



ສາທາລະນະລັດ ປະຊາທິປະໄຕ ປະຊາຊົນລາວ

ສັນຕິພາບ ເອກະລາດ ປະຊາທິປະໄຕ ເອກະພາບ ວັດທະນະຖາວອນ



ກະຊວງ ໂຍທາທິການ ແລະ ຂົນສົ່ງ
ກົມນໍ້າປະປາ

ຕົວຢ່າງ ການນໍາໃຊ້ລາຄາຫົວໜ່ວຍ ເຂົ້າໃນການຈັດຕັ້ງປະຕິບັດໂຄງການຕົວຈິງ ເຫຼັ້ມທີ 3



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ຂະແໜງນໍ້າປະປາ ໄລຍະທີ 2 (MaWaSU2)

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ຄຳນຳ

ປຶ້ມຕົວຢ່າງການນຳໃຊ້ລາຄາຫົວໜ່ວຍ ເຂົ້າໃນການຈັດຕັ້ງປະຕິບັດໂຄງການຕົວຈິງ ເຫລັ້ມ 3 ນີ້ ເປັນການກຳນົດເອົາຂໍ້ມູນລາຄາຫົວໜ່ວຍ ຈາກເຫຼັ້ມທີ 1 ແລະ ເຫຼັ້ມທີ 2 ມານຳໃຊ້ເຂົ້າໃນການຄິດໄລ່ລາຄາໂຄງການທີ່ຈັດຕັ້ງປະຕິບັດຕົວຈິງ ໂດຍເລືອກເອົາໂຄງການກໍ່ສ້າງລະບົບນ້ຳປະປາ ເຂດພັດທະນາກຸ່ມບ້ານນ້ຳຖ້ວມ ເມືອງນ້ຳບາກ ແຂວງຫຼວງພະບາງ ທີ່ໄດ້ດຳເນີນຂະບວນການປະມຸນ ໃນລະຫວ່າງປີ 2020 ແລະ ໄດ້ຜ່ານການຮັບຮອງຜົນການປະມຸນຕາມລະບຽບຫຼັກການ ໃນເດືອນ ເມສາ ປີ 2021. ໂດຍການຍົກຕົວຢ່າງ ເອົາການສົມທຽບລາຄາປະເມີນຈາກບໍລິສັດທີ່ປຶກສາ, ລາຄາທີ່ບໍລິສັດຮັບເໝົາກໍ່ສ້າງສະເໜີປະມຸນ ແລະ ລາຄາຫົວໜ່ວຍ ທີ່ກົມນ້ຳປະປາໄດ້ຄົ້ນຄວ້າສະ ເໜີນຳໃຊ້.

ຕົວຢ່າງການນຳໃຊ້ລາຄາຫົວໜ່ວຍ ວຽກງານກໍ່ສ້າງ ແລະ ປັບປຸງ ລະບົບນ້ຳປະປາ ແມ່ນໄດ້ເອົາ ການປະເມີນລາຄາ ໂຄງການກໍ່ສ້າງລະບົບນ້ຳປະປາທີ່ກໍ່ສ້າງໃໝ່ຄົບຊຸດ ທີ່ລວມມີ ກໍ່ສ້າງ ຫົວງານສົ່ງນ້ຳດິບ, ໂຮງງານຜະລິດນ້ຳປະປາ, ອ່າງເກັບນ້ຳສະອາດ, ທໍ່ສົ່ງ, ທໍ່ແຈກ ພ້ອມດ້ວຍອຸປະກອນ, ສະໜອງອຸປະກອນ ແລະ ຕິດຕັ້ງເຄື່ອງກົນຈັກ, ອຸປະກອນໄຟຟ້າ, ເຄື່ອງຄວບຄຸມ, ຫ້ອງການ, ສາງເກັບມ້ຽນເຄື່ອງ, ຕິດຕັ້ງນ້ຳເຂົ້າເຮືອນ, ກໍ່ສ້າງຫ້ອງນ້ຳສາລະນະ ແລະ ອື່ນໆ ລາຍລະອຽດຢູ່ໃນຕົວຢ່າງໃບປະເມີນລາຄາສະບັບນີ້.

ຕົວຢ່າງການນຳໃຊ້ລາຄາຫົວໜ່ວຍ ວຽກງານກໍ່ສ້າງ ແລະ ປັບປຸງ ລະບົບນ້ຳປະປາ ເຫຼັ້ມນີ້ ອາດຈະບໍ່ທັນຄົບຖ້ວນເທົ່າທີ່ຄວນ, ແຕ່ເຫັນວ່າສາມາດນຳໃຊ້ ເປັນຂໍ້ມູນພື້ນຖານໃນການຄິດໄລ່ເພື່ອກຳນົດລາຄາເບື້ອງຕົ້ນຂອງໂຄງການໃດໜຶ່ງໄດ້. ຫຼັງຈາກນຳໃຊ້ໄປແລ້ວ ຫາກຍັງເຫັນວ່າມີສິ່ງໃດທີ່ບໍ່ທັນຄົບຖ້ວນ ແລະ ແທດເໝາະກັບສະພາບຕົວຈິງ ກະລຸນາແຈ້ງເປັນທາງການ ເຖິງກົມນ້ຳປະປາ ກະຊວງໂຍທາທິການ ແລະ ຂົນສົ່ງ ເພື່ອຈະໄດ້ສັງລວມຂໍ້ມູນ ແລະ ສືບຕໍ່ສະເໜີປັບປຸງຄືນ ໃຫ້ມີຄວາມສົມບູນຂຶ້ນ ໃຫ້ສອດຄ່ອງກັບສະພາບຄວາມເປັນຈິງ ເປັນແຕ່ລະໄລຍະ.

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1. ພາບລວມ

ຕົວຢ່າງການນໍາໃຊ້ລາຄາຫົວໜ່ວຍ ເຂົ້າໃນການຈັດຕັ້ງປະຕິບັດໂຄງການຕົວຈິງ ວຽກງານນໍ້າປະປາ ສະບັບນີ້ ແມ່ນຕົວຢ່າງການນໍາໃຊ້ລາຄາຫົວໜ່ວຍ ໃນວຽກງານກໍ່ສ້າງຕົວຈິງ ຂອງໂຄງການກໍ່ສ້າງລະບົບນໍ້າປະປາ ເຂດພັດທະນາກຸ່ມບ້ານນ້ຳຖ້ວມ ເມືອງນ້ຳບາກ ແຂວງຫຼວງພະບາງ ໂດຍມີການສືບທູດລາຄາຈາກ ບໍລິສັດທີ່ປຶກສາ (ລາຄາກາງ), ບໍລິສັດຮັບໝົກໍ່ສ້າງສະເໜີປະມຸນ ແລະ ລາຄາຫົວໜ່ວຍທີ່ກົມນໍ້າປະປາ ໄດ້ສະເໜີນໍາໃຊ້.

ລວມທັງໝົດມີ 10 ໃບປະເມີນລາຄາ ຄື:

1. ລາຍຈ່າຍທົ່ວໄປຂອງໂຄງການ.
2. ຈັດຊື້ທີ່ສິ່ງ-ທີ່ແຈກ ພ້ອມດ້ວຍອຸປະກອນ.
3. ຄ່າແຮງງານວາງທີ່ສິ່ງ-ທີ່ແຈກ ແລະ ຕິດຕັ້ງອຸປະກອນ.
4. ກໍ່ສ້າງຫົວງານສົ່ງນໍ້າດິບ ແລະ ກໍ່ສ້າງໂຮງງານຜະລິດນໍ້າປະປາ.
5. ສະໜອງອຸປະກອນ ແລະ ຕິດຕັ້ງເຄື່ອງກົນຈັກ.
6. ອ່າງເກັບນໍ້າ.
7. ສະໜອງອຸປະກອນ ແລະ ຕິດຕັ້ງໄຟຟ້າ ແລະ ເຄື່ອງຄວບຄຸມ.
8. ກໍ່ສ້າງຫ້ອງການ ແລະ ສາງ.
9. ກໍ່ສ້າງຫ້ອງນໍ້າສາທາລະນະ.
10. ອັດຕາຄິດໄລ່ລາຍວັນ.

2. ໂຄງການກໍ່ສ້າງລະບົບນໍ້າປະປາ ນ້ຳຖ້ວມ ເມືອງນ້ຳບາກ ແຂວງຫຼວງພະບາງ

ໂຄງການກໍ່ສ້າງລະບົບນໍ້າປະປາ ນ້ຳຖ້ວມ ເມືອງນ້ຳບາກ ແຂວງຫຼວງພະບາງ ກວມເອົາພື້ນທີ່ບໍລິການ 15 ບ້ານ, ປະຊາກອນໃນປີອອກແບບ 21.996 ຄົນ.

ລະບົບນໍ້າປະປາ ແມ່ນນໍາໃຊ້ຈັກສູບສົ່ງນໍ້າດິບຈາກນ້ຳຄານ ໄລຍະຄາວມຍາວທີ່ 670 ແມັດ ຫາ ໂຮງງານຜະລິດນໍ້າປະປາ ເຊິ່ງເປັນລະບົບແບບທົ່ວໄປ ທີ່ມີກໍາລັງການຜະລິດ 9.500 ແມັດກ້ອນຕໍ່ວັນ ແລະ ອ່າງເກັບນໍ້າສໍາລັບບໍລິການ ຂະໜາດ 1.150 ແມັດກ້ອນ.

3. **ສົມທຽບ ລາຄາບໍລິສັດທີ່ປຶກສາ (ລາຄາກາງ), ບໍລິສັດຮັບເໝົາກໍ່ສ້າງສະເໜີປະມຸນ ແລະ ລາຄາຫົວໜ່ວຍທີ່ກົມນໍ້າປະປາ ໄດ້ສະເໜີນໍາໃຊ້**
ຕາຕະລາງສັງລວມມູນຄ່າ ຂອງໂຄງການ (ຫົວໜ່ວຍ: ກີບ)

ລຳດັບ	ລາຍການ	ບໍລິສັດທີ່ປຶກສາ	ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ	ກົມນໍ້າປະປາ	ມູນຄ່າແຕກຕ່າງ ກົມນໍ້າປະປາ ໄດ້ສະເໜີນໍາໃຊ້	
					ບໍລິສັດທີ່ປຶກສາ	ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ
1	ລາຍຈ່າຍທົ່ວໄປຂອງໂຄງການ	850.656.000	243.677.500	830.463.995	(20.192.005)	586.786.495
2	ຈັດຊື້ທີ່ສິ່ງ, ທໍ່ແຈກ ພ້ອມດ້ວຍອຸປະກອນ	18.059.604.120	14.144.049.773	20.930.149.336	2.870.545.216	6.786.099.563
3	ຄ່າແຮງງານວາງທີ່ສິ່ງ, ທໍ່ແຈກ ແລະ ຕິດຕັ້ງອຸປະກອນ.	7.628.643.311	4.151.212.888	8.033.862.787	405.219.476	3.882.649.899
4	ກໍ່ສ້າງຫົວໜ່ວຍສົ່ງນໍ້າດິບ ແລະ ກໍ່ສ້າງໂຮງງານຜະລິດນໍ້າປະປາ	14.974.505.027	14.291.622.914	15.676.128.383	701.623.356	1.384.505.469
5	ສະໜອງອຸປະກອນ ແລະ ຕິດຕັ້ງເຄື່ອງກົນຈັກ.	2.307.683.522	2.224.458.794	2.050.544.741	(257.138.780)	(173.914.053)
6	ອ່າງເກັບນໍ້າ.	3.670.764.342	3.666.563.098	3.552.523.265	(118.241.077)	(114.039.833)
7	ສະໜອງອຸປະກອນ ແລະ ຕິດຕັ້ງໄຟຟ້າ ແລະ ເຄື່ອງຄວບຄຸມ.	4.061.417.843	2.331.709.060	3.391.639.596	(669.778.247)	1.059.930.536
8	ກໍ່ສ້າງຫ້ອງການ ແລະ ສາງ	1.428.802.024	1.534.041.064	1.775.053.861	346.251.837	241.012.797
9	ກໍ່ສ້າງຫ້ອງນໍ້າສາທາລະນະ	1.429.352.140	1.237.143.632	1.520.310.000	90.957.860	283.166.368
10	ອັດຕາຄິດໄລ່ລາຍວັນ	2.577.842	402.289	1.516.082	(1.061.760)	1.113.793
	ລາຍຈ່າຍນໍ້າມັນ, ການສື່ສານ ແລະ ສະໜັບສະໜູນການບໍລິຫານ	318.996.000	318.996.000	318.996.000	-	-
	ລວມ I	54.733.002.170	44.143.877.013	58.081.188.046	3.348.185.876	13.937.311.033
	ເງິນແຮສຸກເສີນ 8 %	4.378.640.174	3.531.510.161	4.646.495.044	267.854.870	1.114.984.883
	ລວມ II	59.111.642.343	47.675.387.174	62.727.683.090	3.616.040.746	15.052.295.916

ລຳດັບ	ລາຍການ	ບໍລິສັດທີ່ປຶກສາ	ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ	ກົມນໍ້າປະປາ	ມູນຄ່າແຕກຕ່າງ ກົມນໍ້າປະປາ ໄດ້ສະເໜີນໍາໃຊ້	
					ບໍລິສັດທີ່ປຶກສາ	ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ
	ອາກອນ	265.830.000	886.100.000	265.830.000	-	(620.270.000)
ລວມທັງໝົດ		59.377.472.343	48.561.487.174	62.993.513.090	3.616.040.746	14.432.025.916
ລວມທັງໝົດ (ລວມອັດຕາເງິນເຟີ້)		64.581.886.418	52.817.884.043	62.993.513.090	(1.588.373.329)	10.175.629.047

ຈາກຕາຕະລາງຂ້າງເທິງເຫັນໄດ້ວ່າ:

1. ມູນຄ່າທັງໝົດ ຂອງກົມນໍ້າປະປາຄິດໄລ່ ເທົ່າກັບ 62.993.513.090 ກີບ (ລາຄາ ປີ 2021) ເຊິ່ງເປັນລາຄາທີ່ໄດ້ລວມ ຄ່າຂົນສົ່ງ, ຄ່າບໍລິຫານ 10% ແລະ ກຳໄລ ບວກ ຄວາມສ່ຽງ 13% ແລະ ອາກອນມູນຄ່າເພີ່ມ 10% ລວມທັງໝົດ 33%;
2. ມູນຄ່າທັງໝົດ ຂອງບໍລິສັດທີ່ປຶກສາ ເທົ່າກັບ 59.377.472.343 ກີບ (ລາຄາ ປີ 2019) ລວມເອົາ ຄ່າຂົນສົ່ງ ປະມານ 5%, ຄ່າບໍລິຫານ, ກຳໄລ ບວກ ຄວາມສ່ຽງ ແລະ ອື່ນໆ 15-20% ແລະ ອາກອນມູນຄ່າເພີ່ມ 10% ລວມທັງໝົດຢູ່ລະຫວ່າງ 30-35%; ແຕ່ບໍ່ລວມເອົາອັດຕາເງິນເຟີ້ ຈຶ່ງເຮັດໃຫ້ລາຄາທີ່ກົມນໍ້າປະປາຄິດໄລ່ ສົມທຽບໃສ່ລາຄາບໍລິສັດທີ່ປຶກສາ ມີສ່ວນຕ່າງ 3.616.040.746 ກີບ;
 - ຖ້າໄລ່ຄືນໂດຍເອົາມູນຄ່າທັງໝົດບໍລິສັດທີ່ປຶກສາ ບວກ ອັດຕາເງິນເຟີ້ 3,32% (ປີ 2019) ແລະ 5,27% (ປີ 2020) ຈະເຮັດໃຫ້ລາຄາ ຂອງບໍລິສັດທີ່ປຶກສາເພີ່ມຂຶ້ນ ຈາກ 59.377.472.343 ກີບ ເປັນ 64.581.886.418 ກີບ ເຊິ່ງເຫັນວ່າມີລາຄາ ສູງກວ່າ ລາຄາຂອງກົມນໍ້າປະປາຄິດໄລ່.

ຕົວຢ່າງ: $59.377.472.343 \times (1+3,32\%) \times (1+5,27\%) = 64.581.886.418$ ກີບ.
3. ມູນຄ່າທັງໝົດບໍລິສັດຮັບເໝົາ ເທົ່າກັບ 48.561.487.174 ກີບ (ລາຄາ ປີ 2019) ຈຶ່ງເຮັດໃຫ້ລາຄາທີ່ກົມນໍ້າປະປາຄິດໄລ່ ສົມທຽບໃສ່ລາຄາບໍລິສັດຮັບເໝົາ ມີສ່ວນຕ່າງ 14.432.025.916 ກີບ.
 - ຖ້າໄລ່ຄືນໂດຍເອົາມູນຄ່າທັງໝົດບໍລິສັດຮັບເໝົາ ບວກ ອັດຕາເງິນເຟີ້ 3,32% (ປີ 2019) ແລະ 5,27% (ປີ 2020) ຈະເຮັດໃຫ້ລາຄາ ຂອງບໍລິສັດຮັບເໝົາເພີ່ມຂຶ້ນ ຈາກ 48.561.487.174 ກີບ ເປັນ 52.817.884.043 ກີບ ເຊິ່ງເຫັນວ່າມີລາຄາແຕກຕ່າງ ລາຄາຂອງກົມນໍ້າປະປາຄິດໄລ່ ປະມານ 10.175.629.047 ກີບ.

ຕົວຢ່າງ: $48.561.487.174 \times (1+3,32\%) \times (1+5,27\%) = 52.817.884.043$ ກີບ.

ໃບຄິດໄລ່ລາຄາທີ 1 ລາຍຈ່າຍທົ່ວໄປຂອງໂຄງການ

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ	ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ	ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ
				ກີບ	ກີບ	ກີບ
101	Performance Security	sum	1	159.498.000	8.861.000	
102	Performance Security, Insurance of the works and construction equipment	sum	1	88.610.000	8.861.000	
103	Other insurance : Third Party	sum	1	88.610.000	8.861.000	
104	Establishment & dis-establishment of the contractor's temporary works such as site office spaces, temporary fencing, temporary accesses, temporary electricity & water connections etc. and clean up of site, including solid waste management.	sum	1	26.583.000	13.291.500	
105	Setting out & surveying.	sum	1	8.861.000	13.291.500	
106	Quality control testing of materials as per Spec.(steel bars, concrete etc...)	sum	1	26.583.000	17.722.000	
107	Training in water quality testing, chemical consumables and power during commissioning	sum	1	13.291.500	17.722.000	
108	Training (O&M aspects, new-technologies, NRW reductions etc.) and on the Job Training for Engineers and PNP staff in HDPE pipe and fittings installation before/during pipe laying works at the construction's site.	sum	1	35.444.000	17.722.000	
109	Provision for maintenance of the works during Defects Liability Period	sum	1	35.444.000	7.088.800	
110	Provision for final documentation, as described in the specification, including construction drawings, As-builts drawings Operators manuals (2 sets) in Lao and English language.	sum	1	26.583.000	10.633.200	
111	Provision of shop drawings where required, as described in the spec or when requested by Engineer.	sum	1	17.722.000	4.430.500	
112	Provision for adequate on-site shelter and shade for Contractor staff and labourers.	sum	1	26.583.000	17.722.000	
113	Project construction signboards, minimum 2x1.65m. Design to be approved by Engineer.	sum	1	22.152.500	7.088.800	
114	Compliance with the provisions of the Environmental Management Plan, including all health and safety provisions such as HIV awareness, etc. - to be paid in 15 equal instalments.	Month	36,00	159.498.000	15.949.800	
115	Survey equipment for Construction Supervisors; including 5m steel tapes (Stanley, power lock 5m), Measuring tape 30m (Stanley, Fibber glass),	LS	1	8.861.000	7.088.800	

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ	ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ	ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ
				ກີບ	ກີບ	ກີບ
	spirit levelling bar (Solo Water level 99-24"), Tablets (1 set each), Water leakage detector (1 set).					
116	Contractor to allow for a factory visit by the Engineer's Representative (or Designate), 1 PNP and 1 PCU staff to witness HDPE pipe manufacture and testing procedures (travel, accommodation, arrange testing).	LS	1,00	26.583.000	7.088.800	
117	Contractor to allow for a factory visit by the Engineer's Representative (or Designate), 1 PNP and 1 PCU staff to witness DCI/uPVC pipe manufacture and testing procedures (travel, accommodation, arrange testing).	LS	1,00	26.583.000	7.088.800	
118	Supply and Delivery motor bike Honda Wave 110i with 4 strokes, gasoline, front wheel with disc brake and rear wheel with drum brake to the sub-project or equivalent.	ea	3,00	53166000	53.166.000	
119	Fuel Consumption, Communication and Contract Administration support for PCU/DWS and Engineer - to be paid in monthly equal installments.	Month	36,00	318996000	318.996.000	
Total for Bill No. 1: General Items				919.680.000,00	263.450.000	830.463.995

ໃບຄິດໄລ່ລາຄາ ທີ 2 ຈັດຊື້ທີ່ສິ່ງ, ທີ່ແຈກ ພ້ອມດ້ວຍອຸປະກອນ

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	All materials supplying rates shall include: (i) All materials supplied under this bill, shall be brand new and from the original source. (ii) Material cost, transport (up to the installation location), insurance, handling, storing etc. (iii) Testing of materials & submission of test reports prior to shipping, third party certification, all other documentation. (iv) Custom clearing and dealing with local authorities for formal approval etc. (v) The contractor is responsible to check the BOQ with tender/design drawings prior to pricing of BOQ. If unit indicates “set”, the rate of the item shall include for all materials, plants & equipment, required to complete such item, as per the specification and tender/design drawings to fulfill the purpose.								
200	Supply of pipes and fittings for the Raw Water Transmission Main from Intake to Pre-sed tank at WTP (NT-PL-01)								
*	Raw Water Transmission main from Intake - Pre-sed (node positions shown on drawings)								
*	DCI pipe =6m PN16								
200-1	DN 350mm PN16 socket & spigot DCI Pipe for Raw transmission pipe with necessary joining materials, fittings and consumables such as lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, couplings, supports, other accessories as per Standard Drawings.	m	677	745.653	504.807.183	691.158	467.913.966	928.053	628.291.560
*	Fittings for DCI								
200-2	DN350mm, double socket DCI 90deg. bend	set	4	1.828.884	7.315.535	1.594.980	6.379.920	3.267.988	13.071.954
200-3	DN350mm, double socket DCI 22.30deg. bend	set	7	1.828.884	12.802.187	1.594.980	11.164.860	3.433.888	24.037.214
200-4	DN350mm, double socket DCI	set	4	1.828.884	7.315.535	1.594.980	6.379.920	3.044.735	12.178.940

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	11.15deg. bend								
200-5	Air valve DN50mm, double orifice type, with necessary fittings connected to DCI .DN350 pipe as shown on the detailed design drawings and Standard Drawings	set	1	3.012.740	3.012.740	2.924.130	2.924.130	3.007.160	3.007.160
200-6	DN100 washout with necessary fittings for connection to DCI DN350mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	1	3.765.925	3.765.925	4.430.500	4.430.500	5.101.753	5.101.753
					539.019.105		499.193.296		685.688.582
201	Supply of pipes and fittings for the Treated Water Transmission Network from CWT (1000m3) to On-ground reservoir 1100m3 (NT-PL-02)								
*	From Node J37 - J33 (node positions shown on drawings)								
*	DCI pipe =6m PN16								
201-1	DN350mm double flanged DCI Pipe for pipe culvert and box culvert crossing including necessary fittings, accessories, consumerbles etc.(lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends couplings, supports, other accessories) as per Standard Drawings.	m	33	1.280.415	42.253.679	691.158	22.808.214	928.053	30.625.733
201-2	DN350mm double flanged DCI Pipe for pipe laying in trench including necessary fittings, accessories, consumerbles etc.(lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends couplings, supports, other accessories) as per	m	8.320	745.653	6.203.834.208	691.158	5.750.434.560	962.710	8.009.747.937

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	Standard Drawings.								
*	Fittings for DCI								
200-3	DN350mm, double socket DCI 90deg. bend	set	5	1.828.884	9.144.419	1.594.980	7.974.900	3.267.988	16.339.942
200-4	DN350mm, double socket DCI 22.30deg. bend	set	9	1.828.884	16.459.954	1.594.980	14.354.820	3.433.888	30.904.990
200-5	DN350mm, double socket DCI 11.15deg. bend	set	38	1.828.884	69.497.585	1.594.980	60.609.240	3.044.735	115.699.932
200-6	Air valve DN50mm, double orifice type, with necessary fittings connected to DN350 HDPE/DCI pipe as shown on the detailed design drawings and Standard Drawings	set	14	3.012.740	42.178.360	2.924.130	40.937.820	3.007.160	42.100.247
200-7	DN100 washout with necessary fittings for connection to DCI DN350 including Surface Box as shown on the detailed design drawings and Standard Drawings	set	11	3.765.925	41.425.175	4.430.500	48.735.500	5.101.753	56.119.287
					6.424.793.380		5.945.855.054		
202	Supply of pipes and fittings for the Distribution Network from CWT (1000m3) at WTP to DMA1 (NT-PL-03)								
*	From Node J35 - J6 (node positions shown on drawings)								
*	DCI pipe =6m								
202-1	DN200mm double flanged DCI Pipe for bridge / box / pipe culvert crossing and pipe bridge including necessary fittings, accessories, consumerbles etc. (lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends couplings, supports, other accessories)	m	3	1.129.778	3.389.333	354.440	1.063.320	479.481	1.438.444

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	as per Standard Drawings.								
202-2	DN100mm double flanged DCI Pipe for bridge / box / pipe culvert crossing and pipe bridge including necessary fittings, accessories, consumerbles etc. (lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends couplings, supports, other accessories) as per Standard Drawings.	m	3	903.822	2.711.466	203.803	611.409	292.759	878.277
*	HDPE, PE100 (L = 6-12 m)								
202-3	HDPE DN 200 PN8	m	840	121.707	102.234.018	106.332	89.318.880	210.915	177.168.725
202-4	HDPE DN 160 PN8	m	340	78.331	26.632.622	70.888	24.101.920	135.740	46.151.564
202-5	HDPE DN 110 PN10	m	2.540	45.696	116.067.164	44.305	112.534.700	79.235	201.257.006
*	Fittings for DCI, HDPE - PE100 and accessories								
202-6	HDPE Reducer DN 200/160	set	1	257.288	257.288	106.332	106.332	137.256	137.256
202-7	HDPE Reducer DN 160/110	set	1	148.302	148.302	70.888	70.888	81.662	81.662
202-8	HDPE Reducer DN 200/110	set	2	197.711	395.422	106.332	212.664	126.483	252.966
202-9	HDPE Equal Tee DN200mm	set	2	200.844	401.689	318.996	637.992	393.680	787.360
202-10	HDPE 90deg. Bend DN200mm	set	3	211.193	633.579	256.969	770.907	330.505	991.515
202-11	HDPE End Cap DN110	set	1	169.467	169.467	132.915	132.915	26.068	26.068
202-12	DN100 Surface Box as shown on Standard Drawings	set	3	2.636.148	7.908.443	265.830	797.490	505.400	1.516.200
202-13	DN150 Surface Box as shown on Standard Drawings	set	1	3.765.925	3.765.925	310.135	310.135	505.400	505.400
202-14	Air valve DN50mm, Double orifice type, with necessary fittings connected to DN200 mm HDPE/DCI DN200mm pipe as shown on the detailed design drawings and Standard Drawings	set	2	3.012.740	6.025.480	2.924.130	5.848.260	3.007.160	6.014.321
202-15	Air valve DN25mm, Single orifice type, with necessary fittings connected to	set	6	1.506.370	9.038.220	2.038.030	12.228.180	198.210	1.189.259

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	DN110 mm HDPE/DCI DN100mm pipe as shown on the detailed design drawings and Standard Drawings								
202-16	DN80 washout with necessary fittings for connection to HDPE DN200mm/DCI DN200mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	1	3.012.740	3.012.740	2.835.520	2.835.520	5.198.960	5.198.960
202-17	DN80 washout with necessary fittings for connection to HDPE DN160mm/DCI DN150mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	2	3.012.740	6.025.480	2.658.300	5.316.600	4.943.660	9.887.321
202-18	DN80 washout with necessary fittings for connection to HDPE DN110mm/DCI DN100mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	5	3.012.740	15.063.700	2.658.300	13.291.500	4.631.427	23.157.137
202-19	DN100 Fire hydrant and Bulk meter with necessary fittings for connection to HDPE DN110mm including Surface Block as shown on the detailed design drawings and Standard drawings	set	1	15.063.700	15.063.700	4.873.550	4.873.550	10.851.169	10.851.169
202-20	RC. Meter Chamber for DMA1 including all fittings and accessories except electro-magnetic flow meter (Electro-magnetic flow meter is included in electrical BOQ) as shown on the standard drawings	set	1	13.557.330	13.557.330	4.873.550	4.873.550	31.934.895	31.934.895
					332.501.366		279.936.712		519.425.504
203	Supply of pipes and fittings for the Distribution Network from CWT (1000m3) at WTP to DMA1 (NT-PL-04)								

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
*	From Node J41 - J51 (node positions shown on drawings)								
*	DCI pipe =6m								
203-1	DN100mm double flanged DCI Pipe for bridge / box / pipe culvert crossing and pipe bridge including necessary fittings, accessories, consumerbles etc. (lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends couplings, supports, other accessories) as per Standard Drawings.	m	3	903.822	2.711.466	203.803	611.409	389.370	1.168.109
*	HDPE, PE100 (L = 6-12 m)								
203-2	HDPE DN 110 PN10	m	1.260	45.696	57.576.625	44.305	55.824.300	79.235	99.836.153
*	Fittings for DCI, HDPE-PE100 and accessories								
203-3	HDPE Reducer DN110/63	set	1	150.637	150.637	17.722	17.722	30.723	30.723
203-4	Surface Box DN100 as shown on Standard Drawings	set	2	2.636.148	5.272.295	265.830	531.660	505.400	1.010.800
203-5	DN25mm, single orifice type air valve with necessary fittings connected to HDPE DN110/DCI DN100 as shown on the detailed design drawings and Standard Drawings	set	3	1.506.370	4.519.110	2.038.030	6.114.090	1.581.920	4.745.760
203-6	DN80 washout with necessary fittings for connection to HDPE DN110mm/DCI DN100mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	3	3.012.740	9.038.220	2.835.520	8.506.560	4.631.427	13.894.282
203-7	DN100 Fire hydrant and Bulk meter with necessary fittings for connection to HDPE DN110mm including Surface Block as shown on the detailed design drawings and Standard drawings	set	1	15.063.700	15.063.700	4.873.550	4.873.550	10.851.169	10.851.169

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
					94.332.053		76.479.291		131.536.995
204	Supply of pipes and fittings for the Distribution Network from CWT (1000m3) at WTP to DMA1 (NT-PL-05)								
*	From Node J3 - J70 (node positions shown on drawings)								
*	DCI pipe =6m								
204-1	DN100mm double flanged DCI Pipe for bridge / box / pipe culvert crossing and pipe bridge including necessary fittings, accessories, consumerbles etc. (lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends couplings, supports, other accessories) as per Standard Drawings.	m	21	903.822	18.980.262	203.803	4.279.863	389.370	8.176.762
*	HDPE, PE100 (L = 6-12 m)								
204-2	HDPE DN 110 PN10	m	1.400	45.696	63.974.028	44.305	62.027.000	79.235	110.929.058
*	Fittings for HDPE, PE100, and DCI								
204-3	HDPE Reducer DN110/63	set	1	150.637	150.637	17.722	17.722	30.723	30.723
204-4	Surface Box DN100 as shown on Standard Drawings	set	2	2.636.148	5.272.295	265.830	531.660	505.400	1.010.800
204-5	DN25mm, single orifice type air valve with necessary fittings connected to HDPE DN110/DCI DN100 as shown on the detailed design drawings and Standard Drawings	set	3	1.506.370	4.519.110	2.038.030	6.114.090	1.581.920	4.745.760
204-6	DN80 washout with necessary fittings for connection to HDPE DN110mm/DCI DN100mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	3	3.012.740	9.038.220	2.835.520	8.506.560	4.631.427	13.894.282

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
204-7	DN100 Fire hydrant and Bulk meter with necessary fittings for connection to HDPE DN110mm including Surface Block as shown on the detailed design drawings and Standard drawings	set	1	15.063.700	15.063.700	4.873.550	4.873.550	10.851.169	10.851.169
					116.998.252		86.350.445		149.638.554
205	Supply of pipes and fittings for the Distribution Network from GR (1100m3) at Ban Namkhan to DMA3 and ER900m3 (NT-PL-06)								
*	From Node J55 - J42 (node positions shown on drawings)								
*	DCI pipe =6m								
205-1	DN400mm double flanged DCI Pipe for bridge / box / pipe culvert crossing and pipe bridge including necessary fittings, accessories, consumerbles etc. (lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends couplings, supports, other accessories) as per Standard Drawings.	m	28	1.462.065	40.937.820	841.795	23.570.260	1.532.556	42.911.580
205-2	DN350mm double flanged DCI Pipe for bridge / box / pipe culvert crossing and pipe bridge including necessary fittings, accessories, consumerbles etc. (lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends couplings, supports, other accessories) as per Standard Drawings.	m	18	1.280.415	23.047.461	691.158	12.440.844	1.280.404	23.047.280
*	HDPE, PE100 (L = 6-12 m)								
205-3	HDPE DN 400 PN8	m	4.310	482.197	2.078.267.212	407.606	1.756.781.860	835.518	3.601.084.186
205-4	HDPE DN 355 PN8	m	1.610	379.018	610.218.587	318.996	513.583.560	656.689	1.057.269.011

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
205-5	HDPE DN 250 PN8	m	280	188.033	52.649.138	159.498	44.659.440	325.884	91.247.473
*	Fittings for HDPE-PE100 and DCI								
205-6	Flange adaptor for DCI DN400mm	set	1	974.710	974.710	1.772.200	1.772.200	2.323.510	2.323.510
205-7	Flange adaptor for DCI DN350mm	set	1	886.100	886.100	1.329.150	1.329.150	2.142.630	2.142.630
205-8	Flange Gate Valve DN400mm	set	1	3.103.122	3.103.122	5.316.600	5.316.600	2.663.990	2.663.990
205-9	Flange Gate Valve DN350	set	1	2.712.972	2.712.972	4.519.110	4.519.110	2.142.630	2.142.630
205-10	Double flange pipe with puddle flange DCI DN400	set	1	4.731.433	4.731.433	4.607.720	4.607.720	4.577.239	4.577.239
205-11	Double flange pipe with puddle flange DCI DN350mm	set	1	3.123.684	3.123.684	4.430.500	4.430.500	4.007.696	4.007.696
205-12	Flange spigot pipe with puddle flange DCI DN400mm	set	1	4.731.433	4.731.433	4.607.720	4.607.720	3.082.843	3.082.843
205-13	Flange spigot pipe with puddle flange DCI DN350mm	set	1	3.123.684	3.123.684	4.430.500	4.430.500	2.560.328	2.560.328
205-14	HDPE Stub flange with Backing ring DN400	set	2	715.526	1.431.052	708.880	1.417.760	1.129.083	2.258.167
205-15	HDPE Stub flange with Backing ring DN355mm	set	2	617.612	1.235.223	531.660	1.063.320	872.925	1.745.851
205-16	HDPE Reducer DN 400/355	set	1	514.651	514.651	708.880	708.880	931.000	931.000
205-17	HDPE Reducer DN 400/160	set	1	514.651	514.651	575.965	575.965	775.390	775.390
205-18	HDPE Reducer DN 355/315	set	1	389.171	389.171	664.575	664.575	902.937	902.937
205-19	HDPE Reducer DN 355/250	set	1	389.171	389.171	531.660	531.660	722.190	722.190
205-20	HDPE Reducer DN 355/160	set	1	389.171	389.171	487.355	487.355	613.795	613.795
205-21	HDPE Equal Tee DN400mm	set	1	433.081	433.081	1.878.532	1.878.532	2.586.052	2.586.052
205-22	HDPE Equal Tee DN355mm	set	2	372.827	745.653	1.400.038	2.800.076	1.444.912	2.889.824
205-23	HDPE 90deg. Bend DN400mm	set	1	1.166.533	1.166.533	1.205.096	1.205.096	1.655.052	1.655.052
205-24	HDPE 90deg. Bend DN250mm	set	1	444.831	444.831	425.328	425.328	578.018	578.018
205-25	HDPE 45deg. Bend DN400mm	set	2	1.166.533	2.333.066	832.934	1.665.868	1.137.948	2.275.896
205-26	HDPE 45deg. Bend DN250mm	set	1	407.970	407.970	265.830	265.830	354.046	354.046
205-27	Air valve DN50mm, double orifice type, with necessary fittings connected to DN	set	6	3.012.740	18.076.440	3.544.400	21.266.400	4.911.684	29.470.104

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	400mm HDPE/DCI pipe as shown on the detailed design drawings and Standard Drawings								
205-28	Air valve DN50mm, double orifice type, with necessary fittings connected to DN 355mm HDPE/DCI pipe as shown on the detailed design drawings and Standard Drawings	set	3	3.012.740	9.038.220	3.544.400	10.633.200	4.621.079	13.863.237
205-29	Air valve DN50mm, double orifice type, with necessary fittings connected to DN 250mm HDPE/DCI pipe as shown on the detailed design drawings and Standard Drawings	set	1	3.012.740	3.012.740	2.924.130	2.924.130	4.009.811	4.009.811
205-30	DN150 washout with necessary fittings for connection to HDPE DN400mm/DCI DN400mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	7	4.519.110	31.633.770	6.645.750	46.520.250	8.868.121	62.076.848
205-31	DN100 washout with necessary fittings for connection to HDPE DN355mm/DCI DN300mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	3	3.765.925	11.297.775	4.430.500	13.291.500	5.465.868	16.397.604
205-32	RC. Valve Chamber as shown on the standard drawings	set	2	7.531.850	15.063.700	4.873.550	9.747.100	7.054.794	14.109.588
205-33	DN100 Fire hydrant and Bulk meter with necessary fittings for connection to HDPE DN400mm including Surface Block as shown on the detailed design drawings and Standard drawings	set	2	15.063.700	30.127.400	5.759.650	11.519.300	10.851.169	21.702.338
205-34	DN100 Fire hydrant and Bulk meter with necessary fittings for connection to HDPE DN355mm including Surface Block as shown on the detailed design	set	2	15.063.700	30.127.400	5.759.650	11.519.300	10.851.169	21.702.338

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	drawings and Standard drawings								
205-35	RC. Meter Chamber for DMA3 including all fittings and accessories except electro-magnetic flow meter (Electro-magnetic flow meter is included in electrical BOQ) as shown on the standard drawings	set	1	20.335.995	20.335.995	4.873.550	4.873.550	31.934.895	31.934.895
					3.007.615.020		2.528.034.439		5.072.615.373
206	Supply of pipes and fittings for the Distribution Network from GR (1100m3) at Ban Namkhan to DMA2 (NT-PL-07)								
*	From Node J7 - J10 (node positions shown on drawings)								
*	DCI pipe =6m								
206-1	DN100mm double flanged DCI Pipe for bridge / box / pipe culvert crossing including necessary fittings, accessories, consumerbles etc. (lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends couplings, supports, other accessories) as per Standard Drawings.	m	9	903.822	8.134.398	203.803	1.834.227	389.370	3.504.326
*	HDPE, PE100 (L = 6-12 m)								
206-2	HDPE DN 160 PN8	m	150	78.331	11.749.686	70.888	10.633.200	180.534	27.080.109
206-3	HDPE DN 110 PN10	m	2.960	45.696	135.259.372	44.305	131.142.800	64.619	191.272.121
*	Fittings for DCI, HDPE-PE100 and accessories								-
206-4	HDPE End Cap DN 110	set	1	169.467	169.467	132.915	132.915	26.068	26.068
206-5	Surface Box DN100 as shown on Standard Drawings	set	1	2.636.148	2.636.148	265.830	265.830	505.400	505.400

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
206-6	HDPE Reducer DN 160/110	set	1	0	0	70.888	70.888	81.662	81.662
206-7	DN25mm, single orifice type air valve with necessary fittings connected to HDPE DN110/DCI DN100 as shown on the detailed design drawings and Standard Drawings	set	6	1.506.370	9.038.220	2.038.030	12.228.180	1.581.920	9.491.520
206-8	DN80 washout with necessary fittings for connection to HDPE DN110mm/DCI DN100mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	5	3.012.740	15.063.700	2.835.520	14.177.600	4.631.427	23.157.137
206-9	DN100 Fire hydrant and Bulk meter with necessary fittings for connection to HDPE DN110mm including Surface Block as shown on the detailed design drawings and Standard drawings	set	2	15.063.700	30.127.400	4.873.550	9.747.100	10.851.169	21.702.338
206-10	RC. Meter Chamber for DMA2 including all fittings and accessories except electro-magnetic flow meter (Electro-magnetic flow meter is included in electrical BOQ) as shown on the standard drawings	set	1	10.167.998	10.167.998	4.873.550	4.873.550	31.934.895	31.934.895
					222.346.388		185.106.290		308.755.575
207	Supply of pipes and fittings for the Distribution Network from GR (1100m3) at Ban Namkhan to DMA3 (NT-PL-08)								
*	From Node J12 - J13 (node positions shown on drawings)								
*	DCI pipe =6m								
207-1	DN150mm double flanged DCI Pipe for bridge / box / pipe culvert crossing and	m	3	1.129.778	3.389.333	248.108	744.324	471.759	1.415.276

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	pipe bridge including necessary fittings, accessories, consumerbles etc. (lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends couplings, supports, other accessories) as per Standard Drawings.								
207-2	DN100mm double flanged DCI Pipe for bridge / box / pipe culvert crossing and pipe bridge including necessary fittings, accessories, consumerbles etc. (lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends couplings, supports, other accessories) as per Standard Drawings.	m	9	903.822	8.134.398	203.803	1.834.227	389.370	3.504.326
*	HDPE, PE100 (L = 6-12 m)								
207-3	HDPE DN 160 PN8	m	690	78.331	54.048.556	70.888	48.912.720	135.740	93.660.526
207-4	HDPE DN 110 PN10	m	1.440	45.696	65.801.857	44.305	63.799.200	79.235	114.098.460
*	Fittings for DCI, HDPE-PE100 and accessories								
207-5	HDPE Reducer DN 160/110	set	1	148.302	148.302	70.888	70.888	81.662	81.662
207-6	HDPE Reducer DN 110/63	set	1	150.637	150.637	17.722	17.722	30.723	30.723
207-7	Surface Box DN100 as shown on Standard Drawings	set	2	2.636.148	5.272.295	265.830	531.660	505.400	1.010.800
207-8	HDPE 90deg. Bend DN250mm	set	2	0	0	425.328	850.656	578.018	1.156.036
207-9	DN50mm, Double orifice type air valve with necessary fittings connected to HDPE DN160/DCI DN150 as shown on the detailed design drawings and Standard Drawings	set	1	3.012.740	3.012.740	2.924.130	2.924.130	3.562.665	3.562.665
207-10	DN25mm, Single orifice type air valve with necessary fittings connected to HDPE DN110/DCI DN100 as shown on	set	3	1.506.370	4.519.110	2.038.030	6.114.090	1.559.443	4.678.329

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	the detailed design drawings and Standard Drawings								
207-11	DN80 washout with necessary fittings for connection to HDPE DN110mm/DCI DN100mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	2	3.012.740	6.025.480	2.658.300	5.316.600	4.631.427	9.262.855
207-12	DN100 Fire hydrant and Bulk meter with necessary fittings for connection to HDPE DN110mm including Surface Block as shown on the detailed design drawings and Standard drawings	set	1	15.063.700	15.063.700	4.873.550	4.873.550	10.851.169	10.851.169
					165.566.407		135.989.767		243.312.827
208	Supply of pipes and fittings for the Distribution Network from ER (900m3) to DMA3 (NT-PL-09)								
*	From Node J36 - J23 (node positions shown on drawings)								
*	DCI pipe =6m								
208-1	DN300mm double flanged DCI Pipe for bridge / box / pipe culvert crossing and pipe bridge including necessary fittings, accessories, consumerbles etc. (lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends couplings, supports, other accessories) as per Standard Drawings.	m	18	1.280.415	23.047.461	540.521	9.729.378	1.022.975	18.413.547
208-2	DN150mm double flanged DCI Pipe for bridge / box / pipe culvert crossing and pipe bridge including necessary fittings, accessories, consumerbles etc. (lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends	m	3	974.710	2.924.130	248.108	744.324	471.759	1.415.276

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	couplings, supports, other accessories) as per Standard Drawings.								
208-3	DN100mm double flanged DCI Pipe for bridge / box / pipe culvert crossing and pipe bridge including necessary fittings, accessories, consumerbles etc. (lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends couplings, supports, other accessories) as per Standard Drawings.	m	3	903.822	2.711.466	203.803	611.409	389.370	1.168.109
*	HDPE, PE100 (L = 6-12 m)								
208-4	HDPE DN 315 PN8	m	2.990	299.007	894.030.670	248.108	741.842.920	518.088	1.549.081.723
208-5	HDPE DN 225 PN8	m	130	153.710	19.982.299	141.776	18.430.880	266.377	34.629.009
208-6	HDPE DN 160 PN8	m	530	78.331	41.515.557	70.888	37.570.640	135.740	71.942.143
208-7	HDPE DN 110 PN10	m	1.440	45.696	65.801.857	44.305	63.799.200	79.235	114.098.460
*	Fittings for DCI, HDPE-PE100and accessories								
208-8	Flange adaptor for DCI DN300mm	set	1	664.575	664.575	841.795	841.795	1.447.040	1.447.040
208-9	Flange Gate Valve DCI DN300mm	set	1	2.325.459	2.325.459	2.481.080	2.481.080	3.679.749	3.679.749
208-10	Double flange pipe with puddle flange DCI DN300	set	1	1.569.110	1.569.110	3.101.350	3.101.350	4.007.696	4.007.696
208-11	Flange spigot pipe with puddle flange DCI DN300	set	1	1.569.110	1.569.110	3.101.350	3.101.350	2.175.212	2.175.212
208-12	HDPE Stub flange with Backing ring DN315mm	set	2	476.992	953.984	531.660	1.063.320	872.925	1.745.851
208-13	HDPE Reducer DN 315/225	set	1	389.171	389.171	363.301	363.301	433.447	433.447
208-14	HDPE Reducer DN 315/160	set	1	389.171	389.171	336.718	336.718	397.005	397.005
208-15	HDPE Reducer DN 225/160	set	1	257.363	257.363	203.803	203.803	234.080	234.080
208-16	HDPE Reducer DN 225/110	set	1	257.363	257.363	203.803	203.803	234.878	234.878
208-17	HDPE Reducer DN 160/110	set	1	148.302	148.302	203.803	203.803	81.662	81.662
208-18	HDPE Equal Tee DN315mm	set	1	320.104	320.104	1.063.320	1.063.320	1.444.912	1.444.912

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
208-19	HDPE Equal Tee DN225mm	set	1	287.340	287.340	522.799	522.799	650.237	650.237
208-20	HDPE Equal Tee DN160mm	set	1	268.360	268.360	159.498	159.498	209.475	209.475
208-21	HDPE Equal Tee DN110mm	set	1	106.696	106.696	159.498	159.498	90.307	90.307
208-22	HDPE End Cap DN 110	set	1	169.467	169.467	132.915	132.915	26.068	26.068
208-23	DN100 Surface Box as shown on Standard Drawings	set	3	2.636.148	7.908.443	265.830	797.490	505.400	1.516.200
208-24	DN150 Surface Box as shown on Standard Drawings	set	1	3.765.925	3.765.925	310.135	310.135	505.400	505.400
208-25	Air valve DN50mm, double orifice type, with necessary fittings connected to DN315mm HDPE/DCI pipe as shown on the detailed design drawings and Standard Drawings	set	4	3.012.740	12.050.960	3.544.400	14.177.600	4.172.470	16.689.880
208-26	Air valve DN50mm, double orifice type, with necessary fittings connected to DN160mm HDPE/DCI pipe as shown on the detailed design drawings and Standard Drawings	set	2	3.012.740	6.025.480	2.924.130	5.848.260	3.562.665	7.125.330
208-27	DN25mm, single orifice type air valve with necessary fittings connected to HDPE DN110/DCI DN100 as shown on the detailed design drawings and Standard Drawings	set	2	1.506.370	3.012.740	2.038.030	4.076.060	1.559.443	3.118.886
208-28	DN100 washout with necessary fittings for connection to HDPE DN315mm/DCI DN300mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	3	3.765.925	11.297.775	4.430.500	13.291.500	5.744.770	17.234.311
208-29	DN80 washout with necessary fittings for connection to HDPE DN110mm/DCI DN100mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	2	3.012.740	6.025.480	2.835.520	5.671.040	4.631.427	9.262.855

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
208-30	RC. Valve Chamber as shown on the standard drawings	set	1	7.531.850	7.531.850	4.873.550	4.873.550	7.054.794	7.054.794
208-31	DN100 Fire hydrant and Bulk meter with necessary fittings for connection to HDPE DN315mm including Surface Block as shown on the detailed design drawings and Standard drawings	set	2	15.063.700	30.127.400	5.759.650	11.519.300	11.555.404	23.110.808
208-32	DN100 Fire hydrant and Bulk meter with necessary fittings for connection to HDPE DN160mm including Surface Block as shown on the detailed design drawings and Standard drawings	set	1	15.063.700	15.063.700	4.873.550	4.873.550	10.851.169	10.851.169
208-33	DN100 Fire hydrant and Bulk meter with necessary fittings for connection to HDPE DN110mm including Surface Block as shown on the detailed design drawings and Standard drawings	set	1	15.063.700	15.063.700	4.873.550	4.873.550	10.851.169	10.851.169
					1.177.562.468		956.979.139		1.914.926.687
209	Supply of pipes and fittings for the Distribution Network from ER (900m3) to DMA3 (NT-PL-10)								
*	From Node J17 - J18 (node positions shown on drawings)								
*	HDPE, PE100 (L = 6-12 m)								
209-1	HDPE DN 160 PN8	m	520	78.331	40.732.245	70.888	36.861.760	135.740	70.584.744
209-2	HDPE DN 110 PN10	m	290	45.696	13.251.763	44.305	12.848.450	79.235	22.978.162
*	Fittings for DCI, HDPE-PE100 and accessories					0	0		-
209-3	HDPE End Cap DN 110	set	1	169.467	169.467	132.915	132.915	26.068	26.068
209-4	HDPE 90deg. Bend DN100mm	set	1	156.911	156.911	106.332	106.332	60.648	60.648
209-5	DN25mm, single orifice type air valve with necessary fittings connected to HDPE DN110/DCI DN100 as shown on	set	1	1.506.370	1.506.370	2.038.030	2.038.030	1.559.443	1.559.443

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	the detailed design drawings and Standard Drawings								
209-6	DN80 washout with necessary fittings for connection to HDPE DN160mm/DCI DN150mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	1	3.012.740	3.012.740	2.835.520	2.835.520	4.714.552	4.714.552
					58.829.495		54.823.007		99.923.618
210	Supply of pipes and fittings for the Distribution Network from ER (900m3) to DMA3 (NT-PL-11)								
*	From Node J20 - J46 (node positions shown on drawings)								
*	HDPE, PE100 (L = 6-12 m)								
210-1	HDPE DN 110 PN10	m	1.100	45.696	50.265.307	44.305	48.735.500	79.235	87.158.546
*	Fittings for DCI, HDPE-PE100 and accessories								
210-2	HDPE Reducer DN 160/110	set	1	148.302	148.302	70.888	70.888	81.662	81.662
210-3	HDPE Equal Tee DN160mm	set	1	268.360	268.360	159.498	159.498	209.475	209.475
210-4	HDPE 90deg. Bend DN100mm	set	1	156.911	156.911	106.332	106.332	60.648	60.648
210-5	HDPE 45deg. Bend DN100mm	set	2	156.911	313.822	106.332	212.664	50.540	101.080
210-6	Surface Box DN100 as shown on Standard Drawings	set	2	2.636.148	5.272.295	265.830	531.660	399.000	798.000
210-7	Surface Box DN150 as shown on Standard Drawings	set	1	3.765.925	3.765.925	310.135	310.135	505.400	505.400
210-8	DN25mm, single orifice type air valve with necessary fittings connected to HDPE DN110/DCI DN100 as shown on the detailed design drawings and Standard Drawings	set	2	1.506.370	3.012.740	2.038.030	4.076.060	1.559.443	3.118.886
210-9	DN80 washout with necessary fittings for connection to HDPE	set	1	3.012.740	3.012.740	2.658.300	2.658.300	4.714.552	4.714.552

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	DN110mm/DCI DN100mm including Surface Box as shown on the detailed design drawings and Standard Drawings								
					66.216.402		56.861.037		96.748.249
211	Supply of pipes and fittings for the Distribution Network from ER (900m3) to DMA3 (NT-PL-12)								
*	From Node J45 - J44 (node positions shown on drawings)								
*	HDPE, PE100 (L = 6-12 m)								
211-1	HDPE DN 160 PN8	m	780	78.331	61.098.367	70.888	55.292.640	135.740	105.877.116
211-2	HDPE DN 110 PN10	m	570	45.696	26.046.568	44.305	25.253.850	79.235	45.163.974
*	Fittings for DCI, HDPE-PE100 and accessories			0	0	0	0		-
211-3	HDPE Equal Tee DN160mm	set	1	268.360	268.360	159.498	159.498	209.475	209.475
211-4	HDPE Reducer DN 160/110	set	1	148.302	148.302	203.803	203.803	81.662	81.662
211-5	HDPE 90deg. Bend DN160mm	set	1	140.770	140.770	132.915	132.915	151.753	151.753
211-6	HDPE 90deg. Bend DN110mm	set	1	156.911	156.911	106.332	106.332	60.648	60.648
211-7	Surface Box DN150 as shown on Standard Drawings	set	2	3.765.925	7.531.850	310.135	620.270	505.400	1.010.800
211-8	DN50mm, single orifice type air valve with necessary fittings connected to HDPE DN160/DCI DN150 as shown on the detailed design drawings and Standard Drawings	set	2	3.012.740	6.025.480	2.924.130	5.848.260	2.469.510	4.939.020
211-9	DN25mm, single orifice type air valve with necessary fittings connected to HDPE DN110/DCI DN100 as shown on the detailed design drawings and Standard Drawings	set	1	1.506.370	1.506.370	2.038.030	2.038.030	1.559.443	1.559.443
211-10	DN80 washout with necessary fittings for connection to HDPE	set	2	3.012.740	6.025.480	2.835.520	5.671.040	4.714.552	9.429.105

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	DN160mm/DCI DN150mm including Surface Box as shown on the detailed design drawings and Standard Drawings								
211-11	DN80 washout with necessary fittings for connection to HDPE DN110mm/DCI DN100mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	1	3.012.740	3.012.740	2.835.520	2.835.520	4.631.427	4.631.427
					111.961.199		98.162.158		173.114.423
212	Supply of pipes and fittings for the Distribution Network from ER (900m3) to DMA3 (NT-PL-13)								
*	From Node J22 - J47 (node positions shown on drawings)								
*	DCI pipe =6m								
212-1	DN150mm double flanged DCI Pipe for bridge / box / pipe culvert crossing and pipe bridge including necessary fittings, accessories, consumerbles etc. (lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends couplings, supports, other accessories) as per Standard Drawings.	m	3	974.710	2.924.130	248.108	744.324	471.759	1.415.276
*	HDPE, PE100 (L = 6-12 m)								
212-2	HDPE DN 160 PN8	m	500	78.331	39.165.620	70.888	35.444.000	135.740	67.869.946
*	Fittings for DCI, HDPE-PE100 and accessories								
212-3	HDPE Reducer DN 160/110	set	1	140.770	140.770	70.888	70.888	151.753	151.753
212-4	HDPE End Cap DN 110	set	1	169.467	169.467	132.915	132.915	26.068	26.068
212-5	Surface Box DN100 as shown on	set	1	2.636.148	2.636.148	265.830	265.830	399.000	399.000

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	Standard Drawings								
212-6	DN50mm, Double orifice type air valve with necessary fittings connected to HDPE DN160/DCI DN150 as shown on the detailed design drawings and Standard Drawings	set	1	3.012.740	3.012.740	2.924.130	2.924.130	3.562.665	3.562.665
					48.048.874		39.582.087		73.424.709
213	Supply of pipe and fittings for Rider mains								
*	HDPE, PE100 (rolls)								
213-1	HDPE DN 63 PE100 PN10	m	101.000	15.184	1.533.605.170	12.405	1.252.945.400	26.372	2.663.544.044
213-2	Additional HDPE DN63 PE100 PN10 pipe for remaining households and others extension villages	m	2.500	15.184	37.960.524	12.405	31.013.500	26.372	65.929.308
*	HDPE-PE100 Fittings and Accessories								
213-3	HDPE Compression coupling DN63 PN10	set	1.800	29.495	53.090.504	44.305	79.749.000	68.996	124.192.006
213-4	HDPE Tee compression coupling DN63/63/63 PN10	set	400	49.585	19.833.872	79.749	31.899.600	116.276	46.510.218
213-5	HDPE Elbow 90deg. Compression coupling DN63 PN10	set	250	33.266	8.316.418	44.305	11.076.250	78.334	19.583.516
213-6	HDPE Pressure Cap DN63 PN10	set	300	15.691	4.707.406	26.583	7.974.900	37.597	11.279.133
					1.657.513.894		1.414.658.650		2.931.038.226
214	Supply fittings for Connections Type of rider mains								
214-1	Cross connection - same side road (Type 1B as shown on Standard drawings, including valves, fittings and chambers).	set	63	2.259.555	142.351.965	2.658.300	167.472.900	2.550.000	160.650.000
214-2	Cross connection - other side road (Type 2B as shown on Standard drawings, including valves, fittings and chambers).	set	52	1.882.963	97.914.050	2.658.300	138.231.600	2.125.000	110.500.000

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	Sub Total:				504.807.183		467.913.966		271.150.000
215	Supply of House Connections - all from DN63mm rider main pipes								
215-1	Materials, required for 1/2" house connection upto the meter including Pipes & fittings, RC box for meter, hard wood dia.50mm and mass concrete box, as per house connection drawing WS-ST-05.	set	3.350	602.548	2.018.535.800	132.915	445.265.250	603.229	2.020.818.306
215-2	Materials, required for 3/4" house connection upto the meter including Pipes & fittings, RC box for meter, hard wood dia.50mm and mass concrete box, as per house connection drawing WS-ST-05-1.	set	1.045	715.526	747.724.409	221.525	231.493.625	861.596	900.367.632
215-3	Materials, required for 1" house connection upto the meter including Pipes & fittings, RC box for meter, hard wood dia.50mm and mass concrete box, as per house connection drawing WS-ST-06.	set	1	753.185	753.185	310.135	310.135	1.345.829	1.345.829
215-4	Materials, required for 1 1/2" house connection upto the meter including Pipes & fittings, RC box for meter, hard wood dia.50mm and mass concrete box, as per house connection drawing WS-ST-06-1.	set	6	1.129.778	6.778.665	443.050	2.658.300	2.298.527	13.791.159
					2.773.792.059		679.727.310		2.936.322.926
216	Provision Sump for quantity variation and items variation under Bill no. 2		6%		1.022.241.743		800.606.591		
	TOTAL for BILL No2: Supply of				18.059.604.120		14.144.049.773		20.930.149.336

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	Pipes and Fittings								

ໃບຄິດໄລ່ລາຄາທີ 3
ຄ່າແຮງງານ ວາງທໍ່ສົ່ງ, ທໍ່ແຈກ ແລະ ຕິດຕັ້ງອຸປະກອນ.

Item No.	Descriptions	Unit	Quan tity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	All pipe laying rates shall include: (i) Site clearance shall include for, but not be limited to, the removal and grubbing out of all trees, shrubs, boulders or other debris up to 10 km distance to approved disposal site; (ii) All labour, plant and equipment including concrete thrust blocks etc., required for the completion of works (iii) Demolition and removal of asphalt/concrete/gravel pavement, loading and disposal of all material up to 10 km distance to approved disposal site; (iv) Reinstatement of asphalt/concrete/gravel road pavement in accordance with specification/local authority requirement; (v) Demolition, removal and reinstate of concrete platform affected during the excavation for pipe laying works to the satisfaction of the authority/house owner. (vi) Excavation for trench in any type of ground (either above water table or below water table) by hand or by mechanical equipment, loading and disposal of surplus excavated material up to 10 km distance (vii) Supply, placing and compaction of pipe bedding, side and initial backfill up to 300 mm above pipe crown. Material quality according to the technical specification.; (viii) Supply, placing and compaction of backfill material between top of initial backfill and temporary reinstatement at surface. Material quality according to specification; (ix) Installation of all temporary and permanent arrangements to connect the new pipelines with the existing network and connect with new/existing rider-mains in accordance with design drawings; (x)Installation of polyethylene sleeve for DI pipelines, incorporation of all required pipe specials, couplings and fittings, special pipe and fitting protection (including flexible couplings, flange adapters, flanged joints, ferrules, saddle straps, nuts, bolts and washers); (xi) Dewatering, protective coatings and supply & installation of geo-textile, consumables etc. if required; (xii) The contractor is responsible to check the BOQ with tender/design drawings prior to pricing of BOQ. If unit indicates “set”, the rate of the item shall include for all the labour, materials, plants & equipment, required to complete such item, as per the specification and tender/design drawings to fulfill the purpose. (xiii) It is assume that rates for items, shown in drawings &/or specified in the technical specification, and not specified in the BOQ, are included in other rates (stated below), furnished in the bid.								
300	Supply of pipes and fittings for the Raw Water Transmission Main from Intake to Pre-sed tank at WTP (NT-PL-01)								
*	Raw Water Transmission main from Intake - Pre-sed (node positions shown								

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	on drawings)								
*	DCI pipe =6m PN16								
300-1	DN 350mm PN16 socket & spigot DCI Pipe for Raw transmission pipe with necessary joining materials, fittings and consumables such as lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, couplings, supports, other accessories as per Standard Drawings.	m	677	354.440	239.955.880	132.915	89.983.455	135.882	91.992.123
*	Facilities on the pipeline								
300-2	Air valve DN50mm, double orifice type, with necessary fittings connected to DCI .DN350 pipe as shown on the detailed design drawings and Standard Drawings	set	1	1.417.760	1.417.760	310.135	310.135	480.000	480.000
300-3	DN100 washout with necessary fittings for connection to DCI DN350mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	1	1.772.200	1.772.200	1.417.760	1.417.760	460.000	460.000
					243.145.840		91.711.350		92.932.123
301	Install of pipes and fittings for the Treated Water Transmission Network from CWT (1000m3) to On-ground reservoir 1100m3 (NT-PL-02)								
*	From Node J37 - J33 (node positions shown on drawings)								
*	DCI pipe =6m PN16								
301-1	DN350mm double flanged DCI Pipe for pipe culvert and box culvert crossing including necessary fittings, accessories, consumerbles etc.(lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends couplings,	m	33	602.548	19.884.084	132.915	4.386.195	135.882	4.484.106

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	supports, other accessories) as per Standard Drawings.								
301-2	DN350mm double flanged DCI Pipe for pipe laying in trench including necessary fittings, accessories, consumerbles etc.(lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends couplings, supports, other accessories) as per Standard Drawings.	m	8.320	354.440	2.948.940.800	132.915	1.105.852.800	135.882	1.130.538.353
*	Facilities on the pipeline							-	-
301-3	Air valve DN50mm, double orifice type, with necessary fittings connected to DN350 HDPE/DCI pipe as shown on the detailed design drawings and Standard Drawings	set	14	1.417.760	19.848.640	310.135	4.341.890	480.000	6.720.000
301-4	DN100 washout with necessary fittings for connection to DCI DN350 including Surface Box as shown on the detailed design drawings and Standard Drawings	set	11	1.772.200	19.494.200	1.417.760	15.595.360	460.000	5.060.000
					3.008.167.724		1.130.176.245		1.146.802.459
302	Install of pipes and fittings for the Distribution Network from CWT (1000m3) at WTP to DMA1 (NT-PL-03)								
*	From Node J35 - J6 (node positions shown on drawings)								
*	DCI pipe =6m								
302-1	DN200mm double flanged DCI Pipe for bridge / box / pipe culvert crossing and pipe bridge including necessary fittings, accessories, consumerbles etc. (lubricants, rubber rings, EPDM gaskets,	m	3	531.660	1.594.980	106.332	318.996	71.441	214.324

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	nuts, bolts, washer, joints, bends couplings, supports, other accessories) as per Standard Drawings.								
302-2	DN100mm double flanged DCI Pipe for bridge / box / pipe culvert crossing and pipe bridge including necessary fittings, accessories, consumerbles etc. (lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends couplings, supports, other accessories) as per Standard Drawings.	m	3	531.660	1.594.980	70.888	212.664	37.395	112.186
*	HDPE, PE100 (L = 6-12 m)							-	-
302-3	HDPE DN 200 PN8	m	840	57.597	48.381.060	31.014	26.051.340	73.846	62.030.911
302-4	HDPE DN 160 PN8	m	340	37.216	12.653.508	17.722	6.025.480	58.206	19.789.946
302-5	HDPE DN 110 PN10	m	2.540	21.266	54.016.656	11.519	29.259.022	38.843	98.660.374
*	Facilities on the pipeline							-	-
302-6	DN100 Surface Box as shown on Standard Drawings	set	3	1.240.540	3.721.620	88.610	265.830	80.000	240.000
302-7	DN150 Surface Box as shown on Standard Drawings	set	1	1.772.200	1.772.200	106.332	106.332	80.000	80.000
302-8	Air valve DN50mm, Double orifice type, with necessary fittings connected to DN200 mm HDPE/DCI DN200mm pipe as shown on the detailed design drawings and Standard Drawings	set	2	1.417.760	2.835.520	310.135	620.270	480.000	960.000
302-9	Air valve DN25mm, Single orifice type, with necessary fittings connected to DN110 mm HDPE/DCI DN100mm pipe as shown on the detailed design drawings and Standard Drawings	set	6	708.880	4.253.280	310.135	1.860.810	180.000	1.080.000
302-10	DN80 washout with necessary fittings for connection to HDPE DN200mm/DCI	set	1	1.417.760	1.417.760	1.417.760	1.417.760	460.000	460.000

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	DN200mm including Surface Box as shown on the detailed design drawings and Standard Drawings								
302-11	DN80 washout with necessary fittings for connection to HDPE DN160mm/DCI DN150mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	2	1.417.760	2.835.520	1.417.760	2.835.520	460.000	920.000
302-12	DN80 washout with necessary fittings for connection to HDPE DN110mm/DCI DN100mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	5	1.417.760	7.088.800	1.417.760	7.088.800	460.000	2.300.000
302-13	DN100 Fire hydrant and Bulk meter with necessary fittings for connection to HDPE DN110mm including Surface Block as shown on the detailed design drawings and Standard drawings	set	1	7.088.800	7.088.800	1.594.980	1.594.980	460.000	460.000
302-14	RC. Meter Chamber for DMA1 including all fittings and accessories except electro-magnetic flow meter (Electro-magnetic flow meter is included in electrical BOQ) as shown on the standard drawings	set	1	3.987.450	3.987.450	1.772.200	1.772.200	4.223.762	4.223.762
					153.242.134		79.430.004		191.531.503
303	Install of pipes and fittings for the Distribution Network from CWT (1000m3) at WTP to DMA1 (NT-PL-04)								
*	From Node J41 - J51 (node positions shown on drawings)								
*	DCI pipe =6m								
303-1	DN100mm double flanged DCI Pipe for bridge / box / pipe culvert crossing and	m	3	531.660	1.594.980	70.888	212.664	37.395	112.186

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	pipe bridge including necessary fittings, accessories, consumerbles etc. (lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends couplings, supports, other accessories) as per Standard Drawings.								
*	HDPE, PE100 (L = 6-12 m)			-	-			-	-
303-2	HDPE DN 110 PN10	m	1.260	21.266	26.795.664	11.519	14.514.318	38.843	48.941.760
*	Facilities on the pipeline							-	-
303-3	Surface Box DN100 as shown on Standard Drawings	set	2	1.240.540	2.481.080	88.610	177.220	80.000	160.000
303-4	DN25mm, single orifice type air valve with necessary fittings connected to HDPE DN110/DCI DN100 as shown on the detailed design drawings and Standard Drawings	set	3	708.880	2.126.640	310.135	930.405	180.000	540.000
303-5	DN80 washout with necessary fittings for connection to HDPE DN110mm/DCI DN100mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	3	1.417.760	4.253.280	1.417.760	4.253.280	460.000	1.380.000
303-6	DN100 Fire hydrant and Bulk meter with necessary fittings for connection to HDPE DN110mm including Surface Block as shown on the detailed design drawings and Standard drawings	set	1	7.088.800	7.088.800	1.594.980	1.594.980	460.000	460.000
					44.340.444		21.682.867		51.593.946
304	Install of pipes and fittings for the Distribution Network from CWT (1000m3) at WTP to DMA1 (NT-PL-05)								
*	From Node J3 - J70 (node positions shown on drawings)								
*	DCI pipe =6m								

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
304-1	DN100mm double flanged DCI Pipe for bridge / box / pipe culvert crossing and pipe bridge including necessary fittings, accessories, consumerbles etc. (lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends couplings, supports, other accessories) as per Standard Drawings.	m	21	531.660	11.164.860	70.888	1.488.648	37.395	785.299
*	HDPE, PE100 (L = 6-12 m)							-	-
304-2	HDPE DN 110 PN10	m	1.400	21.266	29.772.960	11.519	16.127.020	38.843	54.379.734
*	Facilities on the pipeline							-	-
304-3	Surface Box DN100 as shown on Standard Drawings	set	2	1.240.540	2.481.080	88.610	177.220	80.000	160.000
304-4	DN25mm, single orifice type air valve with necessary fittings connected to HDPE DN110/DCI DN100 as shown on the detailed design drawings and Standard Drawings	set	3	708.880	2.126.640	310.135	930.405	180.000	540.000
304-5	DN80 washout with necessary fittings for connection to HDPE DN110mm/DCI DN100mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	3	1.417.760	4.253.280	1.417.760	4.253.280	460.000	1.380.000
304-6	DN100 Fire hydrant and Bulk meter with necessary fittings for connection to HDPE DN110mm including Surface Block as shown on the detailed design drawings and Standard drawings	set	1	7.088.800	7.088.800	1.594.980	1.594.980	460.000	460.000
					56.887.620		24.571.553		57.705.033
305	Install of pipes and fittings for the Distribution Network from GR (1100m3) at Ban Namkhan to DMA3 and ER900m3 (NT-PL-06)								

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
*	From Node J55 - J42 (node positions shown on drawings)								
*	DCI pipe =6m								
305-1	DN400mm double flanged DCI Pipe for bridge / box / pipe culvert crossing and pipe bridge including necessary fittings, accessories, consumerbles etc. (lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends couplings, supports, other accessories) as per Standard Drawings.	m	28	602.548	16.871.344	132.915	3.721.620	160.066	4.481.849
305-2	DN350mm double flanged DCI Pipe for bridge / box / pipe culvert crossing and pipe bridge including necessary fittings, accessories, consumerbles etc. (lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends couplings, supports, other accessories) as per Standard Drawings.	m	18	602.548	10.845.864	132.915	2.392.470	135.882	2.445.876
*	HDPE, PE100 (L = 6-12 m)							-	-
305-3	HDPE DN 400 PN8	m	4.310	226.842	977.687.296	53.166	229.145.460	160.066	689.884.558
305-4	HDPE DN 355 PN8	m	1.610	178.106	286.750.821	53.166	85.597.260	135.882	218.770.042
305-5	HDPE DN 250 PN8	m	280	88.610	24.810.800	31.014	8.683.780	74.947	20.985.067
*	Facilities on the pipeline							-	-
305-6	Air valve DN50mm, double orifice type, with necessary fittings connected to DN 400mm HDPE/DCI pipe as shown on the detailed design drawings and Standard Drawings	set	6	1.417.760	8.506.560	310.135	1.860.810	480.000	2.880.000
305-7	Air valve DN50mm, double orifice type, with necessary fittings connected to DN 355mm HDPE/DCI pipe as shown on the	set	3	1.417.760	4.253.280	310.135	930.405	480.000	1.440.000

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	detailed design drawings and Standard Drawings								
305-8	Air valve DN50mm, double orifice type, with necessary fittings connected to DN 250mm HDPE/DCI pipe as shown on the detailed design drawings and Standard Drawings	set	1	1.417.760	1.417.760	310.135	310.135	480.000	480.000
305-9	DN150 washout with necessary fittings for connection to HDPE DN400mm/DCI DN400mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	7	2.126.640	14.886.480	1.417.760	9.924.320	660.000	4.620.000
305-10	DN100 washout with necessary fittings for connection to HDPE DN355mm/DCI DN300mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	3	1.772.200	5.316.600	1.417.760	4.253.280	460.000	1.380.000
305-11	RC. Valve Chamber as shown on the standard drawings	set	2	3.544.400	7.088.800	1.772.200	3.544.400	4.223.762	8.447.524
305-12	DN100 Fire hydrant and Bulk meter with necessary fittings for connection to HDPE DN400mm including Surface Block as shown on the detailed design drawings and Standard drawings	set	2	7.088.800	14.177.600	1.594.980	3.189.960	460.000	920.000
305-13	DN100 Fire hydrant and Bulk meter with necessary fittings for connection to HDPE DN355mm including Surface Block as shown on the detailed design drawings and Standard drawings	set	2	7.088.800	14.177.600	1.594.980	3.189.960	460.000	920.000
305-14	RC. Meter Chamber for DMA3 including all fittings and accessories except electro-magnetic flow meter (Electro-magnetic flow meter is included in electrical BOQ) as shown on the	set	1	6.202.700	6.202.700	1.772.200	1.772.200	4.223.762	4.223.762

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	standard drawings								
					1.392.993.505		358.516.060		961.878.678
306	Install of pipes and fittings for the Distribution Network from GR (1100m3) at Ban Namkhan to DMA2 (NT-PL-07)								
*	From Node J7 - J10 (node positions shown on drawings)								
*	DCI pipe =6m								
306-1	DN100mm double flanged DCI Pipe for bridge / box / pipe culvert crossing including necessary fittings, accessories, consumerbles etc. (lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends couplings, supports, other accessories) as per Standard Drawings.	m	9	531.660	4.784.940	70.888	637.992	37.395	336.557
*	HDPE, PE100 (L = 6-12 m)							-	-
306-2	HDPE DN 160 PN8	m	150	37.216	5.582.430	17.722	2.658.300	58.206	8.730.858
306-3	HDPE DN 110 PN10	m	2.960	21.266	62.948.544	11.519	34.097.128	38.843	114.974.294
*	Facilities on the pipeline							-	-
306-4	Surface Box DN100 as shown on Standard Drawings	set	1	1.240.540	1.240.540	88.610	88.610	80.000	80.000
306-5	DN25mm, single orifice type air valve with necessary fittings connected to HDPE DN110/DCI DN100 as shown on the detailed design drawings and Standard Drawings	set	6	708.880	4.253.280	310.135	1.860.810	180.000	1.080.000
306-6	DN80 washout with necessary fittings for connection to HDPE DN110mm/DCI DN100mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	5	1.417.760	7.088.800	1.417.760	7.088.800	460.000	2.300.000

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
306-7	DN100 Fire hydrant and Bulk meter with necessary fittings for connection to HDPE DN110mm including Surface Block as shown on the detailed design drawings and Standard drawings	set	2	7.088.800	14.177.600	1.594.980	3.189.960	460.000	920.000
306-8	RC. Meter Chamber for DMA2 including all fittings and accessories except electro-magnetic flow meter (Electro-magnetic flow meter is included in electrical BOQ) as shown on the standard drawings	set	1	3.101.350	3.101.350	1.772.200	1.772.200	4.223.762	4.223.762
					103.177.484		51.393.800		132.645.472
307	Install of pipes and fittings for the Distribution Network from GR (1100m3) at Ban Namkhan to DMA3 (NT-PL-08)								
*	From Node J12 - J13 (node positions shown on drawings)								
*	DCI pipe =6m								
307-1	DN150mm double flanged DCI Pipe for bridge / box / pipe culvert crossing and pipe bridge including necessary fittings, accessories, consumerbles etc. (lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends couplings, supports, other accessories) as per Standard Drawings.	m	3	531.660	1.594.980	88.610	265.830	56.464	169.393
307-2	DN100mm double flanged DCI Pipe for bridge / box / pipe culvert crossing and pipe bridge including necessary fittings, accessories, consumerbles etc. (lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends	m	9	531.660	4.784.940	70.888	637.992	37.395	336.557

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	couplings, supports, other accessories) as per Standard Drawings.								
*	HDPE, PE100 (L = 6-12 m)								
307-3	HDPE DN 160 PN8	m	690	37.216	25.679.178	17.722	12.228.180	58.206	40.161.949
307-4	HDPE DN 110 PN10	m	1.440	21.266	30.623.616	11.519	16.587.792	38.843	55.933.440
*	Facilities on the pipeline								
307-5	Surface Box DN100 as shown on Standard Drawings	set	2	1.240.540	2.481.080	88.610	177.220	80.000	160.000
307-6	DN50mm, Double orifice type air valve with necessary fittings connected to HDPE DN160/DCI DN150 as shown on the detailed design drawings and Standard Drawings	set	1	1.417.760	1.417.760	310.135	310.135	480.000	480.000
307-7	DN25mm, Single orifice type air valve with necessary fittings connected to HDPE DN110/DCI DN100 as shown on the detailed design drawings and Standard Drawings	set	3	708.880	2.126.640	310.135	930.405	180.000	540.000
307-8	DN80 washout with necessary fittings for connection to HDPE DN110mm/DCI DN100mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	2	1.417.760	2.835.520	1.417.760	2.835.520	460.000	920.000
307-9	DN100 Fire hydrant and Bulk meter with necessary fittings for connection to HDPE DN110mm including Surface Block as shown on the detailed design drawings and Standard drawings	set	1	7.088.800	7.088.800	1.594.980	1.594.980	460.000	460.000
					78.632.514		35.568.054		99.161.339
308	Install of pipes and fittings for the Distribution Network from ER (900m3) to DMA3 (NT-PL-09)								
*	From Node J36 - J23 (node positions								

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	shown on drawings)								
*	DCI pipe =6m								
308-1	DN300mm double flanged DCI Pipe for bridge / box / pipe culvert crossing and pipe bridge including necessary fittings, accessories, consumerbles etc. (lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends couplings, supports, other accessories) as per Standard Drawings.	m	18	602.548	10.845.864	132.915	2.392.470	115.877	2.085.789
308-2	DN150mm double flanged DCI Pipe for bridge / box / pipe culvert crossing and pipe bridge including necessary fittings, accessories, consumerbles etc. (lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends couplings, supports, other accessories) as per Standard Drawings.	m	3	531.660	1.594.980	88.610	265.830	56.464	169.393
308-3	DN100mm double flanged DCI Pipe for bridge / box / pipe culvert crossing and pipe bridge including necessary fittings, accessories, consumerbles etc. (lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends couplings, supports, other accessories) as per Standard Drawings.	m	3	531.660	1.594.980	70.888	212.664	37.395	112.186
								-	-
*	HDPE, PE100 (L = 6-12 m)							-	-
308-4	HDPE DN 315 PN8	m	2.990	140.890	421.260.801	53.166	158.966.340	98.357	294.087.292
308-5	HDPE DN 225 PN8	m	130	72.660	9.445.826	31.014	4.031.755	73.846	9.600.022
308-6	HDPE DN 160 PN8	m	530	37.216	19.724.586	17.722	9.392.660	58.206	30.849.033

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
308-7	HDPE DN 110 PN10	m	1.440	21.266	30.623.616	11.519	16.587.792	38.843	55.933.440
*	Facilities on the pipeline							-	-
308-8	DN100 Surface Box as shown on Standard Drawings	set	3	1.240.540	3.721.620	88.610	265.830	80.000	240.000
308-9	DN150 Surface Box as shown on Standard Drawings	set	1	1.772.200	1.772.200	106.332	106.332	80.000	80.000
308-10	Air valve DN50mm, double orifice type, with necessary fittings connected to DN315mm HDPE/DCI pipe as shown on the detailed design drawings and Standard Drawings	set	4	1.417.760	5.671.040	310.135	1.240.540	480.000	1.920.000
308-11	Air valve DN50mm, double orifice type, with necessary fittings connected to DN160mm HDPE/DCI pipe as shown on the detailed design drawings and Standard Drawings	set	2	1.417.760	2.835.520	310.135	620.270	480.000	960.000
308-12	DN25mm, single orifice type air valve with necessary fittings connected to HDPE DN110/DCI DN100 as shown on the detailed design drawings and Standard Drawings	set	2	708.880	1.417.760	310.135	620.270	180.000	360.000
308-13	DN100 washout with necessary fittings for connection to HDPE DN315mm/DCI DN300mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	3	1.772.200	5.316.600	1.417.760	4.253.280	460.000	1.380.000
308-14	DN80 washout with necessary fittings for connection to HDPE DN110mm/DCI DN100mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	2	1.417.760	2.835.520	1.417.760	2.835.520	460.000	920.000
308-15	RC. Valve Chamber as shown on the standard drawings	set	1	3.544.400	3.544.400	1.772.200	1.772.200	4.223.762	4.223.762

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
308-16	DN100 Fire hydrant and Bulk meter with necessary fittings for connection to HDPE DN315mm including Surface Block as shown on the detailed design drawings and Standard drawings	set	2	7.088.800	14.177.600	1.594.980	3.189.960	460.000	920.000
308-17	DN100 Fire hydrant and Bulk meter with necessary fittings for connection to HDPE DN160mm including Surface Block as shown on the detailed design drawings and Standard drawings	set	1	7.088.800	7.088.800	1.594.980	1.594.980	460.000	460.000
308-18	DN100 Fire hydrant and Bulk meter with necessary fittings for connection to HDPE DN110mm including Surface Block as shown on the detailed design drawings and Standard drawings	set	1	7.088.800	7.088.800	1.594.980	1.594.980	460.000	460.000
					550.560.513		209.943.673		404.760.918
309	Install of pipes and fittings for the Distribution Network from ER (900m3) to DMA3 (NT-PL-10)								
*	From Node J17 - J18 (node positions shown on drawings)								
*	HDPE, PE100 (L = 6-12 m)								
309-1	HDPE DN 160 PN8	m	520	37.216	19.352.424	17.722	9.215.440	58.206	30.266.976
309-2	HDPE DN 110 PN10	m	290	21.266	6.167.256	11.519	3.340.597	38.843	11.264.373
*	Facilities on the pipeline			-	-			-	-
309-3	DN25mm, single orifice type air valve with necessary fittings connected to HDPE DN110/DCI DN100 as shown on the detailed design drawings and Standard Drawings	set	1	708.880	708.880	310.135	310.135	180.000	180.000
309-4	DN80 washout with necessary fittings for connection to HDPE DN160mm/DCI DN150mm including Surface Box as	set	1	1.417.760	1.417.760	1.417.760	1.417.760	460.000	460.000

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	shown on the detailed design drawings and Standard Drawings								
					27.646.320		14.283.932		42.171.349
310	Install of pipes and fittings for the Distribution Network from ER (900m3) to DMA3 (NT-PL-11)								
*	From Node J20 - J46 (node positions shown on drawings)								
*	HDPE, PE100 (L = 6-12 m)								
310-1	HDPE DN 110 PN10	m	1.100	21.266	23.393.040	11.519	12.671.230	38.843	42.726.934
*	Facilities on the pipeline			-	-			-	-
310-2	Surface Box DN100 as shown on Standard Drawings	set	2	1.240.540	2.481.080	88.610	177.220	80.000	160.000
310-3	Surface Box DN150 as shown on Standard Drawings	set	1	1.772.200	1.772.200	106.332	106.332	80.000	80.000
310-4	DN25mm, single orifice type air valve with necessary fittings connected to HDPE DN110/DCI DN100 as shown on the detailed design drawings and Standard Drawings	set	2	708.880	1.417.760	310.135	620.270	180.000	360.000
310-5	DN80 washout with necessary fittings for connection to HDPE DN110mm/DCI DN100mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	1	1.417.760	1.417.760	1.417.760	1.417.760	460.000	460.000
					30.481.840		14.992.812		43.786.934
311	Install of pipes and fittings for the Distribution Network from ER (900m3) to DMA3 (NT-PL-12)								
*	From Node J45 - J44 (node positions shown on drawings)								
*	HDPE, PE100 (L = 6-12 m)								

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
311-1	HDPE DN 160 PN8	m	780	37.216	29.028.636	17.722	13.823.160	58.206	45.400.464
311-2	HDPE DN 110 PN10	m	570	21.266	12.121.848	11.519	6.566.001	38.843	22.140.320
*	Facilities on the pipeline							-	-
311-3	Surface Box DN150 as shown on Standard Drawings	set	2	1.772.200	3.544.400	106.332	212.664	80.000	160.000
311-4	DN50mm, single orifice type air valve with necessary fittings connected to HDPE DN160/DCI DN150 as shown on the detailed design drawings and Standard Drawings	set	2	1.417.760	2.835.520	310.135	620.270	480.000	960.000
311-5	DN25mm, single orifice type air valve with necessary fittings connected to HDPE DN110/DCI DN100 as shown on the detailed design drawings and Standard Drawings	set	1	708.880	708.880	310.135	310.135	180.000	180.000
311-6	DN80 washout with necessary fittings for connection to HDPE DN160mm/DCI DN150mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	2	1.417.760	2.835.520	1.417.760	2.835.520	460.000	920.000
311-7	DN80 washout with necessary fittings for connection to HDPE DN110mm/DCI DN100mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	1	1.417.760	1.417.760	1.417.760	1.417.760	460.000	460.000
					52.492.564		25.785.510		70.220.784
312	Install of pipes and fittings for the Distribution Network from ER (900m3) to DMA3 (NT-PL-13)								
*	From Node J22 - J47 (node positions shown on drawings)								
*	DCI pipe =6m								

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
312-1	DN150mm double flanged DCI Pipe for bridge / box / pipe culvert crossing and pipe bridge including necessary fittings, accessories, consumerbles etc. (lubricants, rubber rings, EPDM gaskets, nuts, bolts, washer, joints, bends couplings, supports, other accessories) as per Standard Drawings.	m	3	531.660	1.594.980	88.610	265.830	56.464	169.393
*	HDPE, PE100 (L = 6-12 m)							-	-
312-2	HDPE DN 160 PN8	m	500	37.216	18.608.100	17.722	8.861.000	58.206	29.102.862
*	Facilities on the pipeline							-	-
312-3	Surface Box DN100 as shown on Standard Drawings	set	1	1.240.540	1.240.540	88.610	88.610	80.000	80.000
312-4	DN50mm, Double orifice type air valve with necessary fittings connected to HDPE DN160/DCI DN150 as shown on the detailed design drawings and Standard Drawings	set	1	1.417.760	1.417.760	310.135	310.135	480.000	480.000
					22.861.380		9.525.575		29.832.255
313	Install of pipe and fittings for Rider mains								
*	HDPE, PE100 (rolls)								
313-1	HDPE DN 63 PE100 PN10	m	101.000	7.089	715.968.800	13.292	1.342.441.500	33.455	3.378.946.511
313-2	Additional HDPE DN63 PE100 PN10 pipe for remaining households and others extension villages	m	2.500	7.089	17.722.000	13.292	33.228.750	33.455	83.637.290
					733.690.800		1.375.670.250		3.462.583.800
314	Provisional quantity for excavation in rock for the construction of chambers and for all pipe laying works .	m3	90	88.610	7.974.900	132.915	11.962.350	78.450	7.060.529
					7.974.900		11.962.350		7.060.529
315	Provision for all flushing, disinfection								

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	and pressure testing of all pipelines including rider mains								
315-1	Provision for all flushing of all pipelines as per specification	LS	1	17.722.000	17.722.000	66.457.500	66.457.500	17.722.000	17.722.000
315-2	Provision for disinfection of all pipelines including necessary chemicals & testing.	LS	1	17.722.000	17.722.000	39.874.500	39.874.500	17.722.000	17.722.000
315-3	Provision for pressure testing of all pipelines	LS	1	35.444.000	35.444.000	44.305.000	44.305.000	35.444.000	35.444.000
					70.888.000		150.637.000		70.888.000
316	Install fittings for Connections Type of rider mains								
316-1	Cross connection - same side road (Type 1B as shown on Standard drawings, including valves, fittings and chambers).	set	63	1.063.320	66.989.160	221.525	13.956.075	231.360	14.575.680
316-2	Cross connection - other side road (Type 2B as shown on Standard drawings, including valves, fittings and chambers).	set	52	886.100	46.077.200	487.355	25.342.460	231.360	12.030.720
.	Sub Total:				113.066.360		39.298.535		26.606.400
317	Install of House Connections - all from DN63mm rider main pipes								
317-1	Install 90% of all house connections supplied under BoQ 215-1, including transport of meters from the BPNP storage area to the connection location, excavation, connection into the rider main, laying pipes in granular bedding and backfill compacted in accordance with the technical specifications. Disposal of excess material to a location approved by the Engineer. The meters will be provided by the Employer to the Contractor at no charge. The Contractor becomes responsible for any damage to	set	3.015	88.610	267.159.150	53.166	160.295.490	284.328	857.249.137

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	meters upon pick-up from the BPNP storage area, until tested and accepted by the Engineer.								
317-2	Install 90% of all house connections supplied under BoQ 215-2, including transport of meters from the BPNP storage area to the connection location, excavation, connection into the rider main, laying pipes in granular bedding and backfill compacted in accordance with the technical specifications. Disposal of excess material to a location approved by the Engineer. The meters will be provided by the Employer to the Contractor at no charge. The Contractor becomes responsible for any damage to meters upon pick-up from the BPNP storage area, until tested and accepted by the Engineer.	set	941	132.915	125.073.015	75.319	70.874.709	271.076	255.082.815
317-3	Install 90% of all house connections supplied under BoQ 215-3, including transport of meters from the BPNP storage area to the connection location, excavation, connection into the rider main, laying pipes in granular bedding and backfill compacted in accordance with the technical specifications. Disposal of excess material to a location approved by the Engineer. The meters will be provided by the Employer to the Contractor at no charge. The Contractor becomes responsible for any damage to meters upon pick-up from the BPNP	set	1	177.220	177.220	88.610	88.610	324.096	324.096

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	storage area, until tested and accepted by the Engineer.								
317-4	Install 90% of all house connections supplied under BoQ 215-4, including transport of meters from the BPNP storage area to the connection location, excavation, connection into the rider main, laying pipes in granular bedding and backfill compacted in accordance with the technical specifications. Disposal of excess material to a location approved by the Engineer. The meters will be provided by the Employer to the Contractor at no charge. The Contractor becomes responsible for any damage to meters upon pick-up from the BPNP storage area, until tested and accepted by the Engineer.	set	5	221.525	1.107.625	106.332	531.660	487.763	2.438.816
					506.583.370		271.089.004		1.141.701.265
318	Provision Sump for quantity variation and items variation under Bill no. 3	PS	0,06		431.809.999		234.974.314		
TOTAL for BILL No3: Install of Pipes and Fittings					7.628.643.311		4.151.212.888		8.033.862.787

ໃບຄິດໄລ່ລາຄາ ທີ 4
ກໍ່ສ້າງຫ້ອງນໍ້າດິບ ແລະ ກໍ່ສ້າງໂຮງງານຜະລິດນໍ້າປະປາ

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	Supply & installation rates of all materials, plants, equipment shall include: (i) All materials, plants, equipment, supplied under this bill, shall be brand new and from the original source. (ii) Material cost, transport (up to the installation location), insurance, handling, storing etc. (iii) Testing of materials & submission of test reports prior to shipping, third party certification, all other documentation. (iv) Custom clearing and dealing with local authorities for formal approval etc. (v) The contractor is responsible to check the BOQ with tender/design drawings prior to pricing of BOQ. If unit indicates “set”, the rate of the item shall include for all the labour, materials, plants & equipment, required to complete such item, as per the specification and tender/design drawings. (vi) It is assume that rates for items, shown in drawings &/or specified in the technical specification, and not specified in the BOQ, are included in other rates (stated below), furnished in the bid. (vii) QA/QC of the construction (Concrete mix design and other all tests such as compaction test, concrete cube/cylinder test, testing of reinforcement etc.) (viii) Water retaining structures shall be tested for water-tightness in accordance with BS8007. (ix) Cleaning & disinfection of water retaining structures after the water-tightness testing (x) Provision of water-bars for construction joints (xi) Provision of sheet pile/suitable materials for excavation. (xii) Dewatering, protective coatings and supply & installation of geo-textile, consumables etc. if required; (xiii) Testing & commissioning of plants & equipment after installation								
400	INTAKE WELL FACILITIES								
*	Temporary Work								
400-1	Site clearance for construction around intake and opposite intake before and after construction including fill and cut adjusted of slope as shown on drawings.	LS	1	17.722.000	17.722.000	13.291.500	13.291.500	-	17.722.000
400-2	Construct a cofferdam to enable foundation works of the intake tower and remove the dam when the intake construction is finished.	LS	1	17.722.000	17.722.000	44.305.000	44.305.000	-	17.722.000

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
*	Earth work, Hard Rock and Gabion work								
400-3	Soil excavation for foundation. Rate shall include, supports/sheet piles, dewatering, transportation and disposal of excess material to an approved location off-site upto 10 kms distance.	m3	1.400	26.583	37.216.200	13.292	18.608.100	17.992	25.188.934
400-4	Extra over 400-3 for rock excavation around foundation 1 and 2, alignment of inlet & Drain Pipes Includes transportation and disposal of excess material at an approved location off-site. (Provisional quantity)	m3	5	88.610	443.050	88.610	443.050	78.450	392.252
400-5	Soil filling and compaction around the foundation 1 and side slope as shown on drawings.	m3	600	22.153	13.291.500	26.583	15.949.800	22.800	13.679.738
400-6	Remove top soil, adjust level, back fill with laterite soil, compacted and crushed rock surface on Access road and Parking area.	m2	85	88.610	7.531.850	35.444	3.012.740	17.992	1.529.328
400-7	Supply and construction gabion mattress 300mm thickness including weep holes PVC DN50mm with distance 1000mm between each other on the gabion mattress with cement sand mortar of around the foundation 1, opposite tower intake and side slope as shown on drawings.	m3	71	310.135	22.019.585	575.965	40.893.515	863.505	61.308.850
400-8	Supply and construction stone masonry 300mm thickness with cement sand mortar of inside the	m2	10	88.610	886.100	531.660	5.316.600	158.096	1.580.960

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	retaining wall as shown on drawings.								
400-9	Supply and install Gabion box 1x1x1m as shown on drawings.	set	40	1.329.150	53.166.000	460.772	18.430.880	2.217.200	88.688.000
400-10	Supply and placing geotextile sheet minimum 200g/m2 before gabion box and stone masonry with cement mortar around the foundation 1 and opposite tower intake as shown on drawings.	m2	264	44.305	11.696.520	22.153	5.848.260	24.100	6.362.400
400-11	Sand filling and compaction of under the foundation F1, inlet chamber, retaining wall and side slope as shown on drawings.	m3	8	132.915	1.063.320	48.736	389.884	62.660	501.280
*	Piling Work		.						
400-12.	Mobilization and De-mobilization of drilling rig	LS	1	39.874.500	39.874.500	13.291.500	13.291.500	-	38.439.018
400-13	Construction reinforced concrete – Class A, 10 Bore piles each Ø500mm, depth 7500mm for supported foundation F1 of tower intake as shown on drawing.	m	75	1.107.625	83.071.875	1.417.760	106.332.000	768.308	57.623.100
400-14	Pile Integrity test	pile	10	443.050	4.430.500	310.135	3.101.350		4.271.002
400-15	Pile head preparation	pile	10	443.050	4.430.500	575.965	5.759.650	321.012	3.210.120
400-16	Dynamic Pile Load Test	LS	2	26.583.000	53.166.000	26.583.000	53.166.000		51.252.024
*	Fence and Gate								
400-17	Provide and install fence No.02 as shown on standard drawings.	m	40	354.440	14.177.600	221.525	8.861.000	134.960	5.398.400
400-18	Provide and install main entrance No.02 as shown on standard drawings.	LS	1	7.088.800	7.088.800	8.861.000	8.861.000		7.088.800
*	Concrete works								
*	Lean concrete –Class C (16MPa)								

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
400-19	Lean concrete under footing F1, under inlet chamber and retaining wall as defined in the drawings.	m3	6	664.575	3.987.450	531.660	3.189.960	863.505	5.181.030
*	Reinforced concrete –Class A (30MPa)								
400-20	Reinforced concrete-Class A for Bottom slab	m3	38	2.658.300	101.015.400	2.038.030	77.445.140	3.078.661	116.989.127
400-21	Reinforced concrete-Class A for Wall and landing	m3	76	2.658.300	202.030.800	2.215.250	168.359.000	3.078.661	233.978.255
400-22	Reinforced concrete-Class A for Top slab	m3	8	2.658.300	19.937.250	2.215.250	16.614.375	3.078.661	23.089.959
400-23	Reinforced concrete-Class A for Inlet chamber and stair	m3	23	2.658.300	61.140.900	2.038.030	46.874.690	3.078.661	70.809.209
400-24	Reinforced concrete-Class A for open drain chanel	m3	2	2.658.300	3.987.450	2.038.030	3.057.045	3.078.661	4.617.992
400-25	Reinforced concrete-Class A for support portable crane size 300x3003x300mm	m3	0.05	2.658.300	132.915	2.038.030	101.902	3.078.661	153.933
400-26	Reinforced concrete-Class A for Retaining wall	m3	11	2.658.300	29.241.300	2.215.250	24.367.750	3.078.661	33.865.274
*	Steel Works, Pipes and Grating Work								
400-27	Supply and install steel wide-flange 200x150x9x16mm for Hoist 2000Kg including steel plate, other accessories and 3 coats of anti-corrosive paint as shown on the drawing.	m	28	664.575	18.608.100	797.490	22.329.720	-	17.938.208
400-28	Supply and install steel H- Column 150x100x6x9mm, including galvanized steel bearing plate, J-bolt and required accessories for the	m	25	354.440	8.861.000	398.745	9.968.625	-	8.542.004

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	completion of works and applying 3 coats of anti-corrosive paint as shown on the drawing.								
400-29	Supply and install handrail high=1.10m, made by Stainless steel (grade 304), thickness 1.6mm, Dia 40mm for platform, landing of intake and access bridge including accessories shown on drawings and Standard Drawings	m	24	443.050	10.633.200	265.830	6.379.920	-	10.250.405
400-30	Supply and install Roof Aluzinc sheet with verge, steel column, beam, purlin and rafter including steel plate, other accessories and 3 coats of anti-corrosive paint as shown on the detailed design drawing.	LS	1	8.861.000	8.861.000	13.291.500	13.291.500		8.542.004
400-31	Supply and install steel grating including the frame, accessories and 3 coats of anti-corrosive paint as shown on the drawings.	m2	20	354.440	7.088.800	443.050	8.861.000	221.720	4.434.400
400-32	Supply and install grating, manhole cover 1.09x1.09m, including the frame, accessories and 3 coats of anti-corrosive paint as shown on the drawing.	m2	5	354.440	1.772.200	443.050	2.215.250	221.720	1.108.600
400-33	Supply and install galvanized steel ladder including accessories and 3 coats of anti-corrosive paint as shown on the drawing.	Set	1	1.329.150	1.329.150	4.430.500	4.430.500	-	1.329.150
400-34	Supply and install stainless steel (316) ladder or equivalent including accessories as shown on the drawing.	Set	2	4.430.500	8.861.000	6.202.700	12.405.400	-	8.861.000

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
400-35	Supply and install aluminium cover for inlet chamber size 1290x1090mm including the frame, padlock and accessories as shown on the drawing.	Set	2	2.658.300	5.316.600	2.215.250	4.430.500	-	5.316.600
400-36	Supply and install steel cover for inlet chamber size 1060x430mm including the frame, padlock and accessories as shown on the drawing.	Set	6	886.100	5.316.600	1.329.150	7.974.900	-	5.316.600
400-37	Supply and install Stainless steel inlet screen1@25mm size 2305x600mm, including the frame, plate, eye-bolt, nut and accessories as shown on the drawings.	Set	4	8.861.000	35.444.000	2.658.300	10.633.200	-	35.444.000
400-38	Supply and install Stainless steel inlet screen2@5mm size 2805x600mm, including the frame, plate, eye-bolt, nut and accessories as shown on the drawings.	Set	4	22.152.500	88.610.000	3.101.350	12.405.400	-	88.610.000
*	Pipe & fittings and accessories for Tower Intake								
*	Supply, install pipes, include pipe anchoring, laying & excavation, fittings, valves, concrete support, thrust blocks including bolts, washer, nuts, joints and accessories as shown on the drawings								
*	Inlet								
400-39	Double spigot with puddle flange DN 300mm, length max. upto 1.5m	set	4	1.329.150	5.316.600	2.658.300	10.633.200	4.317.261	17.269.045
400-40	Double flanged pipe with puddle flange DN 300mm, length max. upto	set	5	2.215.250	11.076.250	2.658.300	13.291.500	5.199.220	25.996.100

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	1.5m								
400-41	Flanged spigot DCI pipe DN 300mm	set	5	1.772.200	8.861.000	1.772.200	8.861.000	1.261.562	6.307.810
400-42	Double spigot pipe DCI DN 300mm, length max. upto 3m	set	4	1.772.200	7.088.800	3.544.400	14.177.600	10.802.596	43.210.384
400-43	Gate valve DN 300mm with hand wheel and other accessories as shown on the drawings.	set	2	3.189.960	6.379.920	4.430.500	8.861.000	12.013.043	24.026.086
400-44	Flap valve DN 300mm	set	3	2.658.300	7.974.900	2.481.080	7.443.240	2.481.080	7.443.240
400-45	Flexible coupling pipe DN 300mm	set	9	841.795	7.576.155	2.658.300	23.924.700	2.658.300	23.924.700
400-46	Tee DN 300x300x200mm	set	2	1.178.513	2.357.026	2.835.520	5.671.040	3.852.674	7.705.348
400-47	600mm diameter Inlet Screen with DN 300mm outlet as per detailed design drawings, made from factory to be decided by Engineer including required accessories for the completion of the work.	set	1	10.633.200	10.633.200	10.633.200	10.633.200	10.633.200	10.633.200
*	Outlet pipe								
400-48	Double Flanged DCI pipe DN 200mm	m	18	389.884	7.017.912	531.660	9.569.880	619.980	11.159.647
400-49	Butterfly valve DN200mm, including electrically driven actuator for automatic operation during treatment process. Manually operatorble handle should be available with the actuator.	set	4	18.608.100	74.432.400	4.430.500	17.722.000	1.313.580	5.254.321
400-50	Swing check valve DN 200mm	set	4	2.658.300	10.633.200	1.772.200	7.088.800	4.045.123	16.180.494
400-51	Dismantling joint pipe DN 300mm	set	3	2.038.030	6.114.090	1.949.420	5.848.260	3.332.671	9.998.012
400-52	Dismantling joint DN 200mm	set	9	1.019.015	9.171.135	1.329.150	11.962.350	1.979.068	17.811.615
400-53	Double flanged bend 90° DCI DN 300mm	set	1	1.178.513	1.178.513	1.506.370	1.506.370	2.237.862	2.237.862
400-54	Double flanged bend 90° DCI DN 200mm	set	1	531.660	531.660	708.880	708.880	1.124.979	1.124.979
400-55	Double flanged bend 45° DCI DN	set	2	1.178.513	2.357.026	1.683.590	3.367.180	2.493.617	4.987.234

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	300mm								
400-56	Double flanged bend 45° DCI DN 200mm	set	8	531.660	4.253.280	708.880	5.671.040	998.100	7.984.798
400-57	Tee DN 300x300x300mm	set	1	3.189.960	3.189.960	2.658.300	2.658.300	4.457.015	4.457.015
400-58	Tee DN 300x300x200mm	set	4	3.189.960	12.759.840	2.215.250	8.861.000	3.852.674	15.410.697
400-59	Radial Tee DN 300x300x200mm	set	1	3.189.960	3.189.960	2.215.250	2.215.250	3.852.674	3.852.674
400-60	Double flanged pipe with puddle DN 300mm	set	1	2.215.250	2.215.250	2.658.300	2.658.300	1.261.562	1.261.562
400-61	Double flanged pipe DN 300mm	set	2	2.658.300	5.316.600	3.544.400	7.088.800	866.086	1.732.172
400-62	Double flanged pipe DN 200mm	set	8	1.772.200	14.177.600	2.906.408	23.251.264	643.133	5.145.066
400-63	Double flanged concentric reducer DN 300x200mm	set	2	1.019.015	2.038.030	1.151.930	2.303.860	1.964.108	3.928.217
400-64	Double flanged concentric reducer DN 200x150mm	set	4	478.494	1.913.976	620.270	2.481.080	1.642.133	6.568.534
400-65	Double flanged pipe DN 300mm with 25mm branch for pressure switch	set	1	2.658.300	2.658.300	6.202.700	6.202.700	3.505.178	3.505.178
400-66	Pressure switch included in bill 7	set							
400-67	Double flanged pipe DN 300mm with 25mm branch for Air release valve DN 25mm	set	1	2.658.300	2.658.300	6.202.700	6.202.700	3.505.178	3.505.178
400-68	Air release valve DN25mm	set	1	443.050	443.050	1.329.150	1.329.150	198.210	198.210
400-69	Double flanged pipe DN 200mm with 25mm branch for pressure gauge	set	4	1.772.200	7.088.800	5.316.600	21.266.400	1.843.649	7.374.594
400-70	Pressure gauge	set	1	443.050	443.050	310.135	310.135	150.000	150.000
*	Drain pipe								
400-71	Double Flanged DCI pipe DN 200mm	m	18	389.884	7.017.912	531.660	9.569.880	614.752	11.065.544
400-72	Gate valve DN 200mm	set	2	1.444.343	2.888.686	1.949.420	3.898.840	2.426.605	4.853.210
400-73	Flange adaptor pipe DN 200mm	set	2	575.965	1.151.930	443.050	886.100	653.000	1.306.000
400-74	Dismantling joint DN 200mm	set	1	1.019.015	1.019.015	1.329.150	1.329.150	714.000	714.000
400-75	Tee DN 200x200x200mm	set	1	1.400.038	1.400.038	230.386	230.386	2.122.340	2.122.340
400-76	Double flanged bend 90° DCI DN	set	2	531.660	1.063.320	708.880	1.417.760	1.124.979	2.249.958

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	200mm								
400-77	Double flanged bend 45° DCI DN 200mm	set	2	531.660	1.063.320	708.880	1.417.760	998.100	1.996.199
400-78	Double flanged pipe DN 200mm	set	1	1.772.200	1.772.200	2.906.408	2.906.408	1.993.713	1.993.713
*	Cleanning pipe								
400-79	Double Flanged DCI pipe DN 200mm	m	38	389.884	14.815.592	531.660	20.203.080	614.752	23.360.593
400-80	Gate valve DN 200mm	set	3	1.444.343	4.333.029	1.949.420	5.848.260	2.426.605	7.279.815
400-81	Double flanged pipe with puddle DN 200mm	set	1	1.772.200	1.772.200	3.065.906	3.065.906	1.993.713	1.993.713
400-82	Double flanged pipe DN 200mm	set	10	1.772.200	17.722.000	2.906.408	29.064.080	1.993.713	19.937.129
400-83	Tee DN 200x200x200mm	set	3	1.400.038	4.200.114	230.386	691.158	2.122.340	6.367.019
400-84	Tee DN 200x200x80mm	set	3	1.400.038	4.200.114	974.710	2.924.130	2.821.211	8.463.633
400-85	Double flanged bend 90° DCI DN 200mm	set	7	531.660	3.721.620	708.880	4.962.160	1.124.979	7.874.854
400-86	Double flanged bend 90° DCI DN 80mm	set	1	531.660	531.660	265.830	265.830	387.090	387.090
400-87	Flanged redution Bend 90° DN 200x80mm	set	1	531.660	531.660	1.329.150	1.329.150	1.800.773	1.800.773
400-88	Dismantling joint DN 200mm	set	2	1.019.015	2.038.030	1.329.150	2.658.300	714.000	1.428.000
400-89	Double flanged concentric reducer DN 200x80mm	set	1	478.494	478.494	1.329.150	1.329.150	1.136.202	1.136.202
*	Meter chamber and Fttings								
400-90	Excavation of gravel/sand/clay mixtures down to levels shown on the drawings	m3	7	26.583	172.790	17.722	115.193	17.992	116.949
400-91	Soil back fill and compaction beside and around the By pass chamber as shown on drawing	m3	1	22.153	22.153	26.583	26.583	55.603	55.603
400-92	Lean concrete –Class B 7.5cm thick-under the RC bottom slab.	m3	1	664.575	332.288	531.660	265.830	863.505	431.752
400-93	Reinforced concrete-Class A for	m3	2	2.658.300	5.316.600	2.215.250	4.430.500	3.078.661	6.157.322

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	Slab, Wall and other accessories... decided by Engineer								
400-94	Supply and install steel cover for bay pass chamber Size 1390x1040mm, including accessories, as shown on drawing.	m2	3	354.440	1.063.320	443.050	1.329.150	427.100	1.281.301
400-95	Butterfly valve DN300mm, manually operation	set	1	3.189.960	3.189.960	2.215.250	2.215.250	2.766.728	2.766.728
400-96	Dismantling joint DN 300mm	set	1	2.038.030	2.038.030	1.949.420	1.949.420	3.212.695	3.212.695
400-97	Double flanged pipe DN 300mm	set	1	1.019.015	1.019.015	3.544.400	3.544.400	1.216.146	1.216.146
400-98	Flanged Spigot pipe with Puddle flanged DN 300mm	set	2	2.215.250	4.430.500	2.658.300	5.316.600	1.216.146	2.432.291
400-99	Flanged Spigot pipe DN 300mm	set	2	1.772.200	3.544.400	3.544.400	7.088.800	0	0
400-100	Flanged reducer DN 350/300mm	set	1	2.215.250	2.215.250	1.151.930	1.151.930	1.870.905	1.870.905
400-101	Flexible coupling DN 300mm	set	2	841.795	1.683.590	2.658.300	5.316.600	3.212.695	6.425.389
					1.348.967.627		1.201.715.529		1.518.976.793
401	Water treatment plant area - drainage and earthworks								
*	Site preparation								
401-1	Site clearance for construction around WTP before and after construction offset 2m from boundary of WTP	m2	11.000	4.431	48.735.500	2.658	29.241.300	3.134	34.473.604
*	Earth works for entire WTP site								
401-2	Excavation of gravel/sand/clay mixtures down to levels shown on the drawings for the WTP area and access road inside WTP. Rate shall includes for necessary supports, dewatering if required, transportation and disposal of excess material to an approved location upto 10km distance.	m3	8.000	22.153	177.220.000	17.722	141.776.000	17.992	143.936.768

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
401-3	Extra over rate 401-2 for rock excavation and/or reinforced concrete structures around entire WTP site as required. Includes disposal off-site at an approved location (Provisional quantity).	m3	80	88.610	7.088.800	88.610	7.088.800	82.373	6.589.827
401-4	Soil backfill and compaction around structures and access road of WTP upto RLs as shown on drawings.	m3	2.300	22.153	50.950.750	26.583	61.140.900	55.603	127.885.879
*	Site Surface Drainage								
401-5	Construction RC. Covered drains channel as shown on drawings	m	13	886.100	11.519.300	318.996	4.146.948		11.104.605
*	Site paving inside WTP								
401-6	Supply and laying Gravel pavement 3cm thick for the Road, parking area, walkways etc...inside WTP as shown on the drawings.	m2	2.750	13.292	36.551.625	44.305	121.838.750	74.721	205.481.661
401-7	Grass planting including backfill with top soil (10cm thickness) around all WTP as shown on the drawings.	m2	1.290	26.583	34.292.070	26.583	34.292.070	71.336	92.023.440
*	On-ground Stair inside WTP								
401-8	Construction Reinforced concrete - Class B (25MPa) access stair includes Stainless Steel Hand rail, excavation, backfill and accessories...as shown on the drawings WT-13	set	2	7.088.800	14.177.600	13.291.500	26.583.000		13.667.206
401-9	Construction Reinforced concrete - Class B (25MPa) access stair to Drain Chamber includes excavation, backfill and accessories...as shown	set	2	4.430.500	8.861.000	13.291.500	26.583.000		8.542.004

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	on the drawings WT-02								
*	Access Road No. 2 inside WTP - Gravel Road (73m)								
401-10	Site clearing including removal of stumps <500mm	m2	438	4.431	1.940.559	2.658	1.164.335	3.134	1.372.676
401-11	Soil excavation	m3	16	26.583	425.328	13.292	212.664	17.992	287.874
401-12	Extra over 401-10 for rock excavation and/or reinforced concrete structures around construction site as required. Includes disposal off-site at an approved location (Provisional quantity)	m3	5	88.610	443.050	88.610	443.050	82.373	411.864
401-13	Embankment	m3	1.194	31.014	37.030.119	26.583	31.740.102	55.603	66.389.452
401-14	Sub-base Thickness 150mm, Compacted 95%-CBR>25%.	m3	88	106.332	9.357.216	70.888	6.238.144	87.837	7.729.637
401-15	Aggregate coarse 14mm on top	m3	15	443.050	6.468.530	88.610	1.293.706	232.627	3.396.350
401-16	Construction RC. Opened drains channel along road side as shown on drawings as specified in the drawing No.: WS-ST-39	m	73	531.660	38.811.180	575.965	42.045.445	555.230	40.531.809
					483.872.627		535.828.214		763.824.656
402	Pre-Sedimentation Tank								
*	Earthworks								
402-1	Excavation of gravel/sand/clay mixtures down to levels shown on the drawings. Rate shall includes for necessary supports, dewatering if required, transportation and disposal of excess material to an approved location upto 10km.	m3	327	26.583	8.692.641	17.722	5.795.094	18.810	6.150.729
402-2	Extra over 402-1 for rock excavation		10	88.610	886.100	88.610	886.100	82.373	823.728

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	around entire Pre-sedimentation tank site as required. Includes disposal off-site at an approved location (Provisional quantity)								
402-3	Soil back fill and compaction beside and around the pre-Sedimentation as shown on drawing	m3	31	22.153	686.728	26.583	824.073	22.800	706.786
402-4	Supply and placing geotextile sheet minimum 200g/m2 as shown on drawings.	m2	195	44.305	8.639.475	22.153	4.319.738	21.355	4.164.227
402-5	Sand compaction under the RC bottom slab	m3	140	44.305	6.202.700	48.736	6.822.970	95.228	13.331.889
*	Concrete works								
402-6	Lean concrete –Class C (16MPa) with 7.5cm thick- under the RC bottom slab as shown on drawing.	m3	16	664.575	10.633.200	531.660	8.506.560	863.505	13.816.079
402-7	Reinforced concrete-Class A (30MPa) for Wall, Walkway, Receiving well, Inlet chamber, Drain chamber, Stair and other accessories... decided by Engineer	m3	128	2.658.300	340.262.400	2.215.250	283.552.000	3.078.661	394.068.640
402-8	Reinforced concrete-Class A (30MPa) for Bottom slab including bottom slab of Air compressor room	m3	59	2.658.300	156.839.700	2.038.030	120.243.770	3.078.661	181.641.014
402-9	Reinforced concrete-Class A (30MPa) for Open drain channel decided by Engineer	m3	6	2.658.300	15.949.800	2.038.030	12.228.180	3.078.661	18.471.967
402-10	Reinforced concrete-Class A (30MPa) for Sludge collection pits decided by Engineer	m3	90	2.658.300	239.247.000	1.949.420	175.447.800	3.078.661	277.079.512
*	Cementitious waterproofing &								

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	waterstop								
402-11	Supply, mix and apply cementitious waterproofing coating to interior surface of the tank.	m2	238	39.875	9.490.131	31.014	7.381.213	520.560	123.893.280
402-12	Supply and fix specified Dr. Fixit Water bar WS 2020 (20x20mm) or equivalent around the base of wall at each and every concrete construction joint (3 stages)	m	223	88.610	19.760.030	62.027	13.832.021	67.480	15.048.040
*	Steel works								
402-13	Supply and install handrail high=1.10m, made by Stainless steel (grade 304), thickness 1.6mm, Dia 40mm around the tank, stair & drain chamber including accessories shown on drawings and Standard Drawings	m	90	443.050	39.874.500	310.135	27.912.150	396.204	35.658.360
402-14	Supply and install Stainless steel ladder (AISI grade 316) as shown on drawings	set	1	4.430.500	4.430.500	6.202.700	6.202.700	2.377.224	2.377.224
402-15	Supply and install GI steel ladder as shown on drawings	set	1	1.329.150	1.329.150	5.759.650	5.759.650	2.377.224	2.377.224
402-16	Supply and install Grating Size 1590x1590mm, including accessories, as shown on drawing.	set	1	1.107.625	1.107.625	2.658.300	2.658.300	2.562.601	2.562.601
*	Pipe & fittings for Presedimentation tank								
*	Supply and install pipes, fittings, valves, accessories, concrete support, thrust blocks as shown on the drawings								
*	Inlet								
402-17	Double flanged with puddle DCI DN 350mm	set	1	4.620.657	4.620.657	4.873.550	4.873.550	4.808.717	4.808.717

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
402-18	Gate valve DN 350mm	set	1	6.690.055	6.690.055	5.759.650	5.759.650	9.240.802	9.240.802
402-19	Dismantling joint DCI DN350mm	set	1	3.260.848	3.260.848	2.658.300	2.658.300	3.332.671	3.332.671
402-20	Double flanged pipe DCI DN 350mm	set	1	4.136.758	4.136.758	3.987.450	3.987.450	3.013.306	3.013.306
402-21	Double flanged bend 90° DCI DN 350mm	set	2	3.109.325	6.218.650	2.038.030	4.076.060	3.267.988	6.535.977
402-22	Bellmouth DN 350mm	set	1	1.216.704	1.216.704	3.987.450	3.987.450	3.987.450	3.987.450
402-23	DCI pipe DN 350mm	m	16	746.180	11.938.886	1.027.876	16.446.016	928.053	14.848.840
*	Outlet								
402-24	Flanged spigot pipe with puddle DCI DN 350mm	set	1	4.873.550	4.873.550	4.873.550	4.873.550	3.700.826	3.700.826
402-25	Gate valve DN 350mm	set	1	6.690.055	6.690.055	5.759.650	5.759.650	3.332.671	3.332.671
402-26	Flexible coupling DCI DN 350mm	set	1	939.266	939.266	974.710	974.710	3.332.671	3.332.671
402-27	Flanged spigot pipe DCI DN 350mm	set	2	3.751.482	7.502.963	3.987.450	7.974.900	3.700.826	7.401.653
402-28	Double flanged bend 90° DCI DN 350mm	set	2	3.109.325	6.218.650	2.038.030	4.076.060	3.267.988	6.535.977
402-29	Flanged tee DCI DN 350x350x350mm	set	1	4.866.816	4.866.816	3.189.960	3.189.960	5.657.314	5.657.314
402-30	DCI pipe DN 350mm	m	4	746.180	2.984.722	1.027.876	4.111.504	928.053	3.712.210
*	Drain + Overflow pipes & fittings								
402-31	Flanged spigot pipe with puddle DCI DN 300mm	set	2	1.265.351	2.530.702	2.658.300	5.316.600	1.261.562	2.523.124
402-32	Flanged spigot pipe with puddle DCI DN 250mm	set	1	1.151.930	1.151.930	3.189.960	3.189.960	2.692.584	2.692.584
402-33	Flanged spigot pipe with puddle DCI DN 80mm	set	4	567.104	2.268.416	974.710	3.898.840	728.884	2.915.537
402-34	Double flanged pipe with puddle DCI DN 200mm	set	1	2.052.562	2.052.562	3.065.906	3.065.906	643.133	643.133
402-35	Double flanged pipe with puddle DCI DN 80mm	set	9	801.123	7.210.107	974.710	8.772.390	943.262	8.489.358
402-36	Double flanged bend 90° DCI DN 200mm	set	2	1.144.398	2.288.796	708.880	1.417.760	1.124.979	2.249.958
402-37	Double flanged bend 90° DCI DN	set	12	354.440	4.253.280	265.830	3.189.960	387.090	4.645.075

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	80mm								
402-38	Tee DN 200x200x100mm	set	1	1.583.727	1.583.727	974.710	974.710	2.821.211	2.821.211
402-39	Bellmouth DN 200mm	set	1	553.724	553.724	1.683.590	1.683.590	714.000	714.000
402-40	Double flanged pipe DN 200mm	set	1	3.754.406	3.754.406	2.906.408	2.906.408	1.993.713	1.993.713
402-41	Flanged spigot pipe DN 200mm	set	1	845.339	845.339	2.906.408	2.906.408	1.993.713	1.993.713
402-42	Gate valve DN 250mm (with hand wheel)	set	1	2.634.375	2.634.375	2.481.080	2.481.080	2.767.901	2.767.901
402-43	Gate valve DN 80mm	set	2	567.104	1.134.208	398.745	797.490	865.556	1.731.111
402-44	Butterfly valve DN 100mm	set	1	1.107.625	1.107.625	531.660	531.660	592.284	592.284
402-45	Flanged spigot pipe with puddle DCI DN100mm	set	1	922.873	922.873	797.490	797.490	900.386	900.386
402-46	Double flanged bend 90° DCI DN100mm	set	1	439.328	439.328	398.745	398.745	387.090	387.090
402-47	Flanged spigot pipe DCI DN 80mm	set	9	693.994	6.245.942	265.830	2.392.470	428.755	3.858.799
402-48	Flanged spigot pipe stainless steel (AISI grade 316) DN 80mm	set	18	1.181.467	21.266.400	1.329.150	23.924.700	1.329.150	23.924.700
402-49	Double flanged pipe stainless steel (AISI grade 316) DN 80mm (L=1m)	set	18	1.735.279	31.235.025	1.462.065	26.317.170	1.329.150	23.924.700
402-50	Double flanged pipe stainless steel DN 80mm (L=2.5m)	set	9	2.695.221	24.256.988	3.101.350	27.912.150	3.322.875	29.905.875
402-51	Stainless steel (AISI grade 316) Tee 80x80x80mm	set	9	996.863	8.971.763	753.185	6.778.665	753.185	6.778.665
402-52	Stainless steel (AISI grade 316) Double flanged bend 90°	set	27	738.417	19.937.250	753.185	20.335.995	753.185	20.335.995
402-53	DCI pipe DN 300mm	m	9	685.576	6.170.180	664.575	5.981.175	741.464	6.673.180
402-54	Stainless steel 316 channel C 100*50*50*5mm, Includes pipe support, bolt, nuts...	m	48	1.107.625	53.166.000	708.880	34.026.240	683.360	32.801.295
*	By pass chamber and Fittings								
402-55	Excavation of gravel/sand/clay mixtures down to levels shown on the	m3	9	26.583	225.956	17.722	150.637	17.992	152.933

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	drawings								
402-56	Soil back fill and compaction beside and around the By pass chamber as shown on drawing	m3	2	22.153	33.229	2.658.300	3.987.450	55.603	83.404
402-57	Sand compacted under the RC bottom slab	m3	1	26.583	26.583	48.736	48.736	95.228	95.228
402-58	Lean concrete –Class C (16MPa) 7.5cm thick- under the RC bottom slab.	m3	1	664.575	332.288	531.660	265.830	3.078.661	1.539.331
402-59	Reinforced concrete-Class A (30MPa) for Slab, Wall and other accessories... decided by Engineer	m3	2	2.658.300	5.316.600	2.038.030	4.076.060	3.078.661	6.157.322
402-60	Supply and install Grating for bay pass chamber Size 2015x1000mm, including accessories, as shown on drawing.	set	2	886.100	1.772.200	1.063.320	2.126.640	1.063.320	2.126.640
402-61	Flanged spigot pipe with puddle DN 350mm	set	2	1.616.246	3.232.493	4.873.550	9.747.100	3.700.826	7.401.653
402-62	Flanged spigot pipe with puddle DN 200mm	set	2	845.339	1.690.679	3.065.906	6.131.812	1.993.713	3.987.426
402-63	Flanged spigot pipe DN 200mm	set	2	841.795	1.683.590	2.906.408	5.812.816	1.993.713	3.987.426
402-64	Double flanged bend 90° DCI DN 350mm	set	1	3.109.325	3.109.325	2.038.030	2.038.030	3.267.988	3.267.988
402-65	Double flanged bend 90° DCI DN 200mm	set	2	1.144.398	2.288.796	708.880	1.417.760	1.124.979	2.249.958
402-66	Gate valve DN 350mm with hand wheel and other accessories...	set	1	7.088.800	7.088.800	5.759.650	5.759.650	9.240.802	9.240.802
402-67	Gate valve DN 200mm with hand wheel and other accessories...	set	1	1.683.590	1.683.590	1.949.420	1.949.420	2.767.901	2.767.901
402-68	Flexible coupling pipe DN 350mm	set	2	939.266	1.878.532	974.710	1.949.420	1.698.000	3.396.000
402-69	Flexible coupling pipe DN 200mm	set	1	974.710	974.710	389.884	389.884	749.000	749.000
402-70	Dismantling joint DCI DN 350mm	set	2	3.260.848	6.521.696	2.658.300	5.316.600	1.611.000	3.222.000

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
402-71	Dismantling joint DCI DN 200mm	set	1	1.860.810	1.860.810	1.329.150	1.329.150	653.000	653.000
402-72	Tee DN 350x350x350mm	set	1	4.866.816	4.866.816	3.189.960	3.189.960	5.657.314	5.657.314
402-73	Tee DN 350x350x200mm	set	1	3.967.690	3.967.690	2.746.910	2.746.910	4.608.100	4.608.100
402-74	DCI pipe DN 350mm	m	42	702.287	29.496.071	1.027.876	43.170.792	962.710	40.433.824
402-75	Supply and install HDPE DN63	m	24	56.037	1.344.887	17.722	425.328	26.372	632.921
402-76	Bend 90° HDPE DN63mm	set	1	48.381	48.381	53.166	53.166	38.969	38.969
402-77	Bend 45° HDPE DN63mm	set	1	35.444	35.444	53.166	53.166	38.969	38.969
*	Air compressor room								
402-78	Brick masonry 10cm thickness around the building	m²	11	44.305	487.355	115.193	1.267.123	120.822	1.329.038
402-79	Cement mortar plastering (15mm th.) on brick walls, beam, columns...Including preparation of edge line	m²	22	44.305	974.710	132.915	2.924.130	51.883	1.141.429
402-80	Supply and install Aluminum door including accessories as shown on drawing	set	1	2.658.300	2.658.300	7.088.800	7.088.800	3.969.342	3.969.342
402-81	Supply and install Type W5: 25x25cm for Exhaust fan frame	set	1	221.525	221.525	221.525	221.525	144.600	144.600
*	Pipes connecting with flexible hose box								
402-82	Double flanged DCI DN80mm to flexible hose box	m	36	150.637	5.422.932	398.745	14.354.820	429.620	15.466.324
402-83	Double flanged GSP DN50mm to flexible hose box	m	12	88.610	1.063.320	106.332	1.275.984	68.195	818.345
402-84	Double flanged bend 90° DCI DN80mm	set	2	132.915	265.830	265.830	531.660	373.154	746.309
402-85	Double flanged bend 90° GSP DN50mm	set	4	443.050	1.772.200	106.332	425.328	24.886	99.543
402-86	Double flanged bend 45° GSP DN50mm	set	4	443.050	1.772.200	106.332	425.328	24.886	99.543
402-87	Double flanged pipe GSP DN50mm	set	4	97.471	389.884	106.332	425.328	17.918	71.671

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
402-88	DN 80mm DCI tee	set	1	106.332	106.332	443.050	443.050	644.780	644.780
402-89	DN 80/50mm DCI Reducer	set	2	124.054	248.108	443.050	886.100	301.724	603.448
402-90	Supply & install flexible hose valves, 20m of dia 50mm flexible pipe, mounted hose storage box and water connection to sludge cleaning station as shown on drawings	LS	2	4.652.025	9.304.050	7.088.800	14.177.600	-	8.969.104
402-91	DN350mm butterfly valve (before the presedimentation tank in raw-water main), including electrically driven actuator for automatic operation during treatment process. Manually operatorble handle should be available with the actuator.	set	1	33.228.750	33.228.750	7.531.850	7.531.850	7.260.703	7.260.703
					1.279.565.864		1.099.233.633		1.501.728.064
403	Receiving well-Flocculation-Sedimentation-Filtration tanks, Chemical room & Chambers								
*	Earth works								
403-1	Excavation of gravel/sand/clay mixtures down to levels shown on the drawings. Rate shall includes for necessary supports, dewatering if required, transportation and disposal of excess material to an approved location upto 10km.	m3	1.915	26.583	50.906.445	17.722	33.937.630	17.992	34.454.864
403-2	Extra over 403-1 for rock excavation around entire structure as required. Rate to include for transportation and disposal of excess materials upto 10 km at an approved location off-site. (Provisional quantity)	m3	5	88.610	443.050	88.610	443.050	82.373	411.864

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
403-3	Earth filling around the structure (except working space) with selected excavated materials with 95% compaction.	m3	160	26.583	4.253.280	70.888	11.342.080	55.603	8.896.409
*	Concrete works								
403-4	Lean concrete - Class C (16MPa) under bottom slab as shown on drawings	m3	68	664.575	45.191.100	531.660	36.152.880	863.505	58.718.335
403-5	Reinforced concrete -Class A (30MPa) for bottom slab, drain, valve chamber etc...using formwork class F1	m3	321	2.658.300	853.314.300	2.038.030	654.207.630	3.078.661	988.250.261
403-6	Reinforced concrete-Class A (30MPa) with waterproofing admixture for wall of receiving well, inlet chamber, Sedimentation tanks, drain chamber, trough, stair, nozzle slab, beam support nozzle slabs...using formwork class F2	m3	680	2.658.300	1.807.644.000	2.215.250	1.506.370.000	3.078.661	2.093.489.649
403-7	Epoxy concrete for bottom slab of flocculation tank to match upstream and downstream levels of each channel	m3	6	2.658.300	15.949.800	3.101.350	18.608.100	3.078.661	18.471.967
403-8	Compacted sand under lean concrete of flocculation tank as shown on drawings FF-06 & 27.	m3	110	42.090	4.629.873	48.736	5.360.905	95.228	10.475.055
403-9	Supply and placing geotextile sheet minimum 200g/m2 before gabion box and stone masonry with cement mortar around the foundation 1 and opposite tower intake as shown on drawings.	m2	240	44.305	10.633.200	22.153	5.316.600	21.355	5.125.202

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
*	Supply, mix and apply cementitious waterproofing & water stop								
403-10	Cementitious waterproofing coating to interior surface of the tank up to top of the wall (2 coats)	m2	1.290	13.292	17.146.035	31.014	40.007.415	29.897	38.567.148
403-11	Fix specified Water stop to be named Dr. Fixit Water bar WS 2020 (20x20mm) or equivalent around the basin wall at each concrete joint (3-4 stages)	m	675	159.498	107.661.150	62.027	41.868.225	67.480	45.549.000
*	Supply and installation of Flocculation, Sedimentation tanks								
403-12	Stainless steel (AISI grade 316) L= 50x50x3.2mm with Stainless bolts into concrete channel walls for baffles to slide inside the flocculation tanks as per drawings FF-15 & 16.	m	1.751	88.610	155.156.110	159.498	279.280.998	153.756	269.226.882
403-13	Aluminum baffles 700mm of wide & 20mm thickness, made from Aluminum Hollow Plate (3mm thickness) -ref. Drg. - FF-16&18 in accordance with the drawings. Aluminum handles to be fixed to top of baffle. Length of baffle varies with channel depth as per detailed design drawings	set	116	886.100	102.787.600	3.101.350	359.756.600	3.101.350	359.756.600
403-14	Stainless steel Pipe DN200mm (AISI grade 316) for Water collector with 6mm thickness of length 4500mm. Adjustable to supports at wall connection. Including other	set	12	6.645.750	79.749.000	22.152.500	265.830.000	22.152.500	265.830.000

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	accessories in compliance with the drawings(Ref. drawings No. FF-19)								
403-15	Stainless steel H-Beam 100x100x6x9mm (AISI grade 316) with Stainless plates, bolts into concrete walls to support tube settlers (Lamella BT48 Tup-set) modules as per drawings No. FF-19	set	16	4.873.550	77.976.800	3.633.010	58.128.160	3.633.010	58.128.160
403-16	Tube settlers in each settling tank. Named Lamella BT48 Tup-set modules or approved equivalent shall be installed under the launders. Adjustable to supports at wall connection. Including other accessories in compliance with the drawings No. FF-20	m3	72	1.329.150	95.698.800	1.329.150	95.698.800	1.329.150	95.698.800
*	Supply and install Steel works, handrails, ladder, Lamella Tube settler and grating...								
403-17	Supply and install handrail high=1.10m, made by Stainless steel (grade 304), thickness 1.6mm, Dia 40mm around the tank, stair & drain chamber including accessories shown on drawings and Standard Drawings	m	378	443.050	167.472.900	310.135	117.231.030	398.087	150.476.742
403-18	Stainless steel ladder (AISI grade 316) for Sedimentation tanks as shown on drawings No.: WS-ST-55	set	4	3.101.350	12.405.400	6.202.700	24.810.800	6.202.700	24.810.800
403-19	Galvanize steel ladder (BS 729) for Outside ladder and Drain chamber as shown on drawings No.: WS-ST-58&60	set	3	1.772.200	5.316.600	5.759.650	17.278.950	1.402.281	4.206.843

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
403-20	Galvanized steel grating over the Receiving well, inlet chamber, outlet channel, drain chamber including manhole etc...as shown on drawings No.: FF-02, No.: WS-ST-66	m2	50	487.355	24.367.750	443.050	22.152.500	427.100	21.355.010
403-21	Galvanized steel CI manhole cover DN600mm with accessory as shown on drawing No.: WS-ST-14	set	1	1.772.200	1.772.200	4.430.500	4.430.500	4.430.500	4.430.500
403-22	Supply and install steel H-beam 100x100x6x8mm for Hoist , including galvanized steel plate, pin, J-bolt and other accessories for jointing and 3 coats of anti-corrosive paint as shown on the drawing No.: FF-21.	LS	1	1.329.150	1.329.150	3.101.350	3.101.350	3.101.350	1.329.150
*	Supply & install pipes (1.50-4.00m length, both ends flanged, including bolts, washer, nuts, joints and accessories), fittings, valves, concrete supports & thrust blocks as shown on the drawings								
*	Inlet Pipes for Receiving well								
403-23	DN300mm DCI Double flanged pipe	m	7	735.463	5.148.241	620.270	4.341.890	741.464	5.190.251
403-24	DN350x300mm DCI concentric reducer	set	1	1.944.015	1.944.015	1.151.930	1.151.930	2.266.854	2.266.854
403-25	DN300x200mm DCI concentric reducer	set	2	1.352.897	2.705.795	1.151.930	2.303.860	1.964.108	3.928.217
403-26	DN300mm DCI all flanged tee	set	1	2.558.348	2.558.348	2.658.300	2.658.300	4.457.015	4.457.015
403-27	DN300x300x200mm DCI all flanged reduced tee	set	2	2.211.440	4.422.880	2.215.250	4.430.500	3.852.674	7.705.348
403-28	DN200mm DCI Double flanged pipe	set	2	876.176	1.752.351	2.906.408	5.812.816	1.993.713	3.987.426
403-29	DN200mm DCI Double flanged 90° bend	set	6	762.932	4.577.593	708.880	4.253.280	1.124.979	6.749.874

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
403-30	Double flanged spigot pipe DCI DN200 (L=1.1m) with accessories	set	8	1.745.351	13.962.809	2.906.408	23.251.264	2.332.430	18.659.438
403-31	DN200mm DCI Flexible coupling	set	4	664.575	2.658.300	389.884	1.559.536	455.000	1.820.000
403-32	DN200mm DCI Dismantling joint	set	4	1.019.015	4.076.060	1.329.150	5.316.600	653.000	2.612.000
403-33	DN200mm DCI flanged gate valve including extension and hand spindle	set	4	1.949.420	7.797.680	2.658.300	10.633.200	2.426.605	9.706.420
403-34	DN200mm DCI flanged pipe with puddle flange	set	4	2.392.470	9.569.880	3.065.906	12.263.624	2.332.430	9.329.719
403-35	DN200mm DCI Bell mouth including necessary concrete support (300x300mm) for 90° bend	set	4	753.185	3.012.740	2.038.030	8.152.120	1.629.271	6.517.083
*	Drain Pipes for Receiving well								
403-36	DN100mm DCI Double flanged pipe from Reviewing well to Chamber № 2	m	24	345.579	8.293.896	310.135	7.443.240	282.220	6.773.275
403-37	DN100 DCI Double flanged pipe	set	3	487.355	1.462.065	443.050	1.329.150	237.000	711.000
403-38	DN100mm DCI Flanged spigot pipe	set	8	496.216	3.969.728	443.050	3.544.400	900.386	7.203.092
403-39	DN100mm DCI Flanged spigot pipe with puddle flange	set	5	496.216	2.481.080	974.710	4.873.550	1.140.490	5.702.448
403-40	DN100mm, DCI Knife-edge gate valve including manual operating wheel.	set	4	3.544.400	14.177.600	717.741	2.870.964	592.284	2.369.136
403-41	DN100mm Dismantling Joint	set	4	540.521	2.162.084	478.494	1.913.976	575.901	2.303.602
403-42	DN100mm DCI Double flanged 90° bend	set	6	443.050	2.658.300	292.413	1.754.478	431.981	2.591.887
403-43	DN100mm DCI all flanged Tee	set	3	1.063.320	3.189.960	620.270	1.860.810	831.786	2.495.357
*	Drain pipes to Chamber A1 and A2								
*	Drain pipe from Flocculation tanks								
403-44	DN200mm DCI Double flanged pipe	m	9	516.419	4.647.772	531.660	4.784.940	462.220	4.159.979
403-45	DN200mm DCI Double flanged pipe (L=0.5m)	set	2	1.745.351	3.490.702	2.906.408	5.812.816	1.526.369	3.052.739
403-46	DN200mm DCI Flanged spigot pipe	set	4	2.392.470	9.569.880	3.065.906	12.263.624	2.383.880	9.535.522

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	with puddle flange								
403-47	DN200mm DCI Double Flanged pipe with puddle flange	set	4	2.392.470	9.569.880	3.065.906	12.263.624	2.383.880	9.535.522
403-48	DN200mm DCI Flexible Coupling	set	4	664.575	2.658.300	389.884	1.559.536	455.000	1.820.000
403-49	DN200mm DCI Double flanged 90° bend	set	4	762.932	3.051.728	708.880	2.835.520	1.124.979	4.499.916
403-50	Knife-edge gate valve DN200mm, including spindle extension with headstock	set	4	2.436.775	9.747.100	2.658.300	10.633.200	1.313.580	5.254.321
*	Drain pipe from Sedimentation tanks								
403-51	DN300mm DCI Double flanged pipe	m	9	646.853	5.821.677	620.270	5.582.430	741.464	6.673.180
403-52	DN300mm DCI Flanged spigot pipe with puddle flange	set	4	2.449.978	9.799.912	2.658.300	10.633.200	2.560.895	10.243.581
403-53	DN300mm DCI Double Flanged pipe with puddle flange	set	2	2.449.978	4.899.956	2.658.300	5.316.600	2.560.895	5.121.790
403-54	Knife-edge gate valve DN300mm, including spindle extension with headstock	set	4	3.996.311	15.985.244	3.987.450	15.949.800	2.766.728	11.066.914
*	Drain pipe from Sedimentation tanks from Chamber A1&A2 to Chamber № 3 & 6								
403-55	DN300mm DCI Double flanged pipe	m	54	646.853	34.930.062	620.270	33.494.580	741.464	40.039.080
403-56	DN300mm DCI Flanged spigot pipe with puddle flange	set	4	2.449.978	9.799.912	2.658.300	10.633.200	4.268.159	17.072.634
403-57	DN300mm DCI Double flanged 90° bend	set	2	2.449.978	4.899.956	1.506.370	3.012.740	2.237.862	4.475.723
*	Drain pipe from Sediment to Chamber No. 3 and Open drainage								
403-58	DN100mm All DCI Double flanged pipe from Sedimentation tank	m	15	256.083	3.841.244	310.135	4.652.025	282.220	4.233.297
403-59	DN100mm DCI Flanged spigot pipe with puddle flange	set	6	487.355	2.924.130	974.710	5.848.260	1.114.764	6.688.585

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທໍ່ປັກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
403-60	DN100mm DCI flange pipe with puddle flange	set	2	487.355	974.710	974.710	1.949.420	1.114.764	2.229.528
403-61	DN100mm DCI Double flanged 90° bend	set	3	443.050	1.329.150	292.413	877.239	387.090	1.161.269
403-62	DN100mm DCI Double flanged 45° bend	set	8	443.050	3.544.400	292.413	2.339.304	374.993	2.999.944
403-63	DN100mm Dismantling Joint	set	4	540.521	2.162.084	478.494	1.913.976	237.000	948.000
403-64	DN100mm, Knife-edge gate valve including spindle extension with headstock	set	4	3.544.400	14.177.600	717.741	2.870.964	592.284	2.369.136
*	Drain pipe and Over flow pipe from Collectors channel to Chamber No. 4								
403-65	DN100mm All DCI Double flanged pipe from sedimentation tank	m	12	256.083	3.072.995	310.135	3.721.620	282.220	3.386.637
403-66	DN100mm DCI double flanged pipe	set	4	317.490	1.269.959	443.050	1.772.200	711.734	2.846.936
403-67	DN100mm DCI Double flange pipe with puddle flange	set	1	487.355	487.355	974.710	974.710	1.071.889	1.071.889
403-68	DN100mm DCI flange spigot pipe with puddle flange	set	3	487.355	1.462.065	974.710	2.924.130	1.071.889	3.215.666
403-69	DN100mm DCI Double flanged 90° bend	set	4	443.050	1.772.200	292.413	1.169.652	387.090	1.548.358
403-70	DN100mm DCI Double flanged 45° bend	set	2	443.050	886.100	292.413	584.826	374.993	749.986
403-71	DN100mm Dismantling Joint	set	1	540.521	540.521	478.494	478.494	218.000	218.000
403-72	DN100mm, gate valve including handwheel	set	1	863.948	863.948	513.938	513.938	1.025.062	1.025.062
*	Rapid sand filter tanks, Chemical room & Outlet chamber								
403-73	Penstock size 400x500mm Ref. drawing FF-12 for details.	set	4	7.531.850	30.127.400	10.633.200	42.532.800	7.531.850	30.127.400
403-74	DN200mm DCI Flanged spigot pipe	set	4	1.056.674	4.226.697	3.065.906	12.263.624	1.629.271	6.517.083

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	with puddle flange to connect with short pipe install with filter channel as shown on drawings FF-10								
403-75	Mark filter media top level by non-toxic epoxy paint (100mm high) round the inside of the filter	m	90	17.722	1.594.980	177.220	15.949.800	17.084	1.537.561
403-76	Supply and install Stainless steel (316) adjust level plate (5400mm length x100mm width x 5mm thickness) including all accessories as shown on Drawing FF-10	set	4	305.705	1.222.818	3.544.400	14.177.600	305.705	1.222.818
*	Supply and install Filter media of Filter tanks								
403-77	Undertrain for the filter including specified filter nozzles. Ref. drawing FF-13 & 15.	m2	98	7.531.850	738.121.300	8.861.000	868.378.000	4.676.018	458.249.745
403-78	Appropriate filter sand in compliance with the specification and specified volume. Note: Necessary approval shall be obtained prior to place filter media.	m3	100	1.772.200	177.220.000	1.151.930	115.193.000	1.735.200	173.520.000
403-79	Filler Air ventilation SS(316) DN25mm including female threaded tee, femal threaded ball valve, female threaded elbow 90 degree, male threaded pipe and accessories in accordance with design drawings.	set	4	2.658.300	10.633.200	13.291.500	53.166.000	2.658.300	10.633.200
403-80	Supply Mass concrete for backwash channel in filter room, Outlet chamber and other components	m3	16	664.575	10.633.200	2.658.300	42.532.800	863.505	13.816.079
*	Supply and install Steel works, door & Roof structure covering the Air blower, Chlorine tanks...								

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
403-81	Completed door (D1) for access to Pipe gallery room	set	1	3.544.400	3.544.400	3.189.960	3.189.960	3.944.688	3.944.688
403-82	Completed door (D2) for access to Chemical room	set	1	2.215.250	2.215.250	3.189.960	3.189.960	2.322.276	2.322.276
403-83	Removable aluminium (900x1750mm) and (850x1750) cover 5mm thickness with lifting hooks and support by aluminium L 50x50x3mm frame including accessories.	set	4	886.100	3.544.400	4.430.500	17.722.000	2.322.276	9.289.104
403-84	Blue Fiber cement roofing, gable end tile and capping tile (Blue colour), including hard wood roof structure, Eave shera plank 20x200mm & painting for Air blower, Chemical & spindles room as shown on drawing No.FF-24	m2	215	443.050	95.255.750	310.135	66.679.025	427.100	91.826.543
403-85	Reinforced concrete-Class A for Column , Roof beam, Post column and lintel column as shown on drawing No. FF-24&39	m3	7	2.658.300	18.608.100	2.215.250	15.506.750	3.078.661	21.550.629
403-86	Brick masonry wall with plastering both side & cement block for ventilation include Emulsion paint (3 coats) with primer coat for wall's Air blower, Chemical & spindle room as shown on drwaing.	m2	130	212.664	27.646.320	115.193	14.975.090	186.201	24.206.104
403-87	Column, Roof beam edge preparation & plastering Air blower, Chemical & spindle room for blower, spindles & Chemical room	m2	65	106.332	6.911.580	97.471	6.335.615	102.504	6.662.763
403-88	Exhaust fan frame 25x25cm made of hard wood or by complete set from	set	2	132.915	265.830	221.525	443.050	128.130	256.260

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	manufactory in compliance with the drawings.								
*	Supply & install pipes (0.50-4.00m length, both ends flanged, including bolts, washer, nuts, joints and accessories), fittings, valves, concrete supports & thrust blocks for Pipe gallery room as shown on drawings								
*	Cross wash pipe from collector channel to filter tanks								
403-89	DN250mm DCI Flanged spigot pipe with puddle flange	set	4	1.329.150	5.316.600	886.100	3.544.400	2.238.104	8.952.414
403-90	Butterfly Valve DN250mm including spindle extension with head stock, gavalnized steel grating for support head stock, and other accessories as shown on drawing No.:FF-12	set	4	3.367.180	13.468.720	2.658.300	10.633.200	1.844.877	7.379.506
403-91	DN250mm DCI flanged 90° bend	set	8	3.101.350	24.810.800	1.329.150	10.633.200	1.814.482	14.515.859
403-92	DN250mm DCI Double flanged pipe (L=0.8-1m)	set	4	2.835.520	11.342.080	1.772.200	7.088.800	2.692.584	10.770.337
403-93	DN250mm stainless steel (AISI grade 316) flanged tee with holes on one side the pipe as shown on drawing No.: FF-11	set	4	15.949.800	63.799.200	7.088.800	28.355.200	15.949.800	63.799.200
403-94	DN250mm stainless steel (AISI grade 316) double flanged pipe for cross wash with holes on one side the pipe, length = 3-3.5m as shown on drawing No.: FF-11	Nos	4	8.063.510	32.254.040	22.152.500	88.610.000	8.063.510	32.254.040
403-95	DN250mm stainless steel (AISI grade 316) double flanged pipe for cross	Nos	4	4.031.755	16.127.020	13.291.500	53.166.000	4.031.755	16.127.020

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	wash with holes on one side the pipe, length = 1-1.5m as shown on drawing No.: FF-11								
403-96	DN250mm stainless steel (AISI grade 316) blind flanged	set	8	708.880	5.671.040	2.215.250	17.722.000	708.880	5.671.040
403-97	Stainless steel (AISI grade 316) L 50x50x5mm with strip clamp 50x5mm for support cross-wash pipe @1000mm, including other accessories as shown on drawing No.: FF-11	set	20	443.050	8.861.000	708.880	14.177.600	443.050	8.861.000
*	Backwash drain pipe								
403-98	DN250mm DCI flanged spigot pipe	set	4	930.405	3.721.620	1.772.200	7.088.800	1.577.820	6.311.280
403-99	DN250mm DCI Flanged spigot with puddle flange	set	4	1.863.025	7.452.101	886.100	3.544.400	2.238.104	8.952.414
403-100	Butterfly Valve DN250mm including spindle extension with head stock	set	4	2.941.852	11.767.408	2.658.300	10.633.200	1.844.877	7.379.506
403-101	DN250mm DCI flanged 90° bend	set	4	1.230.527	4.922.108	1.329.150	5.316.600	1.814.482	7.257.930
*	Outlet / Backwash water pipeline (from Pump house)								
403-102	DN350mm DCI Double flanged pipe	m	45	744.324	33.494.580	1.027.876	46.254.420	928.053	41.762.364
403-103	DN350mm DCI Double flanged pipe with puddle flange	set	4	2.449.978	9.799.912	4.873.550	19.494.200	3.700.826	14.803.305
403-104	DN350mm DCI flanged spigot pipe with puddle flange	set	4	2.449.978	9.799.912	4.873.550	19.494.200	3.700.826	14.803.305
403-105	DN250mm DCI flanged spigot pipe with puddle flange	set	4	1.444.343	5.777.372	886.100	3.544.400	2.238.104	8.952.414
403-106	DN350mm DCI flanged tee	set	3	3.244.721	9.734.163	3.189.960	9.569.880	5.657.314	16.971.942
403-107	DN350x350x250mm DCI flanged reducing tee	set	4	2.645.097	10.580.388	3.189.960	12.759.840	4.766.740	19.066.960
403-108	DN350x350x100mm DCI flanged reducing tee	set	2	2.636.236	5.272.472	2.791.215	5.582.430	4.381.473	8.762.945

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
403-109	DN350mm DCI dismantling joint	set	5	2.536.461	12.682.306	2.658.300	13.291.500	1.697.000	8.485.000
403-110	DN250mm DCI dismantling joint	set	4	1.701.312	6.805.248	1.683.590	6.734.360	704.000	2.816.000
403-111	DN100mm DCI dismantling joint	set	1	540.521	540.521	478.494	478.494	237.000	237.000
403-112	Butterfly valve DN350mm, including electrically driven actuator for automatic operation during backwashing. Manually operatorble handle should be available with the actuator.	set	5	33.228.750	166.143.750	7.531.850	37.659.250	4.143.642	20.718.210
403-113	Butterfly valve DN250mm, including electrically driven actuator for automatic operation during backwashing. Manually operatorble handle should be available with the actuator.	set	4	23.924.700	95.698.800	6.202.700	24.810.800	1.844.877	7.379.506
403-114	DN350mm DCI flanged 90° bend	set	2	2.072.854	4.145.707	2.038.030	4.076.060	3.267.988	6.535.977
403-115	DN100mm DCI flanged 90° bend	set	2	443.050	886.100	398.745	797.490	431.981	863.962
403-116	DN350mm DCI flanged 45° bend	set	2	1.712.388	3.424.777	398.745	797.490	3.433.888	6.867.776
403-117	DN350mm DCI flanged spigot pipe (L=0.5-1.5m)	set	6	2.757.809	16.546.854	3.987.450	23.924.700	3.700.826	22.204.958
403-118	DN100mm DCI Double flanged pipe	set	1	317.490	317.490	443.050	443.050	237.000	237.000
403-119	DN100mm DCI gate valve	set	1	863.948	863.948	513.938	513.938	1.025.062	1.025.062
403-120	DN350mm DCI flanged adaptor	set	4	886.100	3.544.400	1.772.200	7.088.800	1.611.000	6.444.000
403-121	Concrete support pipe DN350mm	set	7	310.135	2.170.945	265.830	1.860.810	1.181.508	8.270.556
*	Outlet pipe (from filter tank to Clear water tank)							0	0
403-122	DN350mm DCI Double flanged pipe	m	35	770.907	26.981.745	1.027.876	35.975.660	928.053	32.481.838
403-123	DN250mm DCI Double flanged pipe	m	10	582.611	5.826.108	708.880	7.088.800	607.580	6.075.801
403-124	DN350mm DCI Double flanged pipe with puddle flange	set	1	2.449.978	2.449.978	4.873.550	4.873.550	3.700.826	3.700.826
403-125	DN250mm DCI Double flanged pipe	set	4	1.863.025	7.452.101	886.100	3.544.400	2.238.104	8.952.414

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	with puddle flange								
403-126	DN350mm DCI Double flanged pipe (L=0.5-1.5m)	set	8	2.757.809	22.062.472	3.987.450	31.899.600	3.700.826	29.606.611
403-127	DN350mm DCI dismantling joint	set	2	2.536.461	5.072.923	2.658.300	5.316.600	1.697.000	3.394.000
403-128	DN250mm DCI dismantling joint	set	5	1.701.312	8.506.560	1.683.590	8.417.950	704.000	3.520.000
403-129	DN350mm DCI flanged 90° bend	set	2	2.072.854	4.145.707	2.038.030	4.076.060	3.267.988	6.535.977
403-130	DN250mm DCI flanged 90° bend	set	5	1.230.527	6.152.635	1.329.150	6.645.750	1.814.482	9.072.412
403-131	DN350mm DCI Flexible coupling	set	1	939.266	939.266	974.710	974.710	1.697.000	1.697.000
403-132	DN250mm DCI Flexible coupling	set	1	534.230	534.230	575.965	575.965	704.000	704.000
403-133	DN350x250mm DCI flanged concentric reducer	set	1	1.467.293	1.467.293	1.417.760	1.417.760	2.530.077	2.530.077
403-134	DN350x350x250mm DCI flanged reducing tee	set	3	2.645.097	7.935.291	3.189.960	9.569.880	4.766.740	14.300.220
403-135	Concrete support pipe DN350mm	set	5	310.135	1.550.675	310.135	1.550.675	1.181.508	5.907.540
403-136	Concrete support pipe DN250mm	set	7	221.525	1.550.675	265.830	1.860.810	1.181.508	8.270.556
*	Under drain pipe (from filter tank to drain channel)								
403-137	DN100mm DCI Flanged spigot pipe with puddle flange	set	4	538.306	2.153.223	974.710	3.898.840	771.760	3.087.039
403-138	DN100mm DCI Knife-edge gate valve with spindle extension including handwheel	set	4	1.036.737	4.146.948	717.741	2.870.964	1.383.951	5.535.802
403-139	DN100mm DCI Double flanged 90° bend	set	4	203.803	815.212	292.413	1.169.652	431.981	1.727.925
403-140	DN100mm DCI flanged spigot pipe	set	4	320.059	1.280.237	443.050	1.772.200	411.605	1.646.421
*	Air blower pipes connected to filter tanks								
403-141	DN150mm DCI double flanged Pipeline from Air blower to filter tanks including pipe hanger for support pipe as shown on drawing	m	30	382.175	11.465.248	443.050	13.291.500	341.936	10.258.094
403-142	DN150mm stainless steel (AISI grade	Nos	4	3.101.350	12.405.400	15.949.800	63.799.200	3.101.350	12.405.400

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	316) double flanged pipe for air coupling with holes on two sides the pipe, length =4.8m-5m as shown on drawing No.: FF-21								
403-143	DN150mm Stainless steel (AISI grade 316) double flanged with puddle	set	4	305.173	1.220.691	7.088.800	28.355.200	305.173	1.220.691
403-144	DN150mm DCI Double flanged 90° bend	set	13	345.579	4.492.527	443.050	5.759.650	431.981	5.615.756
403-145	DN 150mm Dismantling Joint	set	8	779.768	6.238.144	797.490	6.379.920	237.000	1.896.000
403-146	Butterfly valve DN150mm, including electrically driven actuator for automatic operation during backwashing. Manually operatorble handle should be available with the actuator.	set	4	15.949.800	63.799.200	3.101.350	12.405.400	592.284	2.369.136
403-147	DN150mm DCI flanged tee	set	3	799.882	2.399.647	735.463	2.206.389	831.786	2.495.357
403-148	DN150mm DCI Double flanged pipe with 25mm branch for PG	set	1	725.982	725.982	4.430.500	4.430.500	1.264.829	1.264.829
403-149	DN150mm DCI Gate Valve	set	1	1.439.913	1.439.913	930.405	930.405	1.888.272	1.888.272
403-150	DN150mm DCI Double flanged pipe (L=0.5-1.5m)	set	13	812.111	10.557.438	886.100	11.519.300	1.414.893	18.393.610
403-151	DN150mm stainless steel blind flanged (AISI grade 316)	set	4	443.050	1.772.200	1.772.200	7.088.800	443.050	1.772.200
403-152	Concrete support pipe with clamp DN150mm	set	1	177.220	177.220	265.830	265.830	1.181.508	1.181.508
*	Other pipe connections								
*	Small Drain pipe from Outlet chamber to drain channel								
403-153	DN80mm DCI flanged spigot pipe	set	4	392.720	1.570.878	265.830	1.063.320	428.755	1.715.022
403-154	DN80mm DCI Flange spigot pipe with puddle flange	set	4	487.355	1.949.420	974.710	3.898.840	651.708	2.606.833

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
403-155	DN80mm DCI flanged 90° bend	set	8	664.575	5.316.600	265.830	2.126.640	387.090	3.096.717
403-156	DN80mm Butterfly Valve	set	4	797.490	3.189.960	443.050	1.772.200	384.691	1.538.765
*	Drain pipe (from chamber No.: B to Chamber No.:04)								
403-157	DN300mm DCI double flanged pipe	m	9	646.853	5.821.677	620.270	5.582.430	741.464	6.673.180
403-158	DN300mm DCI Flange spigot pipe with puddle flange	set	1	2.449.978	2.449.978	2.658.300	2.658.300	1.261.562	1.261.562
403-159	DN300mm DCI flanged 45° bend	set	2	2.449.978	4.899.956	1.506.370	3.012.740	3.357.155	6.714.311
*	Manhole								
403-160	DN600mm DCI pipe and blind-flange for access to under drain of the filter	set	4	8.861.000	35.444.000	10.633.200	42.532.800	6.592.342	26.369.370
*	Clear water pipe for Chemical tanks								
403-161	HDPE pipe DN 18-25mm included adaptor, bend, tee & water tap DN18mm...Connect from main service pipeline (inside the WTP)	set	1	443.050	443.050	3.544.400	3.544.400	443.050	443.050
*	Pipe for cleaning								
403-162	DN80mm DCI double flanged pipe	m	24	132.915	3.189.960	398.745	9.569.880	323.023	7.752.543
403-163	DN50mm GSP double flanged pipe to flexible hose box	m	66	88.610	5.848.260	106.332	7.017.912	68.195	4.500.900
403-164	DN80x50mm DCI flanged concentric reducer	set	2	168.359	336.718	443.050	886.100	312.991	625.983
403-165	DN80x25mm DCI flanged concentric reducer	set	1	44.305	44.305	443.050	443.050	270.116	270.116
403-166	DN80mm DUI flanged tee	set	3	168.359	505.077	443.050	1.329.150	668.859	2.006.576
403-167	DN50mm GSP Double flanged 90° bend	set	4	443.050	1.772.200	106.332	425.328	25.815	103.261
403-168	Flexible hose & valve, 20m of DN50mm flexible pipe, mounted hose storage box, and water	LS	2	4.652.025	9.304.050	7.088.800	14.177.600	-	9.304.050

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	connection to service pipeline (inside WTP)								
403-169	GSP pipe and water tap DN20mm (4Nos) to cleaning sludge in tube settlers as shown on drawings and making connection to service pipeline (inside WTP), including all fittings accessories as show on drawings.	LS	4	2.215.250	8.861.000	3.101.350	12.405.400	-	8.861.000
*	Painting for pipes, fittings & Miscellaneous								
403-170	Provide, install expansion joint at Pipe gallery room as shown on drawing FF-06, 11	LS	1	443.050	443.050	4.430.500	4.430.500	-	443.050
403-171	Oil painting for Air blower pipe, 3 Paint coats with "Grey" colour as shown in drawings	LS	1	886.100	886.100	1.063.320	1.063.320	-	886.100
403-172	Oil painting for Backwash water pipe, 3 Paint coats with "Green" colour	LS	1	886.100	886.100	1.063.320	1.063.320	-	886.100
403-173	Oil painting for Clear water pipe, 3 Paint coats with "Blue" colour	LS	1	886.100	886.100	1.063.320	1.063.320	-	886.100
403-174	Oil painting for backwash drain & under drain pipelines, 3 Paint coats with "Brown", colour.	LS	1	886.100	886.100	1.063.320	1.063.320	-	886.100
403-175	Supply hardwood pallet panel for support chlorine at Chemical room	set	2	443.050	886.100	886.100	1.772.200	-	886.100
					5.975.618.621		6.085.158.835		6.407.328.020
404	Clear Water Tank 1000m³, Backwash Tank 150m³ and Pump house at WTP site								
*	Earthworks								
404-1	Excavation of gravel/sand/clay mixtures down to levels shown on the	m3	3.353	26.583	89.132.799	17.722	59.421.866	17.992	60.327.498

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	drawings. Includes transportation and disposal of excess materials upto 10 km at an approved location off-site.								
404-2	Rock excavation for above excavation area as required. Includes transportation and disposal of excess materials upto 10 km at an approved location off-site. (Provisional quantity)	m3	5	88.610	443.050	88.610	443.050	82.373	411.864
404-3	Backfilling around the structure (except working space) with selected excavated materials with 95% compaction.	m3	1.344	22.153	29.772.960	70.888	95.273.472	22.800	30.642.614
*	Concrete works								
404-4	Lean concrete Class C (16MPa)- under all bottom slab, in cluding all chamber as defined on drawings	m3	38	664.575	25.469.837	531.660	20.375.870	863.505	33.093.826
404-5	Reinforced concrete -Class A (30MPa)- for bottom slab, drain, valve chamber etc..	m3	208	2.658.300	552.158.151	2.038.030	423.321.249	3.078.661	639.471.806
404-6	Reinforced concrete-Class A (30MPa) for wall, upper slab and receiving weir, valve chamber, manhole, beams, stair and central support - using formwork class F2	m3	341	265.830	90.563.762	2.215.250	754.698.016	3.078.661	1.048.847.550
404-7	Reinforced concrete-Class A (30MPa) for columns, beams, roof structure, pump support, MCC support, lintel... using formwork class F2	m3	11	2.658.300	28.171.733	2.215.250	23.476.444	3.078.661	32.626.574
404-8	Brick masonry 10cm thickness around the building	m2	142	44.305	6.274.186	115.193	16.312.884	120.822	17.109.978

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
404-9	Cement block masonry for ventilation	m2	32	221.525	6.978.038	115.193	3.628.580	56.876	1.791.594
404-10	Cement mortar plastering (15mm th.) on brick walls, beam, columns...Including preparation of edge line	m2	346	44.305	15.340.332	132.915	46.020.995	51.883	17.964.217
*	Supply, mix and apply cementitious waterproofing & water stop								
404-11	Cementitious waterproofing coating to interior surface of the tank up to HWL.	m2	974	13.292	12.943.422	31.014	30.201.318	12.813	12.477.459
404-12	Fix specified Water stop to be named Dr. Fixit Water bar WS 2020 (20x20mm) Around the basin wall at each concrete joint (3stages) or equivalent	m	430	159.498	68.529.911	62.027	26.650.521	67.480	28.993.457
*	Roof and Ceiling								
404-13	Roof structure made of steel, including wooden planks for eave fascia and all necessary incorporated elements (persienne for ventilation) in accordance with the drawings	LS	1	72.274.202	72.274.202	19.494.200	19.494.200	-	69.672.331
404-14	Roof tiles using Blue Fibber cement tile or similar, including accessories.	m2	178	70.888	12.608.849	97.471	17.337.167	68.336	12.154.930
404-15	Wooden plank (Hard wood or shera strip) 15x80mm for outdoor ceiling including ceiling frame made of hard wood (4x8 @60cm) with 2 coats of anti-termite product and wooden strip.	m2	43	150.637	6.434.309	132.915	5.677.331	145.214	6.202.674
*	Supply and install door- complete set including frame, panel made of								

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	hard wood, hinge/lock etc.								
404-16	Type D1 - 1.40x5.415m (Steel door as shown on drawing)	set	1	4.430.500	4.430.500	10.633.200	10.633.200	4.271.002	4.271.002
404-17	Type D2 - 2x0.8m (Hard wood in clunding asseries)	set	1	1.860.810	1.860.810	3.101.350	3.101.350	2.322.276	2.322.276
*	Supply, install steel works and miscellaneous								
404-18	Galvanize Steel grating over the valve chamber	m2	14	443.050	6.018.557	443.050	6.018.557	427.100	5.801.889
404-19	Galvanize steel ladder outside the tank & inside drain chamber	set	2	1.329.150	2.658.300	4.430.500	8.861.000	1.281.301	2.562.601
404-20	Stainless steel ladder (AISI grade 316) inside the tank	set	4	4.430.500	17.722.000	6.202.700	24.810.800	4.271.002	17.084.008
404-21	Manhole cover and other accessories in compliance with the drawings	set	6	2.215.250	13.291.500	3.101.350	18.608.100	2.135.501	12.813.006
404-22	Supply and install handrail high=1.10m, made by Stainless steel (grade 304), thickness 1.6mm, Dia 40mm for landing and stairs including accessories shown on drawings and Standard Drawings	m	10	443.050	4.430.500	310.135	3.101.350	427.100	4.271.002
404-23	Supply and install CI Manhole Cover with accessories as shown on drawing WS-ST-14	set	3	3.544.400	10.633.200	4.430.500	13.291.500	3.416.802	10.250.405
404-24	Provide, install sliding joint between Pump room & CWT	LS	1	886.100	886.100	2.658.300	2.658.300		886.100
404-25	Incorporate motor, apply two coat of asphalt and planting of grass as per drawing No.: CW-15(3)	LS	1	4.430.500	4.430.500	22.152.500	22.152.500		4.430.500
*	Supply & install pipes, fittings, valves, accessories, concrete support & thrust blocks as shown on drawings								

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
*	Inlet pipe								
404-26	Flanged spigot pipe with Puddle flange DCI DN350mm	set	1	4.873.550	4.873.550	4.873.550	4.873.550	4.773.359	4.773.359
404-27	Double flanged spigot pipe DCI DN350mm (L=1.2m)	set	1	3.916.562	3.916.562	3.987.450	3.987.450	4.360.846	4.360.846
404-28	Flanged Gate Valve with hand-wheel DCI DN350mm	set	1	3.987.450	3.987.450	5.759.650	5.759.650	9.240.802	9.240.802
404-29	Dismantling joint DCI DN350mm	set	1	1.772.200	1.772.200	2.658.300	2.658.300	1.611.000	1.611.000
404-30	Double flanged 90° Bend DCI DN350mm	set	2	3.579.844	7.159.688	2.038.030	4.076.060	3.267.988	6.535.977
*	Inlet Pipe from inlet chamber to Clear water tanks								
404-31	Supply and install DCI Pipe DN350mm (6.00 m Length, both end flanged, including bolts, washer, nuts, joints and accessories ...) from inlet chamber to Clear water tanks	m	10	1.011.926	10.119.262	1.027.876	10.278.760	928.053	9.280.525
404-32	Flanged Gate Valve with hand-wheel DCI DN350mm	set	2	8.417.950	16.835.900	5.759.650	11.519.300	9.240.802	18.481.605
404-33	Flanged pipe with Puddle flange DCI DN350mm	set	1	4.873.550	4.873.550	4.873.550	4.873.550	4.773.359	4.773.359
404-34	Double flanged pipe with Puddle flange DCI DN350mm	set	2	5.316.600	10.633.200	4.873.550	9.747.100	4.360.846	8.721.693
404-35	Double flanged pipe DCI DN350mm (L=0.8m)	set	1	3.413.523	3.413.523	3.987.450	3.987.450	3.967.977	3.967.977
404-36	Dismantling joint DCI DN350mm	set	2	3.260.848	6.521.696	2.658.300	5.316.600	1.611.000	3.222.000
404-37	Double flanged 90° Bend DCI DN350mm	set	5	3.579.844	17.899.220	2.038.030	10.190.150	3.267.988	16.339.942
404-38	Flanged equal Tee DCI 350x350x350mm	set	1	4.866.816	4.866.816	3.189.960	3.189.960	5.657.314	5.657.314
404-39	Flanged Adaptor DCI DN350mm	set	2	886.100	1.772.200	1.063.320	2.126.640	1.611.000	3.222.000
404-40	Flanged spigot pipe DCI DN350mm	set	1	1.656.032	1.656.032	3.987.450	3.987.450	1.925.058	1.925.058

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
404-41	Supply & install Chlorine Injection Point including HDPE pipe DN355mm PN8, stub flange with backring, HDPE clamp saddle and accessories as shown drawing CW-14(7)	set	1	4.430.500	4.430.500	13.291.500	13.291.500	4.430.500	4.430.500
*	Clear water Outlet pipe to Pump house								
404-42	Supply and install Butterfly valve DN350 with Spindle extension including accessories	set	2	4.696.330	9.392.660	4.120.365	8.240.730	4.143.642	8.287.284
404-43	Double flanged pipe DCI DN350mm (L=1m-1.5m)	set	3	4.136.758	12.410.274	3.987.450	11.962.350	4.143.642	12.430.926
404-44	Bell mouth DCI DN350mm	set	2	1.216.704	2.433.408	3.987.450	7.974.900	1.611.000	3.222.000
404-45	Double flanged 90° Bend DCI DN350mm	set	3	3.579.844	10.739.532	2.038.030	6.114.090	3.267.988	9.803.965
404-46	Double flanged pipe with Puddle flange DCI DN350mm	set	2	5.316.600	10.633.200	4.873.550	9.747.100	4.360.846	8.721.693
404-47	Flanged pipe with Puddle flange DCI DN350mm	set	1	4.873.550	4.873.550	4.873.550	4.873.550	4.773.359	4.773.359
404-48	Flanged equal Tee DCI 350x350x350mm	set	1	4.866.816	4.866.816	3.189.960	3.189.960	5.657.314	5.657.314
404-49	Dismantling joint DCI DN350mm	set	2	3.260.848	6.521.696	2.658.300	5.316.600	1.611.000	3.222.000
404-50	Flexible coupling DCI DN350mm	set	1	939.266	939.266	974.710	974.710	1.925.058	1.925.058
404-51	Flanged spigot pipe DCI DN350mm (L=1m)	set	1	3.183.669	3.183.669	3.987.450	3.987.450	3.967.977	3.967.977
*	Clear water pipe from Pump house to On ground reservoir At Namkham 1								
404-52	Supply and install DCI Pipe DN350mm (6.00 m Length, both end flanged, including bolts, washer, nuts, joints and accessories ...)	m	3	1.789.922	5.369.766	1.027.876	3.083.628	962.710	2.888.130

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
404-53	Short flanged spigot pipe DCI DN350mm (L<=0.5m)	set	2	992.432	1.984.864	3.987.450	7.974.900	1.925.058	3.850.117
404-54	Clamp saddle DN350mm-80mm for air valve	set	1	939.266	939.266	1.063.320	1.063.320	939.266	939.266
404-55	Double flanged spigot pipe DCI DN350mm (L=2m)	set	1	4.519.110	4.519.110	3.987.450	3.987.450	4.808.717	4.808.717
404-56	Short flanged spigot pipe DCI DN350mm (L=0.5m)	set	2	2.592.286	5.184.571	3.987.450	7.974.900	3.013.306	6.026.611
404-57	Double flanged pipe with Puddle flange DCI DN350mm	set	1	5.316.600	5.316.600	4.873.550	4.873.550	4.808.717	4.808.717
404-58	Flanged pipe with Puddle flange DCI DN350mm	set	2	4.873.550	9.747.100	4.873.550	9.747.100	3.013.306	6.026.611
404-59	Double flanged 45° Bend DCI DN350mm	set	2	3.210.783	6.421.567	2.038.030	4.076.060	3.267.988	6.535.977
404-60	Flexible coupling DCI DN350mm	set	2	939.266	1.878.532	974.710	1.949.420	1.925.058	3.850.117
404-61	Flanged Adaptor DCI DN350mm	set	2	886.100	1.772.200	1.063.320	2.126.640	1.611.000	3.222.000
404-62	Dismantling joint DCI DN350mm	set	2	3.306.925	6.613.850	2.658.300	5.316.600	1.611.000	3.222.000
*	Clear water pipe to DMA1								
404-63	Supply and install DCI Pipe DN200mm (both end flanged, including bolts, washer, nuts, joints and accessories ...)	m	4	1.444.343	5.055.201	531.660	1.860.810	462.220	1.617.770
404-64	Supply and install Gate valve DN200 with Spindle extension including accessories	set	2	3.367.180	6.734.360	2.658.300	5.316.600	1.313.580	2.627.160
404-65	Double flanged spigot pipe DCI DN200mm (L=2m)	set	2	1.476.686	2.953.371	2.906.408	5.812.816	4.360.443	8.720.886
404-66	Double flanged spigot pipe DCI DN200mm (L=0.4m)	set	2	1.151.753	2.303.506	2.906.408	5.812.816	1.526.369	3.052.739
404-67	Bell mouth DCI DN200mm	set	2	553.724	1.107.448	2.038.030	4.076.060	2.643.478	5.286.957
404-68	Double flanged pipe with Puddle flange DCI DN200mm	set	2	2.271.252	4.542.503	3.065.906	6.131.812	2.383.880	4.767.761

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
404-69	Flanged pipe with Puddle flange DCI DN200mm	set	1	2.170.945	2.170.945	3.065.906	3.065.906	1.526.369	1.526.369
404-70	Dismantling joint DCI DN200mm	set	2	1.151.930	2.303.860	1.329.150	2.658.300	455.000	910.000
404-71	Flanged equal Tee DCI 200x200x200mm	set	1	4.866.816	4.866.816	1.107.625	1.107.625	2.122.340	2.122.340
404-72	Double flanged 90° Bend DCI DN200mm	set	3	1.319.226	3.957.677	708.880	2.126.640	1.124.979	3.374.937
404-73	Flanged Adaptor DCI DN200mm	set	2	575.965	1.151.930	673.436	1.346.872	532.000	1.064.000
404-74	Flexible coupling DCI DN200mm	set	1	664.575	664.575	389.884	389.884	653.000	653.000
*	Overflow pipe								
404-75	Supply and install DCI Pipe DN250mm (6.00 m Length, both end flanged, including bolts, washer, nuts, joints and accessories ...) from Backwash tank 150m³ to WTP Drain chamber No. 8	m	33	1.524.092	50.295.036	708.880	23.393.040	607.580	20.050.142
404-76	Bell mouth DCI DN250mm	Set	1	790.047	790.047	2.038.030	2.038.030	2.215.093	2.215.093
404-77	Double flanged 90° Bend DCI DN250mm	set	3	894.961	2.684.883	1.329.150	3.987.450	1.814.482	5.443.447
404-78	Double flanged 45° Bend DCI DN250mm	set	1	965.849	965.849	1.329.150	1.329.150	2.006.952	2.006.952
404-79	Double flanged pipe with Puddle flange DCI DN250mm	set	1	3.219.556	3.219.556	886.100	886.100	3.335.718	3.335.718
404-80	Flanged spigot pipe with Puddle flange DCI DN250mm	set	1	3.101.350	3.101.350	886.100	886.100	2.692.584	2.692.584
*	Back wash Pipe:								
*	Inside the CWT								
404-81	Bell mouth DCI DN350mm	set	1	1.216.704	1.216.704	3.987.450	3.987.450	1.611.000	1.611.000
404-87	Dismantling joint DCI DN350mm	set	1	3.260.848	3.260.848	2.658.300	2.658.300	1.698.000	1.698.000
404-88	Flexible coupling DCI DN350mm	set	3	939.266	2.817.798	974.710	2.924.130	1.611.000	4.833.000
404-89	Double flanged 90° Bend DCI DN350mm	set	2	1.597.638	3.195.277	2.038.030	4.076.060	3.267.988	6.535.977

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
404-90	Short flanged spigot pipe DCI DN350mm	set	1	1.656.032	1.656.032	3.987.450	3.987.450	3.967.977	3.967.977
*	Treated water pipe to Plant water supply								
404-91	Supply and install Clear water pipe DCI DN80mm including Reducer, 90° Bend, other fittings and accessories as shown on drawings	m	70	297.730	20.841.072	354.440	24.810.800	323.023	22.611.584
*	Drain & under drain pipes								
*	Drain pipe from drain chamber no. 1 to connect with outlet chamber no. 2 Drain pipe								
404-92	Supply and install DCI Pipe DN150mm (both end flanged, including bolts, washer, nuts, joints and accessories ...) from Chamber No.1 to connect with outlet chamber no.2 Drain pipe	m	54	1.391.177	75.123.558	398.745	21.532.230	341.936	18.464.569
404-93	Flanged spigot pipe with Puddle flange DCI DN150mm	set	2	1.019.015	2.038.030	974.710	1.949.420	668.859	1.337.717
404-94	Double flanged 90° Bend DCI DN150mm	set	2	416.467	832.934	487.355	974.710	725.793	1.451.586
*	Drain pipe to Drain chamber No.1								
404-95	Supply and install DCI Pipe DN100mm (both end flanged, including bolts, washer, nuts, joints and accessories ...) from Backwash tank to Chamber No.1	m	9	1.125.347	10.128.123	310.135	2.791.215	282.220	2.539.978
404-96	Supply and install DCI Pipe DN80mm (both end flanged, including bolts, washer, nuts, joints and accessories ...)	m	7	1.151.930	8.063.510	398.745	2.791.215	323.023	2.261.158

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	from Injection chlorine chamber to Chamber No.1								
404-97	Supply and install Gate valv DN100 including Spindle extension with accessories	set	3	2.330.443	6.991.329	513.938	1.541.814	1.025.062	3.075.185
404-98	Double flanged pipe with Puddle flange DCI DN100mm	set	2	922.873	1.845.746	974.710	1.949.420	771.760	1.543.520
404-99	Flanged spigot pipe with Puddle flange DCI DN100mm	set	3	886.100	2.658.300	974.710	2.924.130	771.760	2.315.280
404-100	Flanged spigot pipe with puddle flange DCI DN80mm	set	2	903.822	1.807.644	974.710	1.949.420	274.403	548.807
404-101	Double flanged spigot pipe DCI DN100mm (L=0.2 - 0.8m)	set	3	760.451	2.281.353	974.710	2.924.130	497.356	1.492.069
404-102	Double flanged 90° Bend DCI DN100mm	set	2	283.552	567.104	398.745	797.490	431.981	863.962
404-103	Double flanged 90° Bend DCI DN80mm	set	1	248.108	248.108	265.830	265.830	431.981	431.981
*	Drain pipe to Drain chamber No.2								
404-104	Supply and install Gate valv DN150 including Spindle extension with accessories	set	2	2.587.412	5.174.824	1.860.810	3.721.620	1.888.272	3.776.543
404-105	Flanged spigot pipe with Puddle flange DCI DN150mm	set	2	1.019.015	2.038.030	974.710	1.949.420	668.859	1.337.717
404-106	Flanged spigot pipe with puddle flange DCI DN80mm	set	1	561.167	561.167	974.710	974.710	274.403	274.403
404-107	Double flanged 90° Bend DCI DN80mm	set	1	248.108	248.108	265.830	265.830	387.090	387.090
*	Drain pipe from Drain chamber no.2 to open drain channel along access road								
404-108	Supply and install DCI Pipe DN150mm (6.00 m Length, both end flanged, including bolts, washer, nuts, joints and accessories ...)	m	50	373.314	18.665.697	398.745	19.937.250	341.936	17.096.823

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	from Drain chamber No.2 to Access road Open drain channel								
404-109	Flanged spigot pipe with Puddle flange DCI DN150mm	set	1	1.019.015	1.019.015	974.710	974.710	668.859	668.859
404-110	Double flanged 90° Bend DCI DN150mm	set	2	416.467	832.934	487.355	974.710	431.981	863.962
404-111	Double flanged 45° Bend DCI DN150mm	set	2	398.745	797.490	487.355	974.710	671.493	1.342.986
404-112	Flanged equal Tee DCI 150x150x150mm	set	1	815.212	815.212	735.463	735.463	1.393.455	1.393.455
*	Drain pipe from Drain chamber No.4 to WTP Drain chamber No.8								
404-113	Supply and install DCI Pipe DN80mm (6.00 m Length, both end flanged, including bolts, washer, nuts, joints and accessories ...) from Drain chamber No.4 to WTP Drain chamber No.8	m	21	383.327	8.049.864	398.745	8.373.645	323.023	6.783.475
404-114	Flanged pipe with Puddle flange DCI DN80mm	set	2	801.123	1.602.246	974.710	1.949.420	651.708	1.303.417
404-115	Double flanged 45° Bend DCI DN80mm	set	2	395.732	791.465	265.830	531.660	387.090	774.179
*	Pipes connecting with flexible hose box								
*	Supply and install GSP heavy duty pipe DN50mm (both end flanged, including bolts, washer, nuts, joints and accessories ...)	m	3	177.220	531.660	106.332	318.996	68.195	204.586
404-116	Flanged equal Tee DCI 80x80x50mm	set	1	407.606	407.606	443.050	443.050	613.120	613.120
404-117	Double flanged bend 90° DN50mm	set	2	106.332	212.664	106.332	212.664	725.793	1.451.586
404-118	Supply & install flexible hose valves, 20m of dia 50mm flexible pipe, mounted hose storage box and water	LS	1	4.430.500	4.430.500	7.088.800	7.088.800		4.430.500

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	connection to sludge cleaning station as shown on drawings								
*	Pipes, fittings & valve as shown inside pump house								
404-119	Butterfly valve DN250mm, including electrically driven actuator for automatic operation. Manually operatorble handle should be available with the actuator.	set	2	23.924.700	47.849.400	6.202.700	12.405.400	1.844.877	3.689.753
404-120	Butterfly valve DN350mm, including electrically driven actuator for automatic operation during backwashing. Manually operatorble handle should be available with the actuator.	set	2	31.013.500	62.027.000	7.531.850	15.063.700	4.143.642	8.287.284
404-121	Supply & install pipes, fittings, valves, accessories, concrete support & thrust blocks...etc., as shown on drawing (No.: CW-10 and CW-11), except pumps, air valves, motorize valves and eletro-magnetic flow meter.	LS	1	310.135.000	310.135.000	48.735.500	48.735.500		310.135.000
					2.044.761.257		2.194.238.671		2.805.080.903
405	PAC mixing house at WTP site.								
*	Earthworks								
405-1	Soil excavation for footings (below the ground level ,as specified on the drawings)	m3	52	26.583	1.382.316	13.292	691.158	17.992	935.589
405-2	Hard fill compaction under the foundation up to the level as indicated on the drawings.	m3	40	22.153	886.100	26.583	1.063.320	22.172	886.880
405-3	Backfill inside the building with	m3	15	22.153	332.288	70.888	1.063.320	22.172	332.580

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	sand/gravel watered with anti-termite product and covered by plastic sheet.								
*	Concrete works								
405-4	Lean concrete -Class C (16MPa) under footings, retaining walls around the building and under ground beams	m3	2	664.575	1.329.150	531.660	1.063.320	863.505	1.727.010
405-5	R.C Structure of the building (footing , ground beams, columns, ground floor slab, first floor slab, roof beam, stair ,lintels & etc..) using concrete - Class B (25MPa).	m3	28	2.481.080	69.470.240	2.038.030	57.064.840	3.078.661	86.202.515
405-6	Concrete with wire mesh steel for footpath around building 10cm thick, (using concrete class C-16MPa)	m3	3	886.100	2.658.300	531.660	1.594.980	863.505	2.590.515
*	Masonry and Plastering								
405-7	Brick masonry 20cm thick for retaining wall around the building and supporting the ground beams inside the building.	m2	8	212.664	1.701.312	230.386	1.843.088	227.504	1.820.032
405-8	Brick masonry 10cm thick for partition walls & facades	m2	123	88.610	10.899.030	115.193	14.168.739	120.500	14.821.500
405-9	Cement mortar plastering (15mm th.) on brickwalls, beam, columns , retaining wall etc..including preparation of edge line for corner	m2	150	106.332	15.949.800	132.915	19.937.250	51.883	7.782.472
405-10	Block for support PAC mixing tanks (masonry brick, sand compacted & concrete class B (25MPa) as shown on drawings No.: MH-10	set	1	4.430.500	4.430.500	7.088.800	7.088.800	54.948	54.948
405-11	Decorative moulding outside wall, at Ground beam level size 5x10cm	m	34	48.736	1.632.639	44.305	1.484.218	46.981	1.573.864

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
405-12	Decorative moulding column in front building size 30x30cm as shown on drawings	set	2	1.329.150	2.658.300	1.594.980	3.189.960	1.329.150	2.658.300
405-13	Decorative RC bench with Ceramic top and face in front building size 30x130cm as shown on drawings	set	2	797.490	1.594.980	2.658.300	5.316.600	797.490	1.594.980
*	Roof & Ceiling								
405-14	Supply and erect steel roofing structure, hard woodeave fascia including "corrugated asbestos cement sheets", coping tiles on the top of ridges and other accessories in compliance with the drawings.	m2	130	203.803	26.494.390	318.996	41.469.480	231.000	30.030.000
405-15	Indoor ceiling using Gybsum boards fixed on hard-wooden grid duly painted with anti-termite chemical product, including necessary plaster using gypsum powder.	m2	65	101.902	6.572.647	115.193	7.429.949	98.233	6.336.031
405-16	Outdoor ceiling using "Shera product" or equivalent and ceiling grid (4x8cm@60cm) made of hard wood with 2 coats of anti-termite product –including wood strip along the ceiling/wall junction.	m2	41	124.054	5.086.214	132.915	5.449.515	119.588	4.903.110
*	Floor and Walls Finishing works								
405-17	Ceramic tiles 45x45cm of floors (inside the house + veranda + stair + bench etc..) using rough surface tiles	m2	60	106.332	6.379.920	132.915	7.974.900	102.504	6.150.243
405-18	Ceramic tiles 30x30cm of surface of Block support PAC Mixing tanks using rough surface tiles	m2	15	106.332	1.594.980	132.915	1.993.725	102.504	1.537.561
405-19	Ceramic tiles 20x20cm for toilet floor	m2	8	106.332	850.656	115.193	921.544	102.504	820.032

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
405-20	Ceramic tiles 20x25cm on toilet and inside the building wall (up to the ceiling) using polished surface tiles.	m2	147	106.332	15.630.804	115.193	16.933.371	102.504	15.068.095
405-21	Brick masonry 10cm thick, concrete slab Ceramic tiles wall 20x25cm and Granite top (or equivalent) on counter sink table included hard wood cupboard under the counter in compliance with the drawings.	LS	1	3.544.400	3.544.400	4.430.500	4.430.500		3.544.400
*	Door, Windows and steel frame installation								
*	Supply and installation of door-complete set (door panel made of hard wood including glass 5mm thick, frame, hinge/lock including wooden strip around the frame etc...) in compliance with drawings.								
405-22	Type D1: 2x60 x 210cm, hard wood panel	set	1	2.791.215	2.791.215	2.481.080	2.481.080	3.944.688	3.944.688
405-23	Type D2: 70 x 210cm, hard wood panel	set	2	1.860.810	3.721.620	1.107.625	2.215.250	232.228	464.455
405-24	Type D3: 80 x 210cm, hard wood panel	set	1	2.215.250	2.215.250	1.674.729	1.674.729	232.228	232.228
405-25	Installation of rolling metal door size 210x230cm	set	1	4.430.500	4.430.500	3.101.350	3.101.350	4.271.002	4.271.002
*	Supply and Installation of window-complete set (5mm th.of fix glass panels and frame made of hard wood, including hinges, locks, wooden strip around the frame and anti-burglar net with other accessories...)								
405-26	Type W2: 2x80x120cm	set	3	821.858	2.465.573	1.400.038	4.200.114	1.172.224	3.516.672

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
405-27	Type W3: 2x60x50cm with glass louver for Toilet wall	set	1	708.880	708.880	1.063.320	1.063.320	1.172.224	1.172.224
405-28	Type W4: 60x50cm with glass louver for Toilet wall	set	1	443.050	443.050	886.100	886.100	443.050	443.050
405-29	Type W5: 25x25cm for ventilation fan as shown on drawings	set	4	221.525	886.100	443.050	1.772.200	221.525	886.100
405-30	Type: W6: 330x182cm for ventilation wall as shown on drawings	set	2	1.329.150	2.658.300	1.329.150	2.658.300	1.329.150	2.658.300
405-31	Supply and install Hard wood portable stair size 66x148cm for chemicals tank as shown on drawing.	set	1	443.050	443.050	2.658.300	2.658.300	443.050	443.050
405-32	Supply and install Hard wood pallet 100x120cm for dry chemicals	set	2	265.830	531.660	310.135	620.270	265.830	531.660
405-33	Supply and install rectangular stainless steel frame Grade 316, size 75x50x2.3mm for support motors & dosing pump as shown on drawings No.: MH-10	set	1	8.861.000	8.861.000	4.430.500	4.430.500	8.861.000	8.861.000
*	Painting works								
405-34	Emulsion paint (3 coats) with primer coat on building interior walls using Maestra Lao paint (or equivalent).	m2	50	35.444	1.772.200	22.153	1.107.625	12.532	626.600
405-35	Emulsion paint(3 coats) with primer coat on building exterior walls using Maestra Lao paint (or equivalent)	m2	150	17.722	2.658.300	22.153	3.322.875	13.496	2.024.400
405-36	Emulsion paint (3 coats) with primer coat on gypsum board ceiling using Maestra Lao paint (or equivalent).	m2	106	39.875	4.206.760	22.153	2.337.089	13.496	1.423.828
405-37	Oil paint (3 coats) on hard wood eave fascia, ventilation wall	m2	24	22.153	531.660	23.925	574.193	16.388	393.312

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
405-38	Oil paint or Urethane paint (3 coats) on door and window frames, all exposed decorative wooden ceiling.	m2	37	22.153	817.206	23.925	882.582	21.208	782.363
*	Sanitary and Plumbing work								
405-39	Supply and install water-closet (white color) Cotto No. Tiara C186 or equivalent including valve and fitting.	set	2	2.073.474	4.146.948	1.196.235	2.392.470	2.933.452	5.866.904
405-40	Supply and install lavatory including valve and accessories model: Jade 007 or equivalent	set	2	841.795	1.683.590	637.992	1.275.984	841.795	1.683.590
405-41	Supply and install double sink including valve and accessories.	set	1	886.100	886.100	797.490	797.490	886.100	886.100
405-42	Supply and install shower including valve and accessories	set	1	310.135	310.135	159.498	159.498	310.135	310.135
405-43	Supply and install paper holder Cotto C830	unit	2	172.790	345.579	79.749	159.498	172.790	345.579
405-44	Supply and install towel bar Cotto C837	unit	3	203.803	611.409	79.749	239.247	203.803	611.409
405-45	Supply and install stainless steel floor drain Ø50mm	unit	3	146.207	438.620	39.875	119.624	146.207	438.620
405-46	Supply and install Rinsing Sprayer Cotto Ct667	unit	2	310.135	620.270	79.749	159.498	310.135	620.270
405-47	Supply and install mirror with aluminum frame (miniimum 70cmx90cm)	unit	2	354.440	708.880	203.803	407.606	354.440	708.880
405-48	Supply and install clean water pipe DN18-25mm connecting from near by discharge pipe of booster pump to PAC mixing house including necessary fittings, valves etc..as shown on drawings.	LS	1	886.100	886.100	797.490	797.490	-	886.100

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
405-49	Water tap DN 18mm included female adaptor (high quality)	set	3	177.220	531.660	79.749	239.247	177.220	531.660
405-50	Supply and install waste water pipe DN50mm from lavatory and floor drain to main pipe as indicated on the drawings.	LS	1	841.795	841.795	797.490	797.490	-	841.795
405-51	RC. drain chanel (300mmx400mm) with small chamber included cover grating as shown on drawing.	LS	1	1.772.200	1.772.200	13.291.500	13.291.500	-	1.772.200
405-52	Supply and install connecting pipes DN100mm from small drain chamber at chemical mixing room to drain chamber No.A as shown on drawings (including all necessary fittings).	LS	1	664.575	664.575	602.548	602.548	-	664.575
405-53	Supply and install connecting pipes DN100mm from WCs to septic tank and from septic tank to seepage, including DN75mm for ventilation as shown on drawings (including all necessary fittings).	LS	1	664.575	664.575	602.548	602.548	-	664.575
405-54	Construction of RC septic tank and seepage pit as specified on the drawings.	LS	1	8.861.000	8.861.000	7.974.900	7.974.900	-	8.861.000
					245.194.725		268.175.090		249.738.981
406	Static Mixer Chamber and Service Channel								
*	Earthworks								
406-1	Soil excavation for footings (below the ground level ,as specified on the drawings)	m3	9	26.583	239.247	15.950	143.548	17.992	161.929
*	Concrete work								
406-2	Lean concrete - Class C (16MPa)	m3	0	664.575	199.373	531.660	159.498	863.505	259.051

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	under foundation as defined in the drawings								
406-3	Reinforced concrete –Class A (30MPa) with waterproofing admixture - foundation, wall	m3	4	2.658.300	10.633.200	2.215.250	8.861.000	3.078.661	12.314.645
406-4	RC. service channel - Class A, for chemical dosing lines to Static Mixer and Pre-sed tank, including all accessories as shown on drawing	m	12	443.050	5.316.600	398.745	4.784.940	427.100	5.125.202
406-5	Concrete pipe support with clamp pipe	set	1	310.135	310.135	310.135	310.135	310.135	310.135
*	Steel work								
406-6	Chequer plate Cover 6mm thickness over the chamber including Galvanized steel frame as shown on drawings	m2	3	354.440	1.063.320	886.100	2.658.300	341.680	1.025.040
*	Pipes and fittings for Static Mixer								
*	Supply, install pipes, include pipe anchoring, laying & excavation, fittings, valves, concrete support, thrust blocks including bolts, washer, nuts, joints and accessories as shown on the drawings								
406-7	Dismantling Joint DN350mm, including accessories to be installed as shown on the drawings.	set	1	2.536.461	2.536.461	2.658.300	2.658.300	2.536.461	2.536.461
406-8	Flanged spigot pipe DN 350mm, including accessories to be installed as shown on the drawings.	set	2	770.907	1.541.814	4.873.550	9.747.100	770.907	1.541.814
406-9	Flexible coupling DN 350mm, including accessories to be installed as shown on the drawings.	set	2	939.266	1.878.532	974.710	1.949.420	939.266	1.878.532
*	Drain pipe and fittings								

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
406-10	HDPE PE100 PN6 DN63mm	m	12	17.722	212.664	26.583	318.996	19.725	236.694
					23.931.346		31.591.237		25.389.505
407	Detention Pond								
*	Earthworks for detention pond site								
407-1	Excavation of gravel/sand/clay mixtures down to levels shown on the drawings for the full detention pond area. Includes transportation and disposal of excess material at an approved location off-site.	m3	475	26.583	12.626.925	17.722	8.417.950	18.810	8.934.545
407-2	Extra over rate for rock excavation and/or existing reinforced concrete structure removal around entire detention pond site as required. Includes disposal off-site at an approved location. (Provisional quantity)	m3	5	88.610	443.050	88.610	443.050	82.373	411.864
407-3	Backfilling and dike compaction of soil with CBR 90% as shown on drawing no. DP-02 and DP-03	m3	30	26.583	797.490	70.888	2.126.640	19.457	583.721
*	Access stair to detention pond								
407-4	Construction Reinforced concrete - Class B (25MPa) access stair includes excavation, backfill and accessories...as shown on the drawings	set	2	4.430.500	8.861.000	5.316.600	10.633.200	-	8.861.000
*	Receiving well and inlet chambers/spillways								
407-5	Construction receiving well includes excavation, backfill and accessories...as shown on the drawings	set	1	4.873.550	4.873.550	8.861.000	8.861.000	4.873.550	4.873.550

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
407-6	Construction spill way includes excavation, backfill and accessories...as shown on the drawings	set	1	4.430.500	4.430.500	8.861.000	8.861.000	4.430.500	4.430.500
*	Steel work								
407-7	Supply and install galvanized steel grating & manholes as shown on drawings no. DP-02	set	1	2.215.250	2.215.250	17.722.000	17.722.000	2.215.250	2.215.250
					34.247.765		57.064.840		30.310.430
408	Outdoor works								
*	Fence and gates								
408-1	Entrance Gate (type 1) in front of WTP including painting, sign board name's NAMPAPA district next to entrance of WTP, size:2x1.5m decorated with granite, washed gravel and carved letters, steel sliding gate with accessories, 2 glass bulb on the columns at the main gate in compliance with the issued drawings	LS	1	13.291.500	13.291.500	31.013.500	31.013.500	-	12.813.006
408-2	Fence No. 2 around WTP (chain link fencing) as specify on the standard drawings.	m	485	354.440	171.903.400	239.247	116.034.795	134.960	65.455.600
*	Construction of R.C drain chambers and site drains								
*	Construction of drain chambers made of reinforced concrete as shown on the drawings, including all excavation, backfill and lean concrete layer, as follows:								
408-3	Drain Chamber No.1-7 (Type 1: 1m x 1m) included grating & Galvanize	Set	7	8.861.000	62.027.000	5.759.650	40.317.550	2.400.000	16.800.000

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	steel ladder as shown on drawing No.: WT-10 to WT-12								
408-4	Drain Chamber No.8 (Type 2: 1.5m x 1.5m) included grating & Galvanize steel ladder as shown on drawing No.: WT-10 to WT-12	Set	3	13.291.500	39.874.500	6.202.700	18.608.100	4.900.000	14.700.000
408-5	DCI Pipe DN300mm (D-1) from Drain chamber No.1 to chamber No.2 (1.50-6.00m length, both ends flanged, including bolts, washer, nuts, joints, puddle flanged pipes and accessories)	m	29	1.107.625	32.121.125	620.270	17.987.830	741.464	21.502.469
408-6	DCI Pipe DN300mm (D-1) from Drain chamber No.2 to chamber No.3 (1.50-6.00m length, both ends flanged, including bolts, washer, nuts, joints, puddle flanged pipes and accessories)	m	7	1.107.625	7.753.375	620.270	4.341.890	741.464	5.190.251
408-7	DCI Pipe DN300mm (D-1) from Drain chamber No.3 to chamber No.4 (1.50-6.00m length, both ends flanged, including bolts, washer, nuts, joints, puddle flanged pipes and accessories)	m	21	1.107.625	23.260.125	620.270	13.025.670	741.464	15.570.753
408-8	DCI Pipe DN300mm (D-1) from Drain chamber No.4 to chamber No.5 (1.50-6.00m length, both ends flanged, including bolts, washer, nuts, joints, puddle flanged pipes and accessories)	m	27	1.107.625	29.905.875	620.270	16.747.290	741.464	20.019.540
408-9	DCI Pipe DN300mm (D-1) from	m	15	1.107.625	16.614.375	620.270	9.304.050	741.464	11.121.967

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	Drain chamber No.5 to chamber No.7 (1.50-6.00m length, both ends flanged, including bolts, washer, nuts, joints, puddle flanged pipes and accessories)								
408-10	DCI Pipe DN300mm (D-1) from Drain chamber No.6 to chamber No.7 (1.50-6.00m length, both ends flanged, including bolts, washer, nuts, joints, puddle flanged pipes and accessories)	m	31	1.107.625	34.336.375	620.270	19.228.370	741.464	22.985.398
408-11	DCI Pipe DN300mm (D-1) from Drain chamber No.7 to chamber No.8 (1.50-6.00m length, both ends flanged, including bolts, washer, nuts, joints, puddle flanged pipes and accessories)	m	40	1.107.625	44.305.000	620.270	24.810.800	741.464	29.658.578
*	Construction of R.C Retaining Walls around WTP site								
*	Construction of retaining walls made of reinforced concrete Class B (25MPa) , including all excavation, backfill and lean concrete layer, Stainless steel hand rail and other accessories as shown on the Drawings and technical specified on Standard Drawings								
408-12	RC Retaining wall No.1 (Type 1-1) as shown on the drawings and Standard Drawings.	m	9	620.270	5.272.295	434.189	3.690.607	833.690	7.086.364
408-13	RC Retaining wall No.1 (Type 1-2) as shown on the drawings and	m	25	1.949.420	48.150.674	1.621.563	40.052.606	2.031.403	50.175.649

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທໍ່ປັກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	Standard Drawings.								
408-14	RC Retaining wall No.1 (Type 2-1) as shown on the drawings and Standard Drawings.	m	15	3.987.450	57.818.025	2.613.995	37.902.928	4.704.695	68.218.080
408-15	RC Retaining wall No.2 (Type 1-1) as shown on the drawings and Standard Drawings.	m	8	584.826	4.678.608	434.189	3.473.512	833.690	6.669.519
408-16	RC Retaining wall No.2 (Type 1-2) as shown on the drawings and Standard Drawings.	m	25	1.905.115	46.675.318	1.621.563	39.728.294	2.031.403	49.769.368
408-17	RC Retaining wall No.2 (Type 2-1) as shown on the drawings and Standard Drawings.	m	48	4.208.975	199.926.313	2.613.995	124.164.763	4.704.695	223.473.019
408-18	RC Retaining wall No.3 (Type 1-2) as shown on the drawings and Standard Drawings.	m	14	1.993.725	26.915.288	1.621.563	21.891.101	2.031.403	27.423.938
408-19	RC Retaining wall No.3 (Type 2-1) as shown on the drawings and Standard Drawings.	m	10	4.120.365	39.143.468	2.613.995	24.832.953	4.704.695	44.694.604
408-20	RC Retaining wall No.3 (Type 2-2) as shown on the drawings and Standard Drawings.	m	16	6.809.679	105.550.017	4.271.002	66.200.531	7.769.660	120.429.724
408-21	RC Retaining wall No.4 (Type 2-2) as shown on the drawings and Standard Drawings.	m	14	7.044.495	95.100.683	4.271.002	57.658.527	7.769.660	104.890.405
408-22	RC Retaining wall No.5 (Type 1-2) as shown on the drawings and Standard Drawings.	m	5	2.064.613	9.290.759	1.621.563	7.297.034	2.031.403	9.141.313
408-23	RC Retaining wall No.5 (Type 2-1) as shown on the drawings and Standard Drawings.	m	7	4.262.141	29.834.987	2.613.995	18.297.965	4.704.695	32.932.866

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
408-24	RC Retaining wall No.6 (Type 1-2) as shown on the drawings and Standard Drawings.	m	2	1.976.003	3.952.006	1.621.563	3.243.126	2.031.403	4.062.806
408-25	Supply and install handrail high=1.10m, made by Stainless steel (grade 304), thickness 1.6mm, Dia 40mm on the retaining wall including accessories shown on drawings and Standard Drawings	m	64	443.050	28.355.200	310.135	19.848.640	396.204	25.357.056
*	Access Road No. 1 to WTP - RC Road (313m)								
408-26	Site clearing including removal of stumps <500mm	m2	1.878	4.431	8.320.479	2.658	4.992.287	3.127	5.872.912
408-27	Soil excavation	m3	9.054	26.583	240.682.482	13.292	120.341.241	18.810	170.301.829
408-28	Extra over 603-11 for rock excavation and/or reinforced concrete structures around construction site as required. Includes disposal off-site at an approved location (Provisional quantity)	m3	20	88.610	1.772.200	88.610	1.772.200	80.293	1.605.850
408-29	Embankment filling, using selected excavated soil	m3	835	22.153	18.497.338	26.583	22.196.805	19.457	16.246.909
408-30	Sub-base Thickness 150mm, Compacted 95%-CBR>25%.	m3	148	106.332	15.737.136	70.888	10.491.424	54.347	8.043.419
408-31	Reinforced concrete - Class A (30MPa) for road surface with 150mm thickness.	m3	148	2.658.300	393.428.400	1.329.150	196.714.200	3.078.661	455.641.865
408-32	Construction RC. drains channel along road side as shown on drawings as specified in the drawing No.: WS-ST-39	m	313	531.660	166.409.580	398.745	124.807.185	114.234	35.755.242

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
408-33	Reinforced concrete pipe culvert Dia.600, L=14m, Including RC wingwalls excavation, wingwall inlet-outlet, sand backfill, lean concrete joints, trust block as shown on the drawings	set	1	12.405.400	12.405.400	6.202.700	6.202.700	7.248.621	7.248.621
408-34	Traffic Posts	set	4	443.050	1.772.200	575.965	2.303.860	1.403.433	5.613.731
408-35	Traffic warning Sign (Limit to 30km/h)	set	2	708.880	1.417.760	575.965	1.151.930	1.487.473	2.974.946
					2.036.499.262		1.270.676.261		1.719.447.596
409	Pipe Bridges								
*	Pipe Bridge at Nam Mong (NT-WS-PB1)								
*	Temporary Work								
409-1	Site clearance for construction around Pipe bridge before and after construction including fill and cut adjusted.	LS	1	4.430.500	4.430.500	22.152.500	22.152.500	-	4.430.500
409-2	Construction, temporary work for construction and Remove when the pipe bridge construction is finished.	LS	1	4.430.500	4.430.500	31.013.500	31.013.500	-	4.430.500
*	Piling Work								
409-3	Reinforced concrete -Class B (25MPa) Bore pile Ø500mm, depth 14000mm for supported beam, as shown on drawing	m	24	1.107.625	26.583.000	1.417.760	34.026.240	768.308	18.439.392
409-4	Pile Integrity test	pile	2	443.050	886.100	310.135	620.270	443.050	886.100
409-5	Pile head preparation	pile	2	443.050	886.100	575.965	1.151.930	321.012	642.024
409-6	Dynamic Pile Load Test	LS	1	8.861.000	8.861.000	13.291.500	13.291.500	8.542.004	8.542.004
*	Concrete works								
409-7	Reinforced concrete-Class B for	m3	3	2.481.080	6.202.700	2.215.250	5.538.125	3.078.661	7.696.653

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	beams...as defined in drawings								
*	Pipe Bridge (Steel work and miscellaneous)								
*	Supply and install Steel Pipe bridge including other accessories, jointing...and 3coats of anti-corrosive paint as shown on the drawings.								
409-8	Steel H-Column and beam 175x175x7.5x11mm, jointing including all accessories as shown on drawing.	m	150	664.575	99.686.250	575.965	86.394.750	640.650	96.097.545
409-9	Steel square tube 100x50x4mm used for truss fixed by welding including pipe clamp as shown on the drawings.	m	300	177.220	53.166.000	132.915	39.874.500	170.840	51.252.024
409-10	Galvanized steel bearing plate, J-bolt for Grid A & B, including other accessories as shown on the drawing.	set	4	354.440	1.417.760	3.101.350	12.405.400	354.440	1.417.760
*	Pipe & fittings								
*	Supply, install pipes, include pipe anchoring, laying & excavation, fittings, valves, concrete support, thrust blocks including bolts, washer, nuts, joints and accessories as shown on the drawings								
409-11	Double flanged DCI pipe DN350mm	m	50	1.011.926	50.596.310	1.027.876	51.393.800	1.761.075	88.053.737
409-12	Double flanged DCI pipe DN150mm	m	50	382.175	19.108.747	443.050	22.152.500	537.316	26.865.818
409-13	All flanged bend 45° DCI DN350mm	set	4	3.210.783	12.843.133	2.038.030	8.152.120	2.985.805	11.943.219
409-14	All flanged bend 45° DCI DN150mm	set	4	2.126.640	8.506.560	443.050	1.772.200	671.493	2.685.972
409-15	Stub flanged with backing ring DN 150mm for Connection DCI & HDPE	set	2	365.516	731.033	886.100	1.772.200	345.000	690.000

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	pipes								
409-16	DN50mm, double orifice type air valve, with necessary fittings connected to DN350 HDPE/DCI pipe as shown on the detailed design drawings and Standard Drawings	set	1	4.430.500	4.430.500	3.455.790	3.455.790	3.007.160	3.007.160
409-17	DN50mm, Double orifice type air valve with necessary fittings connected to HDPE DN160/DCI DN150 as shown on the detailed design drawings and Standard Drawings	set	1	4.430.500	4.430.500	3.455.790	3.455.790	3.007.160	3.007.160
409-18	DN100 washout with necessary fittings for connection to DCI DN350 including Surface Box as shown on the detailed design drawings and Standard Drawings	set	2	4.873.550	9.747.100	6.734.360	13.468.720	4.631.427	9.262.855
409-19	DN80 washout with necessary fittings for connection to HDPE DN160mm/DCI DN150mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	2	3.987.450	7.974.900	6.734.360	13.468.720	4.631.427	9.262.855
*	Pipe Bridge at Nam Khan (NT-WS-PB2)								
*	Temporary Work								
409-20	Site clearance for construction around Pipe bridge before and after construction including fill and cut adjusted.	LS	1	4.430.500	4.430.500	22.152.500	22.152.500	-	4.430.500
409-21	Construction, temporary work for construction and Remove when the pipe bridge construction is finished.	LS	1	4.430.500	4.430.500	31.013.500	31.013.500	-	4.430.500

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
*	Piling Work								
409-22	Reinforced concrete -Class B (25MPa) Bore pile Ø500mm, depth 12000mm for supported beam, as shown on drawing	m	24	1.107.625	26.583.000	1.417.760	34.026.240	863.505	20.724.118
409-23	Pile Integrity test	pile	2	443.050	886.100	310.135	620.270	427.100	854.200
409-24	Pile head preparation	pile	2	443.050	886.100	575.965	1.151.930	321.012	642.024
409-25	Dynamic Pile Load Test	LS	1	8.861.000	8.861.000	13.291.500	13.291.500	8.542.004	8.542.004
*	Concrete works								
409-26	Reinforced concrete-Class B for beams...as defined in drawings	m3	3	2.481.080	6.202.700	2.215.250	5.538.125	3.078.661	7.696.653
*	Pipe Bridge (Steel work and miscellaneous)								
*	Supply and install Steel Pipe bridge including other accessories, jointing...and 3coats of anti-corrosive paint as shown on the drawings.								
409-27	Steel H-Column and beam 175x175x7.5x11mm, jointing including all accessories as shown on drawing.	m	150	664.575	99.686.250	575.965	86.394.750	640.650	96.097.545
409-28	Steel square tube 100x50x4mm used for truss fixed by welding including pipe clamp as shown on the drawings.	m	300	177.220	53.166.000	132.915	39.874.500	170.840	51.252.024
409-29	Galvanized steel bearing plate, J-bolt for Grid A & B, including other accessories as shown on the drawing.	set	4	354.440	1.417.760	3.101.350	12.405.400	354.440	1.417.760
*	Pipe & fittings								
*	Supply, install pipes, include pipe								

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	anchoring, laying & excavation, fittings, valves, concrete support, thrust blocks including bolts, washer, nuts, joints and accessories as shown on the drawings								
409-30	Double flanged DCI pipe DN350mm	m	50	1.011.926	50.596.310	1.027.876	51.393.800	928.053	46.402.626
409-31	Double flanged DCI pipe DN100mm	m	50	318.996	15.949.800	310.135	15.506.750	282.220	14.110.989
409-32	All flanged bend 45° DCI DN350mm	set	4	3.210.783	12.843.133	2.038.030	8.152.120	2.878.316	11.513.263
409-33	All flanged bend 45° DCI DN100mm	set	4	1.417.760	5.671.040	292.413	1.169.652	395.440	1.581.760
409-34	Stub flanged with backing ring DN 100mm for Connection DCI & HDPE pipes	set	2	243.678	487.355	797.490	1.594.980	237.000	474.000
409-35	DN50mm, double orifice type air valve, with necessary fittings connected to DN350 HDPE/DCI pipe as shown on the detailed design drawings and Standard Drawings	set	1	4.430.500	4.430.500	3.455.790	3.455.790	3.007.160	3.007.160
409-36	DN25mm, Single orifice type air valve with necessary fittings connected to HDPE DN110/DCI DN100 as shown on the detailed design drawings and Standard Drawings	set	1	2.658.300	2.658.300	2.791.215	2.791.215	1.581.920	1.581.920
409-37	DN100 washout with necessary fittings for connection to DCI DN350 including Surface Box as shown on the detailed design drawings and Standard Drawings	set	2	4.873.550	9.747.100	6.734.360	13.468.720	4.631.427	9.262.855
409-38	DN80 washout with necessary fittings for connection to HDPE DN110mm/DCI DN100mm including Surface Box as shown on the detailed design drawings and Standard Drawings	set	2	3.987.450	7.974.900	6.734.360	13.468.720	4.631.427	9.262.855

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
					641.827.041		723.031.017		641.898.034
410	Miscellaneous								
410-1	Aeration tower for construction within maintenance period if required (dependent on water quality test results during first year of operation). Construction as per drawings, inclusive of additional pipework and fittings required to connect tower in between intake rising main and inlet chamber.	PS	n/a						
410-2	Tap stand arrangements including all fittings required to be fed from 63mm HDPE Pipe. Detail of tap stand same as for domestic connection meter drawing.	LS	1	2.658.300	2.658.300	2.658.300	2.658.300	-	2.658.300
410-3	DN25mm uPVC pipe network connected from the domestic meter to serve WTP site as shown on general layout drawings, with all associated tees, elbows and other fittings.	LS	1	886.100	886.100	4.430.500	4.430.500	-	886.100
410-4	Provision of maintenance items for WTP such as: 1 x wheelbarrow, 2 x valve keys, 2 x shovels, 1 x 4 stroke grass cutter (Honda HHT SL5SLTAT or equivalent)	LS	1	8.861.000	8.861.000	8.861.000	8.861.000	-	8.861.000
410-5	Bamboo plantation on the edge of soil backfilling for landslide protection as shown on the drawing	nos	n/a						
411	Provision Sump for quantity variation and items variation under Bill no. 4	PS	0.06		847.613.492		808.959.788		
Total for Bill No. 4: Construction of Intake					14.974.505.027		14.291.622.914		15.676.128.383

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
and Water Treatment Facilities									

ໃບຄິດໄລ່ລາຄາ ທີ 5

ສະໜອງອຸປະກອນ ແລະ ຕິດຕັ້ງເຄື່ອງກົນຈັກ

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	Supply & installation rates of all materials, plants, equipment shall include: (i) All materials, plants, equipment, supplied under this bill, shall be brand new and from the original source. (ii) Material cost, transport (up to the installation location), insurance, handling, storing etc. (iii) Testing of materials & submission of test reports prior to shipping, third party certification, all other documentation. (iv) Custom clearing and dealing with local authorities for formal approval etc. (v) The contractor is responsible to check the BOQ with tender/design drawings prior to pricing of BOQ. If unit indicates “set”, the rate of the item shall include for all the labour, materials, plants & equipment, required to complete such item, as per the specification and tender/design drawings to fulfill the purpose. (vi) It is assume that rates for items, shown in drawings &/or specified in the technical specification, and not specified in the BOQ, are included in other rates (stated below), furnished in the bid.								
500	Intake pumps								
500-1	Supply, deliver and install submersible pumps, each pump capable of delivering a Total flow, Q=144m3/hr against a Total Head, TDH=66m ; with a overall efficiency (minimum)= 62% ; power 55kW (approx.) ; required NPSH= n/a , Driven by appropriate submersible electric motor, starting method with VFD , suitable for 380-415VAC, 3-Phase, 50Hz. , Cable length not less than 20m , free passage of particle up to 10mm . or equivalent, including all other accessories necessary for the complete installation and operation as required. Include provision for technician from supplier to visit site during initial installation and testing, and again at commissioning to ensure pump is set up	unit	4	95.000.000	380.000.000	177.000.000	708.000.000	137.596.900	550.387.600

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	correctly and operation of pumps & equipment is as per the project requirement.								
500-2	Provision for supply of spare parts for intake pumps, required for next 5 years including Kit, shaft seal cartridge and Kit oring set for wet motor NBR etc.	LS	1	10.000.000	10.000.000	20.000.000	20.000.000	20.000.000	80.000.000
500-3	Supply, delivery and install DN300mm complete set electro-magnetic flowmeter including transmitter similar to Yokogawa AXF or approved equivalent for raw water delivery line, with flow indicator to be mounted on the upper deck of Intake's control room. To include not less than 10m of cable length between <i>meter and display</i> . The flowmeter model should support to SCADA and rate shall include necessary cables between flow meter and display.	unit	1	54.000.000	54.000.000	40.000.000	40.000.000	37.866.081	151.464.325
500-4	Supply, delivery and install DN200mm Surge anticipating control valve for raw water delivery line similar to Bermad series 700, model 735-55-M or approved equivalent.	unit	1	55.000.000	55.000.000	60.000.000	60.000.000	33.308.039	133.232.156
500-5	Supply and install Bermad Automatic Air Release valve DN50mm or equivalent at rising main high point of Intake's pumps.	unit	1	5.000.000	5.000.000	5.000.000	5.000.000	-	5.000.000
501	Pre-Sedimentation Tank at WTP site and associated equipment								
501-2	Supply and installation of 80mm diameter, lug type butterfly valves with pneumatic actuators (double acting actuator) for movement 90° on sludge extraction outlet pipes. Top flange connection shall confirm to ISO 5211. Limit switches shall be installed on the actuators for the conformation	set	9	17.500.000	157.500.000	6.000.000	54.000.000	6.000.000	24.000.000

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	electrical signal back to a PLC that a valve is opened or closed. Rate shall include for connection between air pipeline and pneumatic actuator.								
501-3	Supply & installation of air compressor, in accordance with the recommendation of the actuator manufacture to operate all actuated valves (two valves at a time), with necessary pipe-works to complete the installation between air-compressor and pneumatic actuator. Rate shall include for air-leak test on pipe works, testing, commissioning of air compressor, connecting pipes and actuators.	set	1	50.000.000	50.000.000	10.000.000	10.000.000	10.000.000	40.000.000
					267.500.000		114.000.000		107.113.374
502	Clear Water's Pump House at WTP site and associated equipment								
502-1	Supply, deliver and install Non-self-priming, single-stage, centrifugal pump designed according to ISO 5199 , each pump capable of delivering a Total flow, Q=359m3/hr against a Total Head, TDH=70m ; with a overall efficiency (minimum)= 78.0% , power 100kW ; required NPSH=3.38m , starting method with Soft start , Driven by appropriate electric motor to suit power supply of 380-415VAC, 3-Phase, 50Hz. Proposed pump shall be similar to Grundfos NKG 200-150-400/438 (with 4 pole motor) or approved equivalent. Rate shall include for all accessories necessary for the complete installation and operation as required and Provision for technician from supplier to visit site during initial installation and testing, and again at commissioning to ensure pump is set up correctly and operation of pumps &	unit	2	155.000.000	310.000.000	235.000.000	470.000.000	44.106.200	288.212.400

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	equipment is as per the project requirement.								
502-2	Provision for supply of spare parts for clear water pumps, required for next 5 years operation.	LS	1	15.000.000	15.000.000	20.000.000	20.000.000	-	15.000.000
502-3	Supply, delivery and install DN350mm complete set electro-magnetic flowmeter including transmitter similar to Yokogawa AXF or approved equivalent for clear water delivery line of the High-lift pump to On-ground reservoir 1150m ³ , with flow indicator to be mounted on the upper deck of the pump house. To include not less than 10m of cable length between <i>meter and display</i> . The flowmeter model should support to SCADA and Rate shall include necessary cables between flow meter and display.	unit	3	60.000.000	180.000.000	50.000.000	150.000.000	-	180.000.000
502-4	Supply, deliver and install Grundfos Hydro Solo-E booster set is a combined unit consisting of one Variable speed driven pump (CRE) fitted with:isolating valve, non-return valve, inlet and discharge pipe, Discharge pressure transmitter, pressure gauge, diaphragm tank, inlet pressure transmitter, Base frame with vibration dampers and Main power switch, each pump capable of delivering a Total flow, Q=20m³/hr against a Total Head, TDH=30m ; with a overall efficiency (minimum)= 64.0% , power 2.51kW ; required NPSH=2.89m , starting method with VFD , Driven by appropriate electric motor to suit power supply of 380-415VAC, 3-Phase, 50Hz. Proposed pump shall be similar to Grundfos Hydro Solo-E CRIE 15-2 HQQE or equivalent. Rate shall include for	unit	1	46.000.000	46.000.000	40.000.000	40.000.000	-	46.000.000

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	all accessories necessary for the complete installation and operation as required and Provision for technician from supplier to visit site during initial installation and testing, and again at commissioning to ensure pump is set up correctly and operation of pumps & equipment is as per the project requirement.								
502-5	Supply, delivery and install of complete set of DN50mm electro-magnetic flowmeter including transmitter similar to Yokogawa AXF or equivalent for delivery line of booster pump, with flow indicator to be mounted on the upper deck of the building. Including signal cable of not less than approx 15m of cable length between meter and indicator. The flowmeter model should support SCADA and Rate shall include necessary cables between flow meter and display.	unit	1	15.000.000	15.000.000	15.000.000	15.000.000	-	15.000.000
502-6	Supply and install Double Orifice Air valve DN80mm or equivalent at main discharge pipe of CWT's pumps.	unit	1	8.000.000	8.000.000	2.000.000	2.000.000	-	8.000.000
502-7	Supply and install Bermad Automatic Air Release valve DN25mm or equivalent at meter chamber of CWTe's pumps.	unit	1	3.000.000	3.000.000	5.000.000	5.000.000	-	3.000.000
				-	577.000.000		702.000.000		-
503	Blowers and backwash equipment at WTP								
503-1	Supply and install positive displacement type air blower system as per specification, complete with noise reduction chamber, connecting pipe, check valve, filter, control panel etc. Capable of delivering air at Flow, Q=1134 m3/hr at a pressure of not less than 700mbar , with an efficiency (minimum) 55% , driven by a suitable motor for power	unit	1	55.000.000	55.000.000	60.000.000	60.000.000	60.000.000	60.000.000

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	supply of 380-415VAC, 3-Phase, 50Hz.								
503-2	Supply, deliver and install Non-self-priming, single-stage centrifugal pump with radial suction and radial discharge port, each pump capable of delivering a Total flow, Q=450m3/hr against a Total Head, TDH=9m; Rotation Direct: CW; with a overall efficiency (minimum)= 68%, power 17 kW; starting method with Soft start, Driven by appropriate electric motor to suit power supply of 380-415VAC, 3-Phase, 50Hz. Proposed pump shall be similar to Grundfos LS 250-200-305C or approved equivalent. Rate shall include for all accessories necessary for the complete installation and operation as required and Provision for technician from supplier to visit site during initial installation and testing, and again at commissioning to ensure pump is set up correctly and operation of pumps & equipment is as per the project requirement.	unit	2	65.000.000	130.000.000	75.000.000	150.000.000	44.175.500	88.351.000
503-3	Provision for supply of spare parts for backwashing pumps required for next 5 years of operation.	LS	1	10.000.000	10.000.000	10.000.000	10.000.000	10.000.000	10.000.000
503-4	Supply and install DN150mm air venturi meter, similar to Yokogawa or approved equivalent, to measure the air flow rate and pressure, through the main air pipeline from blower pump to filter tanks, including venturi flow tube, differential pressure transmitter (max.:2,000mm H ₂ O), 5 valves manifold, including all necessary fittings and accessories. The flowmeter model should support to SCADA and Rate shall include necessary cables between flow meter and	set	1	38.000.000	38.000.000	40.000.000	40.000.000	21.211.011	21.211.011

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	display.								
503-5	Supply, delivery and install DN350mm complete set electro-magnetic flowmeter including transmitter similar to Yokogawa AXF or approved equivalent for clear water delivery line of the Backwash pump to filters, with flow indicator to be mounted on the upper deck of the pump house. To include not less than 10m of cable length between <i>meter and display</i> . The flowmeter model should support to SCADA and Rate shall include necessary cables between flow meter and display.	unit	3	60.000.000	180.000.000	50.000.000	150.000.000	40.002.606	120.007.819
504	Portable submersible pump for draining at WTP								
504-1	Supply and deliver submersible sump pump with flexible hose of 20m, capable of delivering a Total flow, Q=20 m3/hr against a Total Head, TDH=20 m ; with a overall efficiency (minimum) 40.0% , Similar to Grundfos pumps DWK.O.100.80 or approved equivalent. Driven by appropriate submersible electric motor of minimum motor for power of 220-240VAC, 1-Phase, 50Hz., Cable length of not less than 20m , of Super Vortex type impeller pump and capable of free passage of solid particle up to 20mm. or equivalent, including all other accessories necessary for the complete installation and operation as required. Include provision for technician from supplier to visit site during initial installation and testing, and again at commissioning to ensure pump is set up correctly and operation	unit	1	12.000.000	12.000.000	15.000.000	15.000.000	19.800.000	19.800.000

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	of completely installed pumping equipment.								
505	Dosing and Mixing systems								
505-1	1 only PAC dosing system, complete; including three mixing tanks (1000 litres/each) with box support for the tanks with three mixers as shown on drawings No.: MH-10 (each 60rpm) , three chemical peristaltic dosing pumps; similar to Qdos120 or equivalent; Q=70 l/hr; including flexible chemical resistant hosing for the suction line and ABS 18mm pipe for the discharge line, overflow pipe (if line is blocks, chemical will retern to the tank), plant water supply line for mixing of chemicals, valves, non-returned valves, injection point, fittings and accessories, piping to dosing injection points (static mixer chamber) and dosing weir (inlet chamber of pre-sedimentation tank) protected from direct sunlight, all pipes and fittings as per drawings.	set	1	125.000.000	125.000.000	25.000.000	25.000.000	25.000.000	25.000.000
505-2	1 only hypochlorite dosing system, complete; including two mixing tanks (1000 litres/each) and box support for the tanks with two mixers as shown on drawings No.: FF-22 (each 60rpm) , two chemical peristaltic dosing pump; similar to Qdos 120 or approved equivalent; Q=70 l/hr; including flexible chemical resistant hosing for the suction line and ABS 18mm pipe for the discharge line, overflow line (if line is blocks, chemical will retern to the tank), plant water supply line for mixing of chemicals, valves, injection point, fittings and accessories, piping to dosing injection	set	1	82.000.000	82.000.000	25.000.000	25.000.000	25.000.000	25.000.000

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	point protected from direct sunlight, & all pipes and fittings as per drawings.								
505-3	Provision for supply of spare parts for above item 505.1 & 505.2 dosing pumps & mixers.	LS	1	12.000.000	12.000.000	5.000.000	5.000.000	5.000.000	5.000.000
505-4	Supply and install KOMAX of DN 350mm Static Mixer with 4 number of mixing elements,. A-series with side port flanged DN18mm, stainless material grade 316, with 3 elements, max. pressure drop not more than 1 meter or equivalent (both ends flanged, including bolts, washer, nuts, joints and accessories) or equivalent.	unit	1	65.000.000	65.000.000	32.000.000	32.000.000	37.060.828	37.060.828
				-	284.000.000	-			
506	Chain hoist, lifting equipment								
506-1	Supply and install electrical chain hoist set directly over the pumps, including H beam and accessories at Tower Intake , with the capacity of 2000 kg and the maximum lift of 20 meters	set	1	20.000.000	20.000.000	3.000.000	3.000.000	17.519.730	17.519.730
506-2	Supply and install jip crane with manual chain hoist set at the Intake channel with the capacity of 2000 kg and the maximum lift of 5 meters	set	1	22.000.000	22.000.000	3.000.000	3.000.000	11.708.007	11.708.007
506-3	Supply and install manual chain hoist set, including H beam and accessories for High lift pumps in Pump house of CWT at WTP, with the capacity of 3000 kg and the maximum lift of 10 meters	set	1	14.000.000	14.000.000	5.000.000	5.000.000	22.932.424	22.932.424
506-4	Supply and install manual chain hoist set, including H beam and accessories for Chlorine dosing system at WTP, with the capacity of 1000 kg and the maximum lift of 10 meters	set	1	8.000.000	8.000.000	3.000.000	3.000.000	11.875.991	11.875.991
507	DMA for Pipeline Network								

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
507-1	Supply, delivery and install DN200mm electro-magnetic flowmeter similar to Yokogawa AXF or approved equivalent for DMA1 (M1) at Sta 0+000 of NT-PL-03 , including appropriate and necessary spool piece pipes, valves, fittings, data locker, electric cable between between meter to indicator and accessories. The flowmeter model should supprt to SCADA and Rate shall include necessary cables between flow meter and display.	unit	1	45.000.000	45.000.000	40.000.000	40.000.000	28.453.046	28.453.046
507-2	Supply, delivery and install DN160mm electro-magnetic flowmeter similar to Yokogawa AXF with build in data locker and battery or approved equivalent for DMA2 (M2) at Sta 0+000 of NT-PL-07 , including appropriate and necessary spool piece pipes, valves, fittings, electric cable between between meter to indicator and accessories. The flowmeter model should supprt to SCADA and Rate shall include necessary cables between flow meter and display.	unit	1	35.000.000	35.000.000	25.000.000	25.000.000	23.739.996	23.739.996
507-3	Supply, delivery and install DN400mm electro-magnetic flowmeter similar to Yokogawa AXF with build in data locker and battery or approved equivalent for DMA3 (M3) at Sta 0+500 of NT-PL-06 , including appropriate and necessary spool piece pipes, valves, fittings, electric cable between between meter to indicator and accessories. The flowmeter model should supprt to SCADA and Rate shall include necessary cables between flow meter and display.	unit	1	80.000.000	80.000.000	60.000.000	60.000.000	48.776.589	48.776.589

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
508	Laboratory Equipment								
508-1	Coagulant testing equipment: Jar stirrers which must be comprised of power supply, controller hub (controls up to 6 glass jars), and four glass jars with individual jar lighting, programmable with built in G calibration. Supplied with operations manual, jar cleaning swab and chamois leather cloth, and 12 month warranty, these stirrers should be built with CE certification and RoHS Standards or equivalent.	set	1	17.000.000	17.000.000	30.000.000	30.000.000	35.000.000	35.000.000
508-2	pH meter with cable connected probe and buffer calibration solutions (500ml each of pH 7, and pH 10) and 50 each powder pillows (pH7 and 10) for making up buffer solutions	set	1	9.000.000	9.000.000	6.000.000	6.000.000	2.315.250	2.315.250
508-3	Comparator type pH tester with phenol red indicator in foil wrapped tablets (box of 250 per box-supply 10 boxes). The tester should be calibrated in approximately 0.2-0.3 increments up to pH 8.0.	set	1	2.500.000	2.500.000	5.500.000	5.500.000	2.315.250	2.315.250
508-4	Comparator type free chlorine tester with DPD no. 1 indicator foil wrapped tablets (box of 250 per box-supply 20 boxes). The tester should be calibrated in approximately 0.2-0.3 increments up to about 4.0.mg/l.	LS	1	2.500.000	2.500.000	5.500.000	5.500.000	2.315.250	2.315.250
508-5	One litre of 10g/litre alum solution (1%). Sample should be approved prior to the purchase.	each	1	5.500.000	5.500.000	1.000.000	1.000.000	337.500	337.500
508-6	Three only polycarbonate 1 liter capacity Imhoff Cones and stand to hold the cones.	each	3	5.400.000	16.200.000	1.000.000	3.000.000	302.400	907.200
508-7	One laboratory digital top weighing balance 0-200gms accuracy +/- 0.5g	one	1	4.000.000	4.000.000	1.000.000	1.000.000	1.000.000	1.000.000
508-8	Turbidity measurement: portable turbidity meter Hach brand Model 2100P or	set	1	13.000.000	13.000.000	2.500.000	2.500.000	23.625.000	23.625.000

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	equivalent multiple range capacity from 1 to 1000 NTU complete with power supply connector and one set of batteries.								
509	Miscellaneous equipment								
509-1	Polycarbonate measuring cylinders 500 ml	each	2	1.000.000	2.000.000	300.000	600.000	774.900	1.549.800
509-2	Polycarbonate measuring cylinders 250ml	each	2	800.000	1.600.000	300.000	600.000	737.100	1.474.200
509-3	Polycarbonate measuring cylinders 100ml	each	3	650.000	1.950.000	300.000	900.000	595.350	1.786.050
509-4	Polycarbonate measuring cylinders 50ml	set	3	550.000	1.650.000	250.000	750.000	595.350	1.786.050
509-5	One each of the following polycarbonate medical syringes (minus needle): 0-1ml, 0-5ml, 0-10mls, 0-20mls	set	10	1.000.000	10.000.000	100.000	1.000.000	25.000	250.000
509-6	1 each of the following beaker sizes: 100ml, 250ml,	set	4	1.750.000	7.000.000	150.000	600.000	113.400	453.600
509-7	One (2-3 liters capacity) large polycarbonate/ plastic jugs (household equipment standard with handle).	each	2	1.200.000	2.400.000	100.000	200.000	113.400	226.800
509-8	Twaddle hydrometer to be used for up to 15% PAC solution	each	1	5.000.000	5.000.000	1.200.000	1.200.000	810.000	810.000
510	Instruments								
510-01	DN350mm Altitude Valve (Level Control Valve with Altitude Pilot with Stainless Steel Sensing Tube Connection to On-ground Reservoir 1150m3, including all accessories.	set	1	50.000.000	50.000.000	5.000.000	5.000.000	29.528.580	29.528.580
510-02	DN200mm Altitude Valve (Level Control Valve with Altitude Pilot with Stainless Steel Sensing Tube Connection to Elevated Reservoir 900m3, including all accessories.	set	1	35.000.000	35.000.000	5.000.000	5.000.000	8.392.840	8.392.840
510-03	Manometers (Pressure gauges) on pump manifold, as shown on the drawings.	set	8	1.000.000	8.000.000	2.000.000	16.000.000	2.000.000	16.000.000
510-04	Pressure switch on pump manifold, as shown on the drawings.	set	3	1.500.000	4.500.000	1.500.000	4.500.000	1.500.000	4.500.000
					86.394.750		27.026.050		56.086.470

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
511	Provision Sump for quantity variation and items variation under Bill no. 5	PS	6%		109.889.692		111.222.940		
	Total for Bill No. 5: Supply and Installation of Mechanical Works				2.307.683.522		2.224.458.794		2.050.544.741

ໃບຄິດໄລ່ລາຄາທີ 6

ອ່າງເກັບນ້ຳ

Item No.	Descriptions	Unit	Qty	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	Supply & installation rates of all materials, plants, equipment shall include: (i) All materials, plants, equipment, supplied under this bill, shall be brand new and from the original source. (ii) Material cost, transport (up to the installation location), insurance, handling, storing etc. (iii) Testing of materials & submission of test reports prior to shipping, third party certification, all other documentation. (iv) Custom clearing and dealing with local authorities for formal approval etc. (v) The contractor is responsible to check the BOQ with tender/design drawings prior to pricing of BOQ. If unit indicates “set”, the rate of the item shall include for all the labour, materials, plants & equipment, required to complete such item, as per the specification and tender/design drawings to fulfill the purpose. (vi) It is assume that rates for items, shown in drawings &/or specified in the technical specification, and not specified in the BOQ, are included in other rates (stated below), furnished in the bid. (vii) QA/QC of the construction (Concrete mix design and other all tests such as compaction test, concrete cube/cylinder test, testing of reinforcement etc.) (viii) Water retaining structures shall be tested for water-tightness in accordance with BS8007. (ix) Cleaning & disinfection of water retaining structures after the water-tightness testing. (x) Provision of water-bars for construction joints (xi) Testing & commissioning of plants & equipment after installation.								
600	Elevated Reservoir 900m ³ at Ban Namthouamtai								
*	Earthworks.								
600-1	Excavation of gravel/sand/clay mixtures down to levels shown for drawings.	m3	107	26.583	2.844.381	15.950	1.706.629	18.810	2.012.624
600-2	Extra over 600-2 for rock excavation and/or reinforced concrete structures around construction site as required. Includes disposal off-site at an approved location (Provisional quantity)	m3	10	88.610	886.100	88.610	886.100	80.293	802.925
600-3	Backfill compaction for soil excavation	m3	52	22.153	1.151.930	35.444	1.843.088	19.457	1.011.784

Item No.	Descriptions	Unit	Qty	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	around the foundation up to Construction level.								
600-4	Sand cushion and compaction under foundation as defined in the drawings.	m3	5	132.915	664.575	53.166	265.830	118.178	590.889
*	Piling Work.								
600-5	Mobilization and De-mobilization of drilling rig	LS	1	39.874.500	39.874.500	13.291.500	13.291.500	-	39.874.500
600-6	Construction reinforced concrete- Class A Bore pile Φ 500mm, Depth 19,000mm or the actual depth to be decided by the Engineer.	m	456	1.107.625	505.077.000	1.639.285	747.513.960	768.308	350.348.448
600-7	Pile Integrity test.	pile	24	443.050	10.633.200	310.135	7.443.240	-	10.633.200
600-8	Pile head preparation.	pile	24	265.830	6.379.920	575.965	13.823.160	321.012	7.704.288
600-9	Dynamic Pile Load test.	LS	1	26.583.000	26.583.000	48.735.500	48.735.500	-	26.583.000
*	Concrete works								
600-10	Lean concrete- Class C (16MPa) under foundation of the reservoir as defined in the drawings	m3	4	664.575	2.844.381	531.660	2.275.505	863.505	3.695.801
600-11	Reinforced concrete -Class B (25MPa)- for pile cap	m3	47	2.658.300	125.471.760	2.481.080	117.106.976	3.078.661	145.312.811
600-12	Reinforced concrete-Class B (25MPa) for Columns (C1), Ring beams (B4) and Meter chamber- using formwork class F2	m3	103	2.658.300	274.336.560	2.658.300	274.336.560	3.078.661	317.717.841
600-13	Reinforced concrete-Class A (30MPa) with waterproofing admixture for Ring beams (B1-B3), wall, fin & top slab of tank, interior stair and central support - using formwork class F2	m3	181	2.746.910	497.328.056	2.658.300	481.285.215	3.078.661	557.391.619
600-14	Reinforced concrete-Class B (25MPa) for Landing - using formwork class F2	m3	4	2.658.300	11.218.026	2.481.080	10.470.158	3.078.661	12.991.950
600-15	Seal block to be anchoring including Joint	m3	1	2.746.910	1.373.455	2.481.080	1.240.540	3.078.661	1.539.331

Item No.	Descriptions	Unit	Quanty	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	seal of inlet, outlet & drain pipe Class A (30MPa)								
600-16	Mass Concrete - Class C (16MPa)	m3	8	2.215.250	18.785.320	531.660	4.508.477	863.505	7.322.522
600-17	Supply, mix and apply cementitious waterproofing coating to interior surface of the tank up to HWL.	m2	412	39.875	16.417.129	35.444	14.593.004	38.439	15.826.112
600-18	Supply and fix specified Water stop to be named Dr. Fixit Water bar WS 2020 (20x20mm) Around the basin wall at each concrete joint (3stages)	m	176	97.471	17.154.896	115.193	20.273.968	67.480	11.876.480
*	Supply, install include laying & excavation pipes, fittings, valves, accessories, concrete support, thrust blocks as shown on the drawings								
*	Inlet - Outlet pipes & fittings								
600-19	DN250mm DCI flanged Pipes including bends, dismantling couplings, bolts, washer, nuts, joints, gaskets, other accessories, supports to tank, trust & support blocks from lower end of puddle pipe to transmission main (upto 45 deg. Bend) connection.	m	50	716.855	35.842.745	620.270	31.013.500	607.580	30.379.004
600-20	Bell mouth DCI DN250mm	set	1	790.047	790.047	2.038.030	2.038.030	2.215.093	2.215.093
600-21	Dismantling joint DCI DN250mm	set	2	1.462.065	2.924.130	2.481.080	4.962.160	704.000	1.408.000
600-22	Double flanged pipe with Puddle flange DCI DN250mm	set	1	3.219.556	3.219.556	2.906.408	2.906.408	2.238.104	2.238.104
600-23	Dismantling joint DCI DN200mm	set	1	886.100	886.100	2.215.250	2.215.250	653.000	653.000
600-24	Gate valve DN250mm with hand wheel	set	1	1.967.142	1.967.142	3.101.350	3.101.350	3.902.037	3.902.037
600-25	Double flanged Bend 90° DCI DN250mm	set	3	894.961	2.684.883	1.993.725	5.981.175	1.814.482	5.443.447
600-26	Double flanged Bend 45° DCI DN250mm	set	2	956.988	1.913.976	1.993.725	3.987.450	1.995.931	3.991.861
600-27	Flanged equal Tee DCI 250x250x250mm	set	2	1.789.922	3.579.844	3.189.960	6.379.920	3.515.795	7.031.590
600-28	Check valve DCI DN250mm	set	1	2.853.242	2.853.242	5.139.380	5.139.380	6.613.642	6.613.642

Item No.	Descriptions	Unit	Qty	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
600-29	Check valve DCI DN200mm	set	1	2.312.721	2.312.721	3.234.265	3.234.265	4.045.123	4.045.123
600-30	Double flanged Reducer DCI DN250/200mm	set	2	1.107.625	2.215.250	1.196.235	2.392.470	1.286.266	2.572.533
600-31	Double flanged Pipe DCI DN250mm (L=0.5m-1.5m) with RC.Box support as show on drawing	set	4	2.872.116	11.488.464	3.987.450	15.949.800	3.335.718	13.342.870
600-32	Double flanged Pipe DCI DN250mm (L=1.5m)	set	1	3.953.778	3.953.778	2.906.408	2.906.408	3.335.718	3.335.718
600-33	Stub flanged with backing ring DN 250mm for Connection DCI & HDPE pipes (connected with NT-PL-06 HDPE pipe DN250mm)	set	1	609.194	609.194	1.329.150	1.329.150	714.000	714.000
*	Pipe for drain, overflow pipes & fittings								
600-34	DN100mm DCI flanged Pipes including bends, tee, valves, dismentalling couplings, bolts, washer, nuts, joints, gaskets, other accessories, supports to tank, trust & support blocks from lower end of puddle pipes (overflow and drain pipes) to nearest open drain at site.	m	50	318.996	15.949.800	310.135	15.506.750	282.220	14.110.989
600-35	DN100mm DCI Bell mouth	set	2	194.942	389.884	443.050	886.100	578.261	1.156.522
600-36	DN100mm DCI Double flanged pipe with Puddle flanges as per drawings	set	2	1.063.320	2.126.640	1.196.235	2.392.470	711.734	1.423.468
600-37	DN100mm Flanged 90° bend as shown in drawing	set	4	1.417.760	5.671.040	575.965	2.303.860	431.981	1.727.925
600-38	DN100mm Flanged 45° bend as shown in drawing	set	4	1.417.760	5.671.040	575.965	2.303.860	410.207	1.640.830
600-39	Dismantling joint DCI DN100mm	set	4	886.100	3.544.400	1.196.235	4.784.940	279.000	1.116.000
600-40	Gate valve DN100mm with hand wheel	set	1	691.158	691.158	1.329.150	1.329.150	1.025.062	1.025.062
600-41	Flanged equal Tee DCI 100x100x100mm	set	1	716.146	716.146	1.063.320	1.063.320	831.786	831.786
*	Steel works and miscellaneous			0	-	0	0		
600-42	Manhole cover, steel cover, and other	LS	1	2.215.250	2.215.250	7.088.800	7.088.800	-	2.215.250

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	accessories in compliance with drawings								
600-43	Ventilation hole, hollow block, screen , steel cover and other accessories in compliance with drawings	LS	1	5.316.600	5.316.600	4.430.500	4.430.500	-	5.316.600
600-44	Supply and install Galvanized Steel Ladder No.1, Stainless Steel (304) Handrail 1.20m high at top of tank and Steel Cage from +21.70m (383.70) up to +28.88 m (390.88) as shown on drawings	set	1	8.861.000	8.861.000	13.291.500	13.291.500	-	8.861.000
600-45	Supply and install Galvanized Steel LadderNo. 2, No.3, Stainless Steel (304) Handrail 1.20m high and Steel Cage at Level: ±0.00(362.00),+5.40 (367.40), +9.90 (371.90), +14.40 (376.40), +21.70 (383.70)	set	4	4.430.500	17.722.000	10.633.200	42.532.800	-	17.722.000
600-46	Supply and install Stainless steel ladder (AISI grade 316) inside tank	set	1	7.088.800	7.088.800	6.202.700	6.202.700	-	7.088.800
600-47	Supply and installation water level indicator and other accessories in compliance with drawings	set	1	4.430.500	4.430.500	4.430.500	4.430.500	-	4.430.500
					1.716.659.518		1.963.683.374		1.669.788.876
601	Outdoor works of Elevated Reservoir								
*	Site preparation								
601.-1	Site clearance for construction around ER before and after construction offset 2m from boundary of site	m2	680	4.431	3.012.740	2.658	1.807.644	3.127	2.126.507
*	Earth works for ER area								
601-02	Excavation of gravel/sand/clay mixtures down to levels shown on the drawings for the full area. Includes transportation and disposal of excess material at an approved location off-site.	m3	170	26.583	4.519.110	15.950	2.711.466	18.810	3.197.627

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
601-03	Extra over rate 601-02 for rock excavation and/or reinforced concrete structures around entire ER site as required. Includes disposal off-site at an approved location (Provisional quantity).	m3	10	88.610	886.100	88.610	886.100	80.293	802.925
601-04	Backfill and compaction of soil around structures up to RLs as shown on drawings.	m3	142	22.153	3.145.655	35.444	5.033.048	19.457	2.762.947
*	RC Stair to ER site								
601-05	RC. Stair in side the fence for way down to Elevated tank including lean concrete and Hand rail high=1.10m, made by GSP (BS1387) DN40mm for landing/stair including accessories and 3coats of oil paint and anti-rust as shown on drawingsas	LS	1	24.810.800	24.810.800	22.152.500	22.152.500	24.810.800	24.810.800
*	Entrance gate and Fences								
601-06	Entrance Gate (type 2) with 2 columns including painting and other accessories in compliance as shown on drawings	LS	1	7.088.800	7.088.800	13.291.500	13.291.500	7.088.800	7.088.800
601-07	Fence No. 2 around ER (chain link fencing) as specify on the standard drawings.	m	105	354.440	37.216.200	239.247	25.120.935	134.960	14.170.800
*	Pavement areas inside ER			0	-	0	0		
601-08	Soil compacted & gravel pavement 25-30mm thickness for the area, as shown on ER Master Plan drawings.	m2	210	44.305	9.304.050	132.915	27.912.150	54.347	11.412.960
601-09	Grass planting including backfill with top soil (10cm thickness) on slope protection and site as shown on the drawings.	m2	330	26.583	8.772.390	35.444	11.696.520	125.320	41.355.600
					98.755.845		110.611.863		107.728.966
602	On Ground Reservoir 1150m³ at Ban								

Item No.	Descriptions	Unit	Quanty	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	Namkhan								
*	Earth works for Foundation								
602-01	Excavation of gravel/sand/clay mixtures down to levels shown on the drawings. Includes transportation and disposal of excess materials upto 10 km at an approved location off-site.	m3	355	26.583	9.436.965	15.950	5.662.179	18.810	6.677.397
602-02	Rock excavation for above item as required. Includes transportation and disposal of excess materials upto 10 km at an approved location off-site. (Provisional quantity)	m3	10	22.153	221.525	88.610	886.100	80.293	802.925
602-03	Backfilling around the structure (except working space) with selected excavated materials with 95% compaction.	m3	50	132.915	6.645.750	35.444	1.772.200	19.457	972.869
602-04	Sand compacted under outlet chamber and drain chamber	m3	3	44.305	132.915	53.166	159.498	95.228	285.683
*	Concrete works								
602-05	Lean concrete - Class C (16MPa) under foundation of the Inlet valve chamber as defined in the drawings	m3	13	664.575	8.307.188	531.660	6.645.750	863.505	10.793.812
602-06	Reinforced concrete -Class A (30MPa)- for bottom slab, drain valve chamber etc...using formwork class F1	m3	85	2.658.300	225.955.500	2.038.030	173.232.550	3.078.661	261.686.206
602-07	Reinforced concrete-Class A (30MPa) with waterproofing admixture for Ring beams (B1-B2), wall, top slab of tank and inlet valve chamber - using formwork class F2	m3	140	2.658.300	372.162.000	2.303.860	322.540.400	3.078.661	431.012.575
*	Cementitious waterproofing & waterstop								
602-08	Supply, mix and apply cementitious	m2	601	39.875	23.964.575	35.444	21.301.844	38.439	23.101.850

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	waterproofing coating to interior surface of the tank up to HWL.								
602-09	Supply and fix specified Water stop to be named Dr. Fixit Water bar WS 2020 (20x20mm) Around the basin wall at each concrete joint (6stages)	m	297	97.471	28.948.887	115.193	34.212.321	67.480	20.041.560
*	Supply, install include laying & excavation pipes, fittings, valves, accessories, concrete support, thrust blocks as shown on the drawings								
*	Inlet pipes & fittings								
602-10	DN350mm DCI Double flanged pipe with Puddle flanges as per the drawing.	set	1	3.057.045	3.057.045	5.759.650	5.759.650	3.013.306	3.013.306
602-11	DCI DN 350mm Double Flanged pipe (L = Less than 2.5m)	set	2	3.340.597	6.681.194	6.911.580	13.823.160	4.808.717	9.617.434
602-12	DN350mm Flanged 90° bend (Outside the tank)	set	1	2.587.412	2.587.412	3.101.350	3.101.350	3.267.988	3.267.988
602-13	DCI DN350mm Flanged 45° bend	set	2	2.144.362	4.288.724	3.101.350	6.202.700	2.985.805	5.971.609
602-14	DCI DN350mm Flanged Spigot pipe (L = Less than 2.5m)	set	4	2.658.300	10.633.200	6.911.580	27.646.320	4.808.717	19.234.868
602-15	DN350mm Flexible Coupling	set	2	1.577.258	3.154.516	3.987.450	7.974.900	1.611.000	3.222.000
602-16	DN350mm Dismantling Joint	set	1	2.932.991	2.932.991	3.101.350	3.101.350	1.697.000	1.697.000
602-17	DN350mm Butterfly valve	set	1	6.690.055	6.690.055	3.367.180	3.367.180	4.143.642	4.143.642
602-18	DN350mm Swing check valve	set	1	4.607.720	4.607.720	15.949.800	15.949.800	20.766.296	20.766.296
602-19	DN350mm DCI Bell mouth (Inside the tank)	set	1	1.019.015	1.019.015	3.987.450	3.987.450	2.643.478	2.643.478
602-20	DN350mm Flanged 90° bend (Inside the tank)	set	1	2.587.412	2.587.412	3.101.350	3.101.350	3.267.988	3.267.988
602-21	RC. Box support pipe	set	2	443.050	886.100	310.135	620.270	103.332	206.664
602-22	HDPE DN63mm PE100 PN6 for Drain	m	10	28.355	283.552	26.583	265.830	19.725	197.245

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	inlet valve chamber								
*	Outlet pipes & fittings								
602-23	DN400mm DCI Bell mouth (Inside the tank)	set	1	1.284.845	1.284.845	4.120.365	4.120.365	1.284.845	1.284.845
602-24	DN400mm Flanged 90° bend (Inside the tank)	set	1	3.260.848	3.260.848	3.367.180	3.367.180	4.557.281	4.557.281
602-25	DN400mm DCI Double flanged pipe with Puddle flanges as per the drawing.	set	1	4.279.863	4.279.863	5.582.430	5.582.430	6.470.553	6.470.553
602-26	DCI DN400mm Flanged Spigot pipe (L = Less than 2.5m)	set	2	3.349.458	6.698.916	4.607.720	9.215.440	4.675.142	9.350.283
602-27	DN400mm Gate valve, including spindle extension with headstock	set	1	8.736.946	8.736.946	10.633.200	10.633.200	14.707.407	14.707.407
602-28	DN400mm Flanged Adaptor	set	1	2.605.134	2.605.134	2.835.520	2.835.520	2.003.000	2.003.000
602-29	DN400mm Flanged 90° bend (Outside the tank)	set	1	3.260.848	3.260.848	3.367.180	3.367.180	4.557.281	4.557.281
602-30	DN400mm Flexible Coupling	set	1	1.772.200	1.772.200	4.120.365	4.120.365	2.003.000	2.003.000
602-31	HDPE Stub flange with Backing ring DN 400mm	set	1	2.658.300	2.658.300	2.215.250	2.215.250	2.090.000	2.090.000
*	Pipe for drain, overflow pipes & fittings								
602-32	DCI DN200mm flanged pipe	m	8	363.301	2.906.408	398.745	3.189.960	462.220	3.697.759
602-33	HDPE DN200mm PE100 PN6, including bends, gaskets, other accessories to nearest open drain at site.	m	50	127.776	6.388.781	124.054	6.202.700	164.943	8.247.173
602-34	DN200mm DCI Bell mouth	set	1	469.633	469.633	1.329.150	1.329.150	1.705.280	1.705.280
602-35	DN200mm DCI Double flanged pipe with Puddle flanges as per drawings	set	1	1.710.173	1.710.173	2.179.806	2.179.806	1.629.271	1.629.271
602-36	DN200mm DCI flanged spigot pipe with Puddle flanges as per drawings	set	2	841.795	1.683.590	2.179.806	4.359.612	557.382	1.114.764
602-37	DCI DN 200mm Double Flanged pipe (L = Less than 2.5m)	set	1	2.348.165	2.348.165	3.101.350	3.101.350	771.760	771.760
602-38	DN200mm Flanged 90° bend (Inside the	set	1	956.988	956.988	1.594.980	1.594.980	1.124.979	1.124.979

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	tank)								
602-39	DN200mm Flanged 90° bend (Outside the tank)	set	1	956.988	956.988	1.594.980	1.594.980	1.124.979	1.124.979
602-40	DN200mm Gate valve, including spindle extension with headstock	set	1	4.873.550	4.873.550	2.835.520	2.835.520	2.767.901	2.767.901
602-41	Stub flanged with backing ring DN 200mm for Connection DCI & HDPE pipes.	set	1	443.050	443.050	1.063.320	1.063.320	253.727	253.727
*	Steel works and miscellaneous								
602-42	Manhole cover, steel cover, and other accessories in compliance with drawings	LS	1	4.430.500	4.430.500	7.088.800	7.088.800	-	4.430.500
602-43	Ventilation hole, hollow block, screen , steel cover and other accessories in compliance with drawings	LS	1	4.430.500	4.430.500	4.430.500	4.430.500	-	4.430.500
602-44	Supply and install Galvanized Steel Ladder, Stainless Steel (304) Handrail 1.20m high at top of tank and Steel Cage as shown on drawings	set	2	8.861.000	17.722.000	13.291.500	26.583.000	8.861.000	17.722.000
602-45	Supply and install Stainless steel ladder (AISI grade 316) inside tank	set	1	7.088.800	7.088.800	6.202.700	6.202.700	7.088.800	7.088.800
602-46	Supply and install steel grating over the valve chamber including lockable manhole size 100x80cm	m2	8	221.525	1.772.200	443.050	3.544.400	221.525	1.772.200
602-47	Supply and install Galvanized Steel ladder for Inlet and Drain valve chambers	set	3	886.100	2.658.300	3.544.400	10.633.200	886.100	2.658.300
602-48	Supply and installation water level indicator and other accessories in compliance with drawings	set	1	4.430.500	4.430.500	4.430.500	4.430.500	4.430.500	4.430.500
					825.012.266		797.135.560		944.618.438
603	Outdoor works of On Ground Reservoir								
*	Site preparation								
603.-1	Site clearance for construction around ORT before and after construction offset 2m from boundary of ORT	m2	3.616	4.431	16.020.688	2.658	9.612.413	3.127	11.308.013

Item No.	Descriptions	Unit	Quanty	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
*	Earth works for ORT area								
603-02	Excavation of gravel/sand/clay mixtures down to levels shown on the drawings for the full WTP area and access road inside WTP. Includes transportation and disposal of excess material at an approved location off-site.	m3	20	26.583	531.660	15.950	318.996	18.810	376.191
603-03	Extra over rate 401-9 for rock excavation and/or reinforced concrete structures around entire WTP site as required. Includes disposal off-site at an approved location (Provisional quantity).	m3	10	88.610	886.100	88.610	886.100	80.293	802.925
603-04	Backfill and compaction of soil around all WTP structures up to RLs included backfill of access road as shown on drawings.	m3	200	22.153	4.430.500	35.444	7.088.800	19.457	3.891.475
*	Drain channels								
603-05	RC. drain channels (type drain No.2) including cover slab at entrance gate as shown on Drwg. No.: ORG-02	m	4	575.965	2.303.860	443.050	1.772.200	555.230	2.220.921
603-06	Stone masonry open channel drain (type drain No.1) around ORT area down to river as shown on drawings as specified in Standard drawing	m	280	354.440	99.243.200	310.135	86.837.800	341.680	95.670.445
*	Entrance gate and Fences								
603-07	Entrance Gate (type 2) in ORG including painting, sign board decorated with granite, washed gravel and carved letters, steel sliding gate with accessories, 2 glass bulb on the columns at the main gate in compliance with the issued drawings	LS	1	13.291.500	13.291.500	13.291.500	13.291.500	-	13.291.500
603-08	Fence No. 2 around ORG (chain link	m	240	354.440	85.065.600	239.247	57.419.280	134.960	32.390.400

Item No.	Descriptions	Unit	Quanty	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	fencing) as specify on the standard drawings.								
*	Pavement areas inside ORT								
603-09	Soil compacted & gravel pavement 25-30mm thickness for internal roads, yard & parking areas, as shown on ORG Master Plan drawings.	m2	680	44.305	30.127.400	132.915	90.382.200	54.347	36.956.251
*	Access Road No. 3 to the ORT - RC Road (265m)								
603-10	Site clearing including removal of stumps <500mm	m2	1.590	4.431	7.044.495	2.658	4.226.697	3.127	4.972.273
603-11	Soil excavation	m3	2.840	26.583	75.495.720	13.292	37.747.860	18.810	53.419.173
603-12	Extra over 603-11 for rock excavation and/or reinforced concrete structures around construction site as required. Includes disposal off-site at an approved location (Provisional quantity)	m3	50	88.610	4.430.500	88.610	4.430.500	80.293	4.014.626
603-13	Embankment	m3	-	31.014		70.888			
603-14	Sub-base Thickness 150mm, Compacted 95%-CBR>25%.	m3	179	106.332	19.033.428	115.193	20.619.547	54.347	9.728.190
603-15	Reinforced concrete - Class A (30MPa) for road surface with 150mm thickness.	m3	146	2.658.300	388.111.800	1.329.150	194.055.900	3.078.661	449.484.542
603-16	Construction of stone masonry open channel drains (Type drain no.1) along road side as shown on drawings as specified in the drawing No.: WS-ST-37	m	265	354.440	93.926.600	310.135	82.185.775	341.680	90.545.242
603-17	Reinforced concrete pipe culvert Dia.600, L=14m, Including RC wingwalls excavation, wingwall inlet-outlet, sand backfill, lean concrete joints, trust block as shown on the drawings	set	1	12.405.400	12.405.400	6.202.700	6.202.700	12.405.400	12.405.400

Item No.	Descriptions	Unit	Qty	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
603-18	Traffic Posts	set	4	443.050	1.772.200	575.965	2.303.860	1.455.843	5.823.372
603-19	Traffic warning Sign (Limit to 30km/h)	set	2	708.880	1.417.760	575.965	1.151.930	1.543.022	3.086.044
					855.538.411		620.534.058		830.386.985
604	Provision Sump for quantity variation and items variation under Bill no. 6	PS	5%		174.798.302		174.598.243		
Total for Bill No. 6: Reservoirs outside WTP					3.670.764.342		3.666.563.098		3.552.523.265

ໃບຄິດໄລ່ລາຄາ ທີ 7

ສະໜອງອຸປະກອນ ແລະ ຕິດຕັ້ງໄຟຟ້າ ແລະ ເຄື່ອງຄວບຄຸມ

Item No.	Descriptions	Unit	Quan tity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
	Supply & installation rates of all materials, plants, equipment and instrument shall include: (i) All materials, plants, equipment & instruments, supplied under this bill, shall be brand new and from the original source. (ii) Material cost, transport (up to the installation location), insurance, handling, storing etc. (iii) Testing of materials & submission of test reports prior to shipping, third party certification, all other documentation. (iv) Custom clearing and dealing with local authorities for formal approval etc. (v) The contractor is responsible to check the BOQ with tender/design drawings prior to pricing of BOQ. If unit indicates “set” or "lot", the rate of the item shall include for all the labour, materials, plants & equipment, required to complete such item, as per the specification and tender/design drawings to fulfill the purpose. (vi) It is assume that rates for items, shown in drawings &/or specified in the technical specification, and not specified in the BOQ, are included in other rates (stated below), furnished in the bid. (vii)Where cables are to be laid in trenches or trays that are not described in other BoQ items. All works to establish on trays, conduits or in trenches through HDPE pipes with necessary backfilling, warning tapes, cable tiles etc. (viii) Rate for construction of concrete chambers for electrical wiring shall be included in the rate of cable laying. (ix) QA/QC during the execution (x) Testing & commissioning of plants & equipment after installation.								
700	Water Treatment Plant								
*	WTP area								
700-1	Install & supply the New 22kV distribution line : SAC 3x35.0 mm ² including reinforce concrete pole 12m, cable spacer, bracket aerial, clamp, post inslutor, discs insulator, and others	m	500	332.731	166.365.275	132.915	66.457.500	320.752	160.376.125
700-2	Drop out fuse 22kV, 10kA w/ fuse link 40A	set	3	1.920.267	5.760.802	443.050	1.329.150	1.920.267	5.760.802
700-3	Lightning arrestor 24kV, 10kA	set	3	1.920.267	5.760.802	469.633	1.408.899	1.920.267	5.760.802
700-4	Potential transformer 22kV/110V	ea	2	9.599.653	19.199.306	6.202.700	12.405.400	9.599.653	19.199.306

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
700-5	Current transformer 40A/5A	ea	2	9.599.653	19.199.306	7.088.800	14.177.600	9.599.653	19.199.306
700-6	Install the three phase digital kilowatt-hour meter 5A(100A)	set	1	7.531.850	7.531.850	2.658.300	2.658.300	7.531.850	7.531.850
700-7	Install the earthing system, copper rod and bare copper wire 1C-50mm ²	lot	3	4.873.550	14.620.650	2.038.030	6.114.090	4.873.550	14.620.650
700-8	Install the power transformer: Oil-immersed transformer hermetically sealed type, copper winding, 400kVA, 22/0.4kV, 3P, 50Hz, Dyn11 vector-connected	set	1	91.991.269	91.991.269	88.610.000	88.610.000	91.991.269	91.991.269
700-9	Install the transformer board w/ LED indicating lamp & HRC fuse	set	1	886.100	886.100	4.430.500	4.430.500	886.100	886.100
700-10	Install the outdoor enclosure type MDB, Polyester powder coated in RAL 7032, IP65, 1200(W)x1800(H)x800(D) including copper busbar 600A, reinforce concrete foundation (2000x1200x300), and other	set	1	22.152.500	22.152.500	5.316.600	5.316.600	22.152.500	22.152.500
700-11	Digital Power Meter	ea	1	7.398.935	7.398.935	886.100	886.100	7.398.935	7.398.935
700-12	Power Factor Correction, 6step including 3 sets of CT 630A/5A, C-bank, 3P, 400V, 50Hz, 20kVAR with HRC 40A, magnetic contractor 40A, and accessories	lot	1	39.377.132	39.377.132	7.088.800	7.088.800	39.377.132	39.377.132
700-13	Under voltage protection relay	ea	1	15.149.474	15.149.474	487.355	487.355	15.149.474	15.149.474
700-14	Over voltage protection relay	ea	1	13.720.284	13.720.284	487.355	487.355	13.720.284	13.720.284
700-15	Ground fault protection relay	ea	1	21.152.093	21.152.093	886.100	886.100	21.152.093	21.152.093
700-16	MCCB 3P, 630AT, 630AF, IC 70kA, adjust type	ea	1	17.775.255	17.775.255	2.658.300	2.658.300	17.775.255	17.775.255
700-17	MCCB 3P, 400AT, 400AF, IC 36kA, adjust type	ea	1	14.496.330	14.496.330	2.658.300	2.658.300	14.496.330	14.496.330
700-18	MCCB 3P, 160AT, 160AF, IC 36kA, adjust type	ea	1	11.217.406	11.217.406	1.329.150	1.329.150	11.217.406	11.217.406
700-19	MCCB 3P, 250AT, 250AF, IC 36kA, adjust type	ea	1	13.460.834	13.460.834	1.329.150	1.329.150	13.460.834	13.460.834

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
700-20	MCCB 3P, 100AT, 125AF, IC 25kA	ea	1	1.535.877	1.535.877	1.329.150	1.329.150	1.535.877	1.535.877
700-21	MCCB 3P, 50AT, 125AF, IC 18kA	ea	1	1.346.075	1.346.075	1.329.150	1.329.150	1.346.075	1.346.075
700-22	MCCB 3P, 40AT, 125AF, IC 18kA	ea	3	1.346.075	4.038.224	1.329.150	3.987.450	1.346.075	4.038.224
700-23	MCCB 2P, 20AT, 125AF, IC 18kA	ea	3	1.035.408	3.106.224	1.329.150	3.987.450	1.035.408	3.106.224
700-24	Surge Protection Device, 3P+N, 40kA, 8/20us, 400V, 50Hz, Protection level ≤1.5kV	ea	1	7.593.345	7.593.345	1.329.150	1.329.150	7.593.345	7.593.345
700-25	Timer Delay 24Hour w/ Magnetic Contactor	set	3	631.701	1.895.102	310.135	930.405	631.701	1.895.102
700-26	FD 0.6/1kV CV Cu/XLPE/PVC 4C-50.0 mm ²	m	30	415.138	12.454.136	256.969	7.709.070	400.193	12.005.787
700-27	FD 0.6/1kV CV Cu/XLPE/PVC 4C-25.0 mm ²	m	90	236.766	21.308.933	132.915	11.962.350	228.242	20.541.811
700-28	FD 0.6/1kV CV Cu/XLPE/PVC 2C-2.5 mm ²	m	550	49.799	27.389.351	132.915	73.103.250	48.006	26.403.334
700-29	FD 0.6/1kV CV Cu/XLPE/PVC 1C-120.0 mm ²	m	144	258.121	37.169.414	132.915	19.139.760	248.829	35.831.315
700-30	FD 0.6/1kV CV Cu/XLPE/PVC 1C-95.0 mm ²	m	560	209.208	117.156.598	132.915	74.432.400	201.677	112.938.960
700-31	Cu/PVC 1C-70.0 mm ²	m	80	133.181	10.654.466	88.610	7.088.800	128.386	10.270.906
700-32	Cu/PVC 1C-35.0 mm ²	m	30	71.863	2.155.881	44.305	1.329.150	69.276	2.078.270
700-33	Cu/PVC 1C-16.0 mm ²	m	90	35.178	3.166.035	26.583	2.392.470	33.912	3.052.058
700-34	Cu/PVC 1C-2.5 mm ²	m	550	10.013	5.507.112	4.431	2.436.775	9.652	5.308.855
700-35	Install & Supply the Street Light Work including LED lamp 125W, hot-dip galvanized pole 10m with single arm, MCB 1P 16AT for each pole, reinforce concrete foundation 500x500x1500 with rebar and J-bolt, and flexible HDPE conduit D50	set	21	14.007.469	294.156.845	6.645.750	139.560.750	14.007.469	294.156.845
					1.057.849.219	-	572.766.179		1.043.329.439

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
701	Raw Water Intake								
701-1	Install & supply the New 22kV distribution line : SAC 3x35.0 mm ² including reinforce concrete pole 12m, cable spacer, bracket aerial, clamp, post insulator, discs insulator, and others	m	80	332.731	26.618.444	132.915	10.633.200	320.752	25.660.180
701-2	Drop out fuse 22kV, 10kA w/ fuse link 40A	set	3	1.920.267	5.760.802	443.050	1.329.150	1.920.267	5.760.802
701-3	Lightning arrestor 24kV, 10kA	set	3	1.920.267	5.760.802	469.633	1.408.899	1.920.267	5.760.802
701-4	Potential transformer 22kV/110V	ea	2	9.599.653	19.199.306	6.202.700	12.405.400	9.599.653	19.199.306
701-5	Current transformer 15A/5A	ea	2	9.599.653	19.199.306	7.088.800	14.177.600	9.599.653	19.199.306
701-6	Install the three phase digital kilowatt-hour meter 5A(100A)	set	1	7.531.850	7.531.850	2.658.300	2.658.300	7.531.850	7.531.850
701-7	Install the earthing system, copper rod and bare copper wire 1C-50mm ²	lot	3	4.873.550	14.620.650	2.038.030	6.114.090	4.873.550	14.620.650
701-8	Install the power transformer: Oil-immersed transformer hermetically sealed type, copper winding, 315kVA, 22/0.4kV, 3P, 50Hz, Dyn11 vector-connected	set	1	87.610.745	87.610.745	88.610.000	88.610.000	87.610.745	87.610.745
701-9	Install the transformer board w/ LED indicating lamp & HRC fuse	set	1	979.141	979.141	4.430.500	4.430.500	979.141	979.141
701-10	Install the outdoor enclosure type MDB, Polyester powder coated in RAL 7032, IP65, 600(W)x1800(H)x800(D) including copper busbar 600A, reinforce concrete foundation (1000x1200x300), and other	set	1	11.076.250	11.076.250	5.316.600	5.316.600	11.076.250	11.076.250
701-11	Digital Power Meter	ea	1	7.398.935	7.398.935	886.100	886.100	7.398.935	7.398.935
701-12	Power Factor Correction, 6step including 3 sets of CT 630A/5A, C-bank, 3P, 400V, 50Hz, 20kVAR with HRC 40A, magnetic contractor 40A, and accessories	lot	1	39.377.132	39.377.132	7.088.800	7.088.800	74.312.832	74.312.832
701-13	Under voltage protection relay	ea	1	15.149.474	15.149.474	487.355	487.355		

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
701-14	Over voltage protection relay	ea	1	13.720.284	13.720.284	487.355	487.355		
701-15	Ground fault protection relay	ea	1	21.152.093	21.152.093	886.100	886.100		
701-16	MCCB 3P, 630AT, 630AF, IC 70kA, adjust type	ea	2	17.775.255	35.550.509	2.658.300	5.316.600		
701-17	MCCB 3P, 400AT, 400AF, IC 36kA, adjust type	ea	1	14.496.330	14.496.330	2.658.300	2.658.300		
701-18	MCCB 3P, 250AT, 250AF, IC 36kA, adjust type	ea	1	13.460.834	13.460.834	1.329.150	1.329.150		
701-19	MCCB 3P, 50AT, 125AF, IC 18kA	ea	1	1.346.075	1.346.075	1.329.150	1.329.150		
701-20	MCCB 3P, 20AT, 125AF, IC 18kA	ea	2	1.346.075	2.692.149	1.329.150	2.658.300		
701-21	MCCB 2P, 25AT, 125AF, IC 18kA	ea	1	1.035.408	1.035.408	1.329.150	1.329.150		
701-22	MCCB 2P, 20AT, 125AF, IC 18kA	ea	1	1.035.408	1.035.408	1.329.150	1.329.150		
701-23	Surge Protection Device, 3P+N, 40kA, 8/20us, 400V, 50Hz, Protection level ≤1.5kV	ea	1	7.593.345	7.593.345	1.329.150	1.329.150		
701-24	Timer Delay 24Hour w/ Magnetic Contactor	set	1	631.701	631.701	310.135	310.135		
701-25	FD 0.6/1kV CV Cu/XLPE/PVC 4C-150.0 mm ²	m	30	1.207.577	36.227.312	159.498	4.784.940		
701-26	FD 0.6/1kV CV Cu/XLPE/PVC 4C-95.0 mm ²	m	15	780.300	11.704.495	132.915	1.993.725		
701-27	FD 0.6/1kV CV Cu/XLPE/PVC 2C-4.0 mm ²	m	15	56.002	840.023	132.915	1.993.725		
701-28	FD 0.6/1kV CV Cu/XLPE/PVC 2C-2.5 mm ²	m	38	49.799	1.892.355	132.915	5.050.770		
701-29	Cu/PVC 1C-50.0 mm ²	m	22	94.724	2.083.930	70.888	1.559.536		
701-30	Cu/PVC 1C-2.5 mm ²	m	38	10.013	380.491	4.431	168.359		
701-31	Install & supply the consumer unit, 10CKT	set	1	479.735	479.735	310.135	310.135		
701-32	MCB 2P, 25AT, IC 10kA	ea	1	241.639	241.639	443.050	443.050		
701-33	MCB 1P, 20AT, IC 6kA	ea	3	62.116	186.347	265.830	797.490		

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
701-34	MCB 1P, 16AT, IC 6kA	ea	1	62.116	62.116	265.830	265.830		
701-35	Cu/PVC 1C-4.0 mm ²	m	50	12.583	629.131	8.861	443.050		
701-36	Cu/PVC 1C-2.5 mm ²	m	60	10.013	600.776	4.431	265.830		
701-37	Cu/PVC 1C-1.5 mm ²	m	20	8.507	170.131	4.431	88.610		
701-38	Reflector surface-mounted type LED tube 2x18W	set	4	904.088	3.616.351	194.942	779.768		
701-39	Douplex receptacle outlet, 2P+E, 230V, 16A, water proof cover type	set	3	125.029	375.086	79.749	239.247		
701-40	Water proof cover type switch, 230V, 16A	set	1	125.029	125.029	39.875	39.875		
701-41	Install & Supply the Street Light Work including LED lamp 125W, hot-dip galvanized pole 10m with single arm, MCB 1P 16AT for each pole, reinforce concrete foundation 500x500x1500 with rebar and J-bolt, and flexible HDPE conduit D50	set	3	14.001.089	42.003.267	8.417.950	25.253.850		
					474.615.186		218.986.324		279.110.798
702	Pre Sedimentation Tank								
702-1	MCCB 3P, 25AT, 125AF, IC 18kA	ea	1	1.346.075	1.346.075	1.329.150	1.329.150	1.346.075	1.346.075
702-2	MCCB 3P, 20AT, 125AF, IC 18kA	ea	1	1.346.075	1.346.075	1.329.150	1.329.150	1.346.075	1.346.075
702-3	MCB 2P, 20AT, IC 6kA	ea	2	241.639	483.279	1.329.150	2.658.300	241.639	483.279
702-4	MCB 1P, 16AT, IC 6kA	ea	2	62.116	124.231	62.027	124.054	62.116	124.231
702-5	FD 0.6/1kV CV Cu/XLPE/PVC 4C-6.0 mm ²	m	120	89.407	10.728.899	159.498	19.139.760	86.189	10.342.658
702-6	FD 0.6/1kV CV Cu/XLPE/PVC 4C-4.0 mm ²	m	8	73.812	590.497	132.915	1.063.320	71.155	569.239
702-7	Cu/PVC 1C-4.0 mm ²	m	130	12.583	1.635.741	8.861	1.151.930	12.130	1.576.854
702-8	Cu/PVC 1C-2.5 mm ²	m	16	10.013	160.207	4.431	70.888	9.652	154.439
702-9	Cu/PVC 1C-1.5 mm ²	m	8	8.507	68.052	4.431	35.444	8.200	65.603
702-11	Surface mounted type LED tube 1x18w, 1200mm	set	1	418.682	418.682	194.942	194.942	418.682	418.682

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
702-12	Single pole switch, 230V, 16A	set	1	39.875	39.875	39.875	39.875	39.875	39.875
702-13	Douplex receptacle outlet, 2P+E, 230V, 16A, water proof cover type	set	1	125.029	125.029	79.749	79.749	125.029	125.029
					17.066.640	-	27.216.562		16.592.038
703	PAC House								
703-1	Install and supply the distribution board indicating LED lamp & HRC fuse, volt meter, scale 0V - 500V w/ volt selector, ammeter, scale 0A - 120A w/ CT 160A/5A	lot	1	6.645.750	6.645.750	3.101.350	3.101.350	6.645.750	6.645.750
703-2	MCCB 3P, 80AT, 125AF, IC 25kA	ea	1	1.484.129	1.484.129	1.329.150	1.329.150	1.484.129	1.484.129
703-3	MCCB 3P, 50AT, 125AF, IC 25kA	ea	1	1.346.075	1.346.075	1.329.150	1.329.150	1.346.075	1.346.075
703-4	MCCB 3P, 25AT, 125AF, IC 18kA	ea	5	1.346.075	6.730.373	1.329.150	6.645.750	1.346.075	6.730.373
703-5	Surge Protection Device, 3P+N, 40kA, 8/20us, 400V, 50Hz, Protection level ≤1.5kV	ea	1	7.593.345	7.593.345	1.329.150	1.329.150	7.593.345	7.593.345
703-6	FD 0.6/1kV CV Cu/XLPE/PVC 4C-25.0 mm2	m	100	236.766	23.676.592	132.915	13.291.500	228.242	22.824.235
703-7	FD 0.6/1kV CV Cu/XLPE/PVC 4C-6.0 mm2	m	45	89.407	4.023.337	159.498	7.177.410	86.189	3.878.497
703-8	Cu/PVC 1C-16.0 mm2	m	100	35.178	3.517.817	26.583	2.658.300	33.912	3.391.176
703-9	Cu/PVC 1C-4.0 mm2	m	45	12.583	566.218	8.861	398.745	12.130	545.834
703-10	Install & supply the load panel, 3P, 125A Frame, 24CKT	set	1	2.536.816	2.536.816	1.772.200	1.772.200	2.536.816	2.536.816
703-11	MCCB 3P, 25AT, 125AF, IC 18kA	ea	1	1.346.075	1.346.075	1.329.150	1.329.150	1.346.075	1.346.075
703-12	MCB 1P, 20AT, IC 6kA	ea	8	62.116	496.925	62.027	496.216	62.116	496.925
703-13	MCB 1P, 16AT, IC 6kA	ea	4	62.116	248.462	62.027	248.108	62.116	248.462
703-14	Cu/PVC 1C-4.0 mm2	m	120	12.583	1.509.914	8.861	1.063.320	12.130	1.455.557
703-15	Cu/PVC 1C-2.5 mm2	m	195	10.013	1.952.521	4.431	863.948	9.652	1.882.231
703-16	Cu/PVC 1C-1.5 mm2	m	65	8.507	552.926	4.431	287.983	8.200	533.021
703-17	Recessed type LED tube 2x18W, 1200mm	set	9	1.093.625	9.842.622	141.776	1.275.984	1.093.625	9.842.622

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
703-18	Surface mounted type LED tube 1x18w, 1200mm	set	3	418.682	1.256.047	194.942	584.826	418.682	1.256.047
703-19	Surface mounted type LED tube 1x9w, 600mm	set	2	299.059	598.118	194.942	389.884	299.059	598.118
703-20	Single pole switch, 230V, 16A	set	9	39.875	358.871	39.875	358.871	39.875	358.871
703-21	Douplex receptacle outlet, 2P+E, 230V, 16A	set	5	107.041	535.204	79.749	398.745	107.041	535.204
703-22	Douplex receptacle outlet, 2P+E, 230V, 16A, water proof cover type	set	6	125.029	750.172	79.749	478.494	125.029	750.172
703-23	Ceilling type swing ventilation fan, size 16"	set	3	956.988	2.870.964	443.050	1.329.150	956.988	2.870.964
703-24	Wall type exhaust fan, 321CFM, size 8"	set	4	868.378	3.473.512	443.050	1.772.200	868.378	3.473.512
703-25	Inverter air-conditioning unit, 12,300 btu/h w/ drainage water pipe (blue color)	set	2	5.687.521	11.375.043	4.652.025	9.304.050	5.687.521	11.375.043
					95.287.827		59.213.633		93.999.051
704	RSF House								
704-1	Install and supply the distribution board indicating LED lamp & HRC fuse, volt meter, scale 0V - 500V w/ volt selector, ammeter, scale 0A - 120A w/ CT 160A/5A	lot	1	6.645.750	6.645.750	3.101.350	3.101.350	6.645.750	6.645.750
704-2	MCCB 3P, 160AT, 160AF, IC 36kA, adjust type	ea	2	11.217.406	22.434.811	1.329.150	2.658.300	11.217.406	22.434.811
704-3	MCCB 3P, 50AT, 125AF, IC 18kA	ea	1	1.346.075	1.346.075	1.329.150	1.329.150	1.346.075	1.346.075
704-4	MCCB 3P, 20AT, 125AF, IC 18kA	ea	3	1.346.075	4.038.224	1.329.150	3.987.450	1.346.075	4.038.224
704-5	Surge Protection Device, 3P+N, 40kA, 8/20us, 400V, 50Hz, Protection level ≤1.5kV	ea	1	7.593.345	7.593.345	1.329.150	1.329.150	7.593.345	7.593.345
704-6	FD 0.6/1kV CV Cu/XLPE/PVC 4C-50.0 mm ²	m	10	415.138	4.151.379	256.969	2.569.690	400.193	4.001.929
704-7	FD 0.6/1kV CV Cu/XLPE/PVC 4C-6.0 mm ²	m	10	89.407	894.075	159.498	1.594.980	86.189	861.888

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
704-8	FD 0.6/1kV CV Cu/XLPE/PVC 4C-4.0 mm ²	m	30	73.812	2.214.364	132.915	3.987.450	71.155	2.134.647
704-9	Cu/PVC 1C-35.0 mm ²	m	10	66.546	665.461	44.305	443.050	64.150	641.505
704-10	Cu/PVC 1C-4.0 mm ²	m	10	7.266	72.660	8.861	88.610	7.004	70.044
704-11	Cu/PVC 1C-2.5 mm ²	m	30	4.696	140.890	4.431	132.915	4.527	135.818
704-14	Install & supply the load panel, 3P, 125A Frame, 12CKT	set	1	2.070.904	2.070.904	1.772.200	1.772.200	2.070.904	2.070.904
704-15	MCCB 3P, 25AT, 125AF, IC 18kA	ea	1	1.346.075	1.346.075	1.329.150	1.329.150	1.346.075	1.346.075
704-16	MCB 1P, 20AT, IC 6kA	ea	5	62.116	310.578	62.027	310.135	62.116	310.578
704-17	MCB 1P, 16AT, IC 6kA	ea	5	62.116	310.578	62.027	310.135	62.116	310.578
704-18	Cu/PVC 1C-4.0 mm ²	m	234	12.583	2.944.333	8.861	2.073.474	12.130	2.838.337
704-19	Cu/PVC 1C-2.5 mm ²	m	228	10.013	2.282.948	4.431	1.010.154	9.652	2.200.762
704-20	Cu/PVC 1C-1.5 mm ²	m	114	8.507	969.748	4.431	505.077	8.200	934.837
704-21	Reflector surface-mounted type LED tube 2x18W	set	24	904.088	21.698.108	194.942	4.678.608	904.088	21.698.108
704-22	Single pole switch, 230V, 16A	set	5	39.875	199.373	39.875	199.373	39.875	199.373
704-23	Douplex receptacle outlet, 2P+E, 230V, 16A, water proof cover type	set	8	125.029	1.000.230	79.749	637.992	125.029	1.000.230
704-24	Wall type exhaust fan, 321CFM, size 8"	set	2	868.378	1.736.756	443.050	886.100	868.378	1.736.756
					85.066.663		34.934.493		84.550.572
705	Clear Water Tank and Pump House								
705-1	Install and supply the distribution board indicating LED lamp & HRC fuse, volt meter, scale 0V - 500V w/ volt selector, ammeter, scale 0A - 120A w/ CT 100A/5A	set	1	6.645.750	6.645.750	3.101.350	3.101.350	12.941.122	12.941.122
705-2	MCCB 3P, 400AT, 400AF, IC 36kA, adjust type	ea	1	14.496.330	14.496.330	2.658.300	2.658.300		
705-3	MCCB 3P, 320AT, 320AF, IC 36kA, adjust type	ea	1	14.496.330	14.496.330	2.658.300	2.658.300		
705-4	MCCB 3P, 50AT, 125AF, IC 18kA	ea	1	1.346.075	1.346.075	1.329.150	1.329.150		
705-5	MCCB 3P, 25AT, 125AF, IC 18kA	ea	2	1.346.075	2.692.149	1.329.150	2.658.300		

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
705-6	MCCB 2P, 25AT, 125AF, IC 18kA	ea	1	1.035.408	1.035.408	1.329.150	1.329.150		
705-7	Surge Protection Device, 3P+N, 40kA, 8/20us, 400V, 50Hz, Protection level ≤1.5kV	ea	1	7.593.345	7.593.345	1.329.150	1.329.150		
705-8	FD 0.6/1kV CV Cu/XLPE/PVC 4C-150.0 mm ²	m	15	1.207.577	18.113.656	159.498	2.392.470		
705-9	FD 0.6/1kV CV Cu/XLPE/PVC 2C-6.0 mm ²	m	10	65.128	651.284	132.915	1.329.150		
705-10	Cu/PVC 1C-70.0 mm ²	m	15	133.181	1.997.712	88.610	1.329.150		
705-11	Cu/PVC 1C-4.0 mm ²	m	10	12.583	125.826	8.861	88.610		
705-12	Install & supply the consumer unit, 10CKT	set	1	479.735	479.735	310.135	310.135		
705-13	MCB 2P, 25AT, IC 10kA	ea	1	241.639	241.639	443.050	443.050		
705-14	MCB 1P, 20AT, IC 6kA	ea	3	62.116	186.347	265.830	797.490		
705-15	MCB 1P, 16AT, IC 6kA	ea	3	62.116	186.347	62.027	186.081		
705-16	Cu/PVC 1C-4.0 mm ²	m	40	12.583	503.305	8.861	354.440		
705-17	Cu/PVC 1C-2.5 mm ²	m	110	10.013	1.101.422	4.431	487.355		
705-18	Cu/PVC 1C-1.5 mm ²	m	45	8.507	382.795	4.431	199.373		
705-20	Reflector surface-mounted type LED tube 2x18W	set	9	904.088	8.136.790	194.942	1.754.478		
705-21	Single pole switch, 230V, 16A	set	3	39.875	119.624	39.875	119.624		
705-22	Douplex receptacle outlet, 2P+E, 230V, 16A, water proof cover type	set	3	125.029	375.086	79.749	239.247		
					80.906.955	-	25.094.352		12.941.122
706	On Ground Reservoir 1150m³								
706-1	Install the New 0.23kV distribution line : Single phase two wires, AL/PVC 2x1C-16.0 mm ² including reinforce concrete pole 8m, Spool insulator with racks, PG connector bolt type, and others	m	350	175.891	61.561.798	132.915	46.520.250	159.126.805	159.126.805
706-2	Install the Single phase digital kilowatt-	set	1	4.873.550	4.873.550	2.658.300	2.658.300		

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
	hour meter 5A(100A)								
706-3	Install the earthing system, copper rod and bare copper wire 1C-50mm ²	lot	1	4.873.550	4.873.550	2.038.030	2.038.030		
706-4	Install the outdoor enclosure distribution board (DB), IP65 including indicating LED lamp & HRC fuse, volt meter, scale 0V - 500V w/ volt selector, ammeter, scale 0A - 120A w/ CT 100A/5A	set	1	8.417.950	8.417.950	5.316.600	5.316.600		
706-5	MCCB 2P, 40AT, 125AF, IC 25kA	ea	1	1.035.408	1.035.408	1.329.150	1.329.150		
706-6	MCCB 2P, 32AT, 125AF, IC 25kA	ea	1	1.035.408	1.035.408	1.329.150	1.329.150		
706-7	MCCB 2P, 20AT, 125AF, IC 25kA	ea	1	1.035.408	1.035.408	1.329.150	1.329.150		
706-8	MCCB 2P, 15AT, 125AF, IC 25kA	ea	1	1.035.408	1.035.408	1.329.150	1.329.150		
706-9	Surge Protection Device, 1P+N, 15kA, 8/20us, 230V, 50Hz, Protection level ≤1.5kV	ea	1	3.106.312	3.106.312	1.329.150	1.329.150		
706-10	Timer Delay 24Hour w/ Magnetic Contactor	set	1	631.701	631.701	310.135	310.135		
706-11	FD 0.6/1kV CV Cu/XLPE/PVC 2C-2.5 mm ²	m	135	49.799	6.722.841	132.915	17.943.525		
706-12	Cu/PVC 1C-1.5 mm ²	m	135	8.507	1.148.386	4.431	598.118		
706-13	Install & Supply the Street Light Work including LED lamp 125W, hot-dip galvanized pole 10m with single arm, MCB 1P 16AT for each pole, reinforce concrete foundation 500x500x1500 with rebar and J-bolt, and flexible HDPE conduit D50	set	5	14.001.089	70.005.444	8.417.950	42.089.750		
706-14	Solid copper air terminal lightning protection, 0.6m	ea	1	592.712	592.712	3.101.350	3.101.350		
706-15	Hot dip galvanized steel pole, 2400mm	ea	1	1.114.802	1.114.802	886.100	886.100		
706-16	Bare copper tape conductor 25x3mm,	m	160	188.473	30.155.755	159.498	25.519.680		

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
	60mm ² w/ metal sheet clamp								
				-	197.346.432	-	153.627.588		159.126.805
707	Elevated Reservoir 900m³								
707-1	Install & supply the New 0.23kV distribution line : Single phase two wires, AL/PVC 2x16.0 mm ² including reinforce concrete pole 8m, Spool insulator with racks, PG connector bolt type, and others	m	150	175.891	26.383.628	132.915	19.937.250	169.559	25.433.817
707-2	Install & supply the Single phase digital kilowatt-hour meter 5A(100A)	lot	1	4.873.550	4.873.550	2.658.300	2.658.300	4.873.550	4.873.550
707-3	Install & supply the earthing system, copper rod and bare copper wire 1C-50mm ²	lot	2	4.873.550	9.747.100	2.038.030	4.076.060	4.873.550	9.747.100
707-4	Install the outdoor enclosure distribution board (DB), IP65 including indicating LED lamp & HRC fuse, volt meter, scale 0V - 500V w/ volt selector, ammeter, scale 0A - 120A w/ CT 100A/5A	set	1	8.417.950	8.417.950	5.316.600	5.316.600	8.417.950	8.417.950
707-5	MCCB 2P, 40AT, 125AF, IC 25kA	ea	1	1.035.408	1.035.408	1.329.150	1.329.150	1.035.408	1.035.408
707-6	MCCB 2P, 32AT, 125AF, IC 25kA	ea	1	1.035.408	1.035.408	1.329.150	1.329.150	1.035.408	1.035.408
707-7	MCCB 2P, 20AT, 125AF, IC 25kA	ea	1	1.035.408	1.035.408	1.329.150	1.329.150	1.035.408	1.035.408
707-8	MCCB 2P, 10AT, 125AF, IC 25kA	ea	1	1.035.408	1.035.408	1.329.150	1.329.150	1.035.408	1.035.408
707-9	MCB 1P, 10AT, IC 6kA (for each street light)	ea	3	62.116	186.347	62.027	186.081	62.116	186.347
707-10	Surge Protection Device, 1P+N, 15kA, 8/20us, 230V, 50Hz, Protection level ≤1.5kV	ea	1	3.106.312	3.106.312	1.329.150	1.329.150	3.106.312	3.106.312
707-11	Timer Delay 24Hour w/ Magnetic Contactor	ea	1	631.701	631.701	310.135	310.135	631.701	631.701
707-12	FD 0.6/1kV CV Cu/XLPE/PVC 2C-2.5 mm ²	m	60	49.799	2.987.929	132.915	7.974.900	48.006	2.880.364

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
707-13	Cu/PVC 1C-1.5 mm ²	m	60	8.507	510.394	4.431	265.830	8.200	492.019
707-14	Install & Supply the Street Light Work including LED lamp 125W, hot-dip galvanized pole 10m with single arm, MCB 1P 16AT for each pole, reinforce concrete foundation 500x500x1500 with rebar and J-bolt, and flexible HDPE conduit D50	set	3	14.001.089	42.003.267	8.417.950	25.253.850	14.001.089	42.003.267
707-15	Solid copper air termical lightning protection, 0.6m	ea	1	592.712	592.712	3.101.350	3.101.350	592.712	592.712
707-16	Hot dip galvanized steel pole, 2400mm	ea	1	1.114.802	1.114.802	886.100	886.100	1.114.802	1.114.802
707-17	Bare copper tape conductor 25x3mm, 60mm ² w/ metal sheet clamp	m	40	188.473	7.538.939	159.498	6.379.920	181.688	7.267.537
					112.236.262		82.992.126		110.889.110
708	BNP Office and Storage Building								
708-1	Install & supply the New 0.4kV distribution line : Three phase four wires, AL/PVC 4x1C-16.0 mm ² including reinforce concrete pole 8m, Spool insulator with racks, PG connector bolt type, and others	m	30	245.450	7.363.491	132.915	3.987.450	236.614	7.098.405
708-2	Install & supply the three phase digital kilowatt-hour meter 5A(100A)	set	1	7.531.850	7.531.850	2.658.300	2.658.300	7.531.850	7.531.850
708-3	Install & supply the earthing system, copper rod and bare copper wire 1C-50mm ²	lot	1	4.873.550	4.873.550	2.038.030	2.038.030	4.873.550	4.873.550
708-4	Install the outdoor enclosure distribution board (DB), IP65 including indicating lamp, volt meter w/ volt selector, ampere meter scale 0A - 120A, CT 100A/5A, wiring, reinforce concrete foundation (1000x1000x300) and other.	set	1	17.018.880	17.018.880	5.316.600	5.316.600	17.018.880	17.018.880

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
708-5	MCCB 3P, 100AT, 125AF, IC 25kA	ea	1	1.622.183	1.622.183	1.329.150	1.329.150	1.622.183	1.622.183
708-6	MCCB 3P, 50AT, 125AF, IC 18kA	ea	1	1.346.075	1.346.075	1.329.150	1.329.150	1.346.075	1.346.075
708-7	MCCB 3P, 40AT, 125AF, IC 18kA	ea	2	1.346.075	2.692.149	1.329.150	2.658.300	1.346.075	2.692.149
708-8	MCCB 2P, 40AT, 125AF, IC 25kA	ea	3	1.035.408	3.106.224	1.329.150	3.987.450	1.035.408	3.106.224
708-9	MCCB 2P, 15AT, 125AF, IC 25kA	ea	1	1.035.408	1.035.408	443.050	443.050	1.035.408	1.035.408
708-10	Surge Protection Device, 1P+N, 15kA, 8/20us, 230V, 50Hz, Protection level ≤1.5kV	ea	1	3.106.312	3.106.312	1.329.150	1.329.150	3.106.312	3.106.312
708-11	Timer Delay 24Hour w/ Magnetic Contactor	set	1	631.701	631.701	310.135	310.135	631.701	631.701
708-12	FD 0.6/1kV CV Cu/XLPE/PVC 4C-16.0 mm ²	m	20	162.511	3.250.215	132.915	2.658.300	156.660	3.133.207
708-13	FD 0.6/1kV CV Cu/XLPE/PVC 4C-10.0 mm ²	m	140	118.649	16.610.831	132.915	18.608.100	114.377	16.012.841
708-14	FD 0.6/1kV CV Cu/XLPE/PVC 2C-6.0 mm ²	m	40	65.128	2.605.134	132.915	5.316.600	62.784	2.511.349
708-15	FD 0.6/1kV CV Cu/XLPE/PVC 2C-2.5 mm ²	m	150	49.799	7.469.823	132.915	19.937.250	48.006	7.200.909
708-16	Cu/PVC 1C-16.0 mm ²	m	10	35.178	351.782	26.583	265.830	33.912	339.118
708-17	Cu/PVC 1C-6.0 mm ²	m	140	17.013	2.381.837	8.861	1.240.540	16.401	2.296.091
708-18	Cu/PVC 1C-4.0 mm ²	m	40	12.583	503.305	8.861	354.440	12.130	485.186
708-19	Cu/PVC 1C-2.5 mm ²	m	150	10.013	1.501.940	4.431	664.575	9.652	1.447.870
708-20	Install & Supply the Street Light Work including LED lamp 125W, hot-dip galvanized pole 10m with single arm, MCB 1P 16AT for each pole, reinforce concrete foundation 500x500x1500 with rebar and J-bolt, and flexible HDPE conduit D50	set	6	14.001.089	84.006.533	8.417.950	50.507.700	14.001.089	84.006.533
					169.009.220		124.940.100		167.495.839
709	BNP Office								

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
709-1	Install & supply the load panel, 3P, 125A Frame, 24CKT	set	2	2.536.816	5.073.631	1.772.200	3.544.400	2.536.816	5.073.631
709-2	MCCB 3P, 40AT, 125AF, IC 18kA	ea	2	1.346.075	2.692.149	1.329.150	2.658.300	1.346.075	2.692.149
709-3	MCB 1P, 20AT, IC 6kA	ea	21	62.116	1.304.428	265.830	5.582.430	62.116	1.304.428
709-4	MCB 1P, 16AT, IC 6kA	ea	14	62.116	869.619	62.027	868.378	62.116	869.619
709-5	Cu/PVC 1C-4.0 mm ²	m	320	12.583	4.026.438	8.861	2.835.520	12.130	3.881.487
709-6	Cu/PVC 1C-2.5 mm ²	m	732	10.013	7.329.465	4.431	3.243.126	9.652	7.065.604
709-7	Cu/PVC 1C-1.5 mm ²	m	240	8.507	2.041.574	4.431	1.063.320	8.200	1.968.078
709-8	Recessed type LED tube 2x18W, 1200mm	set	30	1.093.625	32.808.739	141.776	4.253.280	1.093.625	32.808.739
709-9	Surface mounted type LED tube 1x18w, 1200mm	set	3	418.682	1.256.047	194.942	584.826	418.682	1.256.047
709-10	Surface mounted type LED tube 1x9w, 600mm	set	3	299.059	897.176	194.942	584.826	299.059	897.176
709-11	Single pole switch, 230V, 16A	set	29	39.875	1.156.361	39.875	1.156.361	39.875	1.156.361
709-12	Douplex receptacle outlet, 2P+E, 230V, 16A	set	27	107.041	2.890.104	79.749	2.153.223	107.041	2.890.104
709-13	Douplex receptacle outlet, 2P+E, 230V, 16A, water proof cover type	set	1	125.029	125.029	79.749	79.749	125.029	125.029
709-14	Ceilling type swing ventilation fan, size 16"	set	13	956.988	12.440.844	443.050	5.759.650	956.988	12.440.844
709-15	Cielingl type exhaust fan, Hi=377/Low=253CFM	set	10	3.292.305	32.923.046	443.050	4.430.500	3.292.305	32.923.046
709-16	Cielingl type exhaust fan, 82.4CFM	set	3	1.109.397	3.328.192	443.050	1.329.150	1.109.397	3.328.192
					111.162.840	-	40.127.039		110.680.531
710	Storage Building								
710-1	Install & supply the main circuit breaker box & MCCB 2P, 40AT, 125AF, IC 25kA	set	1	87.990	87.990	1.772.200	1.772.200	87.990	87.990
710-2	Install & supply the consumer unit, 14CKT	set	1	753.894	753.894	726.602	726.602	753.894	753.894
710-3	MCB 2P, 40AT, IC 10kA	ea	1	241.639	241.639	230.386	230.386	241.639	241.639
710-4	MCB 1P, 20AT, IC 6kA	ea	6	62.116	372.694	265.830	1.594.980	62.116	372.694

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
710-5	MCB 1P, 16AT, IC 6kA	ea	3	62.116	186.347	62.027	186.081	62.116	186.347
710-6	Cu/PVC 1C-4.0 mm ²	m	160	12.583	2.013.219	8.861	1.417.760	12.130	1.940.743
710-7	Cu/PVC 1C-2.5 mm ²	m	153	10.013	1.531.978	4.431	677.867	9.652	1.476.827
710-8	Cu/PVC 1C-1.5 mm ²	m	40	8.507	340.262	4.431	177.220	8.200	328.013
710-10	Recessed type LED tube 2x18W, 1200mm	set	4	1.093.625	4.374.498	141.776	567.104	1.093.625	4.374.498
710-11	Surface mounted type LED tube 1x18w, 1200mm	set	4	418.682	1.674.729	194.942	779.768	418.682	1.674.729
710-12	Single pole switch, 230V, 16A	set	7	39.875	279.122	39.875	279.122	39.875	279.122
710-13	Douplex receptacle outlet, 2P+E, 230V, 16A	set	10	125.029	1.250.287	79.749	797.490	125.029	1.250.287
710-14	Ceiling type swing ventilation fan, size 16"	set	2	956.988	1.913.976	443.050	886.100	956.988	1.913.976
710-15	Wall type exhaust fan, 321CFM, size 8"	set	2	360.465	720.931	443.050	886.100	360.465	720.931
					15.741.567		10.978.779		15.601.690
711	Closed Circuit Television (CCTV) System								
711-1	Outdoor dome CCTV camera 5MP high-performance CMOS, 2560x1944 pixel, analog output, true day/night, impact protection: IK10, weather proof: IP67 including support, camera pole, and camera accessories	set	6	2.531.145	15.186.868	886.100	5.316.600	2.531.145	15.186.868
711-2	Indoor dome CCTV camera 5MP high-performance CMOS, 2560x1944 pixel, analog output, true day/night,	set	5	2.082.335	10.411.675	886.100	4.430.500	2.082.335	10.411.675
711-3	NVR recorder: analog video input 16-ch, BNC interface (1.0 Vp-p, 75 Ω), supporting coaxitron connection + 2TB HDD	set	1	2.924.130	2.924.130	3.544.400	3.544.400	2.924.130	2.924.130
					28.522.673		13.291.500		28.522.673
712	Supply, installation, testing and								

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
	commissioning for SCADA system								
*	WTP area								
712-1	SCADA work: - SCADA server license 500 tags including simultaneous report outputs (Microsoft Excel base report) - Server PowerEdge T40, Intel Xeon E-2224G 3.5GHz, 8M cache, 4C/4T, turbo (71W) / 8G ECC UDIMM/2TB, TPM + Windows + 14" LCD + Mouse + Keyboard + Fix shelf including;KIWI syslog Server for Windows and Network monitoring.	set	1	112.698.185	112.698.185	8.861.000	8.861.000	112.698.185	112.698.185
712-2	SCADA work for redundant - SCADA server license 500 tags including simultaneous report outputs (Microsoft Excel base report) - Server PowerEdge T40, Intel Xeon E-2224G 3.5GHz, 8M cache, 4C/4T, turbo (71W) / 8G ECC UDIMM/2TB, TPM + Windows + Fix shelf including;KIWI syslog Server for Windows and Network	set	1	96.551.140	96.551.140	8.861.000	8.861.000	96.551.140	96.551.140
712-3	5kVA ups back-up, 4.0kW, 230V output voltage, 50 Hz output frequency	set	1	21.437.860	21.437.860	2.658.300	2.658.300	21.437.860	21.437.860
712-4	Network switch: - 8 x 10/100/1000 ports, 2 x combo mini-GBIC ports - Built-in switch configuration utility for easy browser-based device configuration (HTTP/HTTPS). Supports configuration, system dashboard, system maintenance,	set	1	3.136.794	3.136.794	26.583.000	26.583.000	3.136.794	3.136.794

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
	and monitoring - Media converter, 1x10/100/1000mbps RJ45 port, wave length 850nm, 1000Base-Fx/1000Base-SX/1000Base-T								
712-5	19" Gemany rack, 42U, 60x100x205cm including heavy duty 2 ball bearing 4"(Impeller) fan, cable management panel, patch panel, shelf for server, AC Power distribution universal outlet w/cable 3m & surge protection, and accessories	set	2	10.872.447	21.744.894	3.101.350	6.202.700	10.872.447	21.744.894
712-6	42" LCD TV, resolution: 4K (3840x2460pixel), connectivity: HDMI, audio out, VGA, and other port	set	1	5.421.514	5.421.514	10.633.200	10.633.200	5.421.514	5.421.514
712-7	SCADA Client for Operator including PC workstation: desktop w/ 32" LED monitor, RAM 8GB, HDD 1TB, Window 10, keyboard w/ mouse	set	1	31.821.623	31.821.623	4.430.500	4.430.500	31.821.623	31.821.623
712-8	SCADA Client for Operator including PC workstation: laptop 15" screen display w/ 32" LED monitor, RAM 8GB, HDD 1TB	set	1	31.821.623	31.821.623	8.861.000	8.861.000	31.821.623	31.821.623
712-9	Color inkjet-printer, paper A3, A4, A5 and other size w/ ink tank, Printing Resolution :5760 x 1440 dpi	set	1	1.368.581	1.368.581	5.316.600	5.316.600	1.368.581	1.368.581
712-10	Black/White laser printer, paper A4 size	set	1	785.528	785.528	4.430.500	4.430.500	785.528	785.528
712-11	Master programmable logic controller - CPU module, 20k step memory, 34ns per instruction, multi processor capability. - Power supply module, 100-240V AC input, 5V DC, 3A, 24V DC 0.6A output - CPU base with 5 I/O slots and 1 power supply slot	lot	1	45.571.326	45.571.326	31.013.500	31.013.500	45.571.326	45.571.326

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
	- Input module, 16 point, 24V DC input (4mA), sink type, 16 points/common - Output module, 16 point transistor, 12-24V DC, 0.1A/point, 1.6A/common, sink type, 16 points/common - Ethernet interface module, 100Mbit/s, 100BASETX/10BASE-T - PLC software								
					372.359.069		117.851.300		372.359.069
713	Raw water intake								
*	Motor control center								
713-1	Network switch: - 8 x 10/100/1000 ports, 2 x combo mini-GBIC ports - Built-in switch configuration utility for easy browser-based device configuration (HTTP/HTTPS). Supports configuration, system dashboard, system maintenance, and monitoring - Media converter, 1x10/100/1000mbps RJ45 port, wave length 850nm, 1000Base-Fx/1000Base-SX/1000Base-T	lot	1	3.136.794	3.136.794	26.583.000	26.583.000	3.136.794	3.136.794
713-2	Optical fibre cable work: - OFC 4cores, multi-mode - Optical distribution frame (ODF) - Optical patch cord - Splicing services	lot	1	8.861.000	8.861.000	8.861.000	8.861.000	8.861.000	8.861.000
713-3	Programmable logic controller devices:- Built in CPU, 100-240VAC Powered, 24VDC Inputs, transistor outputs- I/O port	lot	1	19.010.124	19.010.124	22.152.500	22.152.500	19.010.124	19.010.124

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
	: 14 inputs DC 24V, 10 transistor outputs- Analogue I/O module: 2 analogue inputs/ 1 analogue output, 12 bit (current/voltage)- RS485 interface module with modbus protocol, direct connection & data monitor- HMI interface : 8.4" VGA TFT, 65K colour Graphic Operator terminal, 640x480 pixel touch screen, with Ethernet, RS232 & RS422/485, USB (host & device) connections, plus SD memory card slot.- PLC software								
713-4	Motor control center cabinet 1600Wx600Dx2000H including: - Wiring duct, cable 1.5 mm ² , terminal with fuse for 24VDC and 0VDC - Step down transformer for control wiring - UPS 1000kVA - Rack	lot	1	22.152.500	22.152.500	17.722.000	17.722.000	22.152.500	22.152.500
713-5	Variable drive frequency inverter, 3 phase, 400V, 55kW, 0.2 to 590Hz, PWM control	set	4	57.695.477	230.781.909	5.316.600	21.266.400	10.127.700	40.510.800
713-6	FD 0.6/1.0kV 4C-50.0 mm ² cable for submersible pump	m	50	415.138	20.756.893	256.969	12.848.450	400.193	20.009.644
713-7	IEC 53 VCT 300/500V 2C-1.5 mm ² cable for Motorize valve	m	25	12.848	321.211	70.888	1.772.200	12.386	309.648
713-8	Cu/PVC 1C-35.0 mm ² cable for earthing	m	50	66.546	3.327.306	44.305	2.215.250	64.150	3.207.523
*	Instrumentation devices			-	-	-	-		
713-10	Ultrasonic level transmitter and controller: continuous level measurement up to 5.5 m (18') with a 4 to 20 mA signal output	set	1	7.890.277	7.890.277	7.088.800	7.088.800	7.890.277	7.890.277
713-11	Level Switch with changing liquid levels, displacing a shuttle which magnetically actuates a hermetically sealed switch	set	1	1.417.760	1.417.760	4.430.500	4.430.500	1.417.760	1.417.760

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
	within the unit, maximum pressure 16bar								
713-13	Pressure switch, Switch output hermetically sealed SPDT or DPDT switch	set	1	3.157.440	3.157.440	3.544.400	3.544.400	3.157.440	3.157.440
					320.813.214	-	128.484.500		129.663.510
714	Chemical Feeding								
*	Motor control center								
714-1	Network switch:- 8 x 10/100/1000 ports, 2 x combo mini-GBIC ports- Built-in switch configuration utility for easy browser-based device configuration (HTTP/HTTPS). Supports configuration, system dashboard, system maintenance, and monitoring- Media converter, 1x10/100/1000mbps RJ45 port, wave length 850nm, 1000Base-Fx/1000Base-SX/1000Base-T	lot	2	3.136.794	6.273.588	26.583.000	53.166.000	3.136.794	6.273.588
714-2	Optical fibre cable work: - OFC 4cores, multi-mode - Optical distribution frame (ODF) - Optical patch cord - Splicing services	lot	1	8.861.000	8.861.000	8.861.000	8.861.000	8.861.000	8.861.000
714-3	Programmable logic controller devices: - Built in CPU, 100-240VAC Powered, 24VDC Inputs, transistor outputs - I/O port : 14 inputs DC 24V, 10 transistor outputs - Expansion I/O module: 8 inputs DC 24V - RS485 interface module with modbus protocol, direct connection & data monitor - HMI interface : Graphic touch terminal; 3.8" TFT-Display; 320x128 pixels;	lot	2	9.594.248	19.188.496	22.152.500	44.305.000	9.594.248	19.188.496

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
	monochrome, (White, pink, red, green, amber backlight) 5V DC, Ethernet, RS422/485 PLC-interface								
714-4	Motor control center cabinet 800Wx600Dx2000H including: - Wiring duct, cable 1.5 mm ² , terminal with fuse for 24VDC and 0VDC - Step down transformer for control wiring - UPS 1000kVA - Rack - Install & supply IMC conduit and support work	lot	2	11.076.250	22.152.500	17.722.000	35.444.000	11.076.250	22.152.500
714-5	IEC 53 VCT 300/500V 2C-1.5 mm ² cable for power supply to dosing pump & mixer	lot	1	4.430.500	4.430.500	2.658.300	2.658.300	4.430.500	4.430.500
714-6	Install & supply IMC conduit and support work	lot	1	11.076.250	11.076.250	8.861.000	8.861.000	11.076.250	11.076.250
*	Instrumentation devices			-	-	-	-	-	
714-7	Level Switch with changing liquid levels, displacing a shuttle which magnetically actuates a hermetically sealed switch within the unit, maximum pressure 16bar	set	15	1.550.675	23.260.125	3.544.400	53.166.000	1.550.675	23.260.125
					95.242.459	-	206.461.300		95.242.459
715	Pre-sedimentation Tank								
715-3	Motor control center cabinet 800Wx600Dx2000H including:- Wiring duct, cable 1.5 mm ² , terminal with fuse for 24VDC and 0VDC- Step down transformer for control wiring- UPS 1000kVA- Rack- Install & supply IMC conduit and support work	lot	1	11.076.250	11.076.250	17.722.000	17.722.000	11.076.250	11.076.250
*	Instrumentation devices								

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
715-4	Level Switch with changing liquid levels, displacing a shuttle which magnetically actuates a hermetically sealed switch within the unit, maximum pressure 16bar	set	1	1.550.675	1.550.675	4.430.500	4.430.500	1.550.675	1.550.675
					12.626.925	-	22.152.500		12.626.925
716	RSF Tank								
716-1	Network switch: - 8 x 10/100/1000 ports, 2 x combo mini-GBIC ports - Built-in switch configuration utility for easy browser-based device configuration (HTTP/HTTPS). Supports configuration, system dashboard, system maintenance, and monitoring - Media converter, 1x10/100/1000mbps RJ45 port, wave length 850nm, 1000Base-Fx/1000Base-SX/1000Base-T	set	1	3.136.794	3.136.794	26.583.000	26.583.000	3.136.794	3.136.794
716-2	Optical fibre cable work: - OFC 4cores, multi-mode - Optical distribution frame (ODF) - Optical patch cord - Splicing services	lot	1	8.861.000	8.861.000	8.861.000	8.861.000	8.861.000	8.861.000
716-3	Programmable logic controller devices: - Built in CPU, 100-240VAC Powered, 24VDC Inputs, transistor outputs - I/O port : 14 inputs DC 24V, 10 transistor outputs - Expansion I/O module: Transistor output block - 8 points - Analogue I/O module: 6 analogue inputs/ 1 analogue output, 12 bit	lot	1	21.399.226	21.399.226	22.152.500	22.152.500	21.399.226	21.399.226

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
	(current/voltage) - RS485 interface module with modbus protocol, direct connection & data monitor - HMI interface : 8.4" VGA TFT, 65K colour Graphic Operator terminal, 640x480 pixel touch screen, with Ethernet, RS232 & RS422/485, USB (host & device) connections, plus SD memory card slot.								
716-4	Motor control center cabinet 800Wx600Dx2000H including:- Wiring duct, cable 1.5 mm ² , terminal with fuse for 24VDC and 0VDC- Step down transformer for control wiring- UPS 1000kVA- Rack	lot	1	11.076.250	11.076.250	17.722.000	17.722.000	11.076.250	11.076.250
716-5	Soft starter, 45kW, 400V, 50Hz, IP20, including manual switch, emergency stop, thermal overload relay, indicating lamp, and other	set	1	12.179.888	12.179.888	2.658.300	2.658.300	12.179.888	12.179.888
716-6	FD 0.6/1.0kV 4C-50.0 mm ² cable for submersible pump	m	30	415.138	12.454.136	256.969	7.709.070	400.193	12.005.787
*	Instrumentation devices							-	-
716-9	Ultrasonic level transmitter and controller: continuous level measurement up to 5.5 m (18') with a 4 to 20 mA signal output	ea	4	7.890.277	31.561.110	7.088.800	28.355.200	7.890.277	31.561.110
716-10	Level Switch with changing liquid levels, displacing a shuttle which magnetically actuates a hermetically sealed switch within the unit, maximum pressure 16bar	ea	5	1.550.675	7.753.375	4.430.500	22.152.500	1.550.675	7.753.375
716-12	Pressure switch, Switch output hermetically sealed SPDT or DPDT switch	ea	1	3.157.440	3.157.440	3.544.400	3.544.400	3.157.440	3.157.440
716-13	Supply & installation of filter control units (for backwashing purpose) as described in	set	-	-	-	-	-	-	-

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
	clause 19.7.5.7 of particular electrical specification for manual/semi-auto operation of backwashing system including necessary controls, wiring etc. It shall consists (not limited) of filter selector switch, auto-manual (“Auto-0-Manu”) selector switch, backwashing starting switch (semi-auto mode), switch for backwash pump on-off (for manual backwashing purpose), air flow rate indicator, backwash water flow rate indicator, status indicators for air-blower & backwash pumps, motorized valves etc. Rate shall include for control box WITH Polyester powder coated in RAL 7032, IP65, installed on the floor (750mm high from the floor) and associated accessories.								
					111.579.218	-	139.737.970		111.130.869
717	Clear water tank and pump house								
717-1	Network switch:- 8 x 10/100/1000 ports, 2 x combo mini-GBIC ports- Built-in switch configuration utility for easy browser-based device configuration (HTTP/HTTPS). Supports configuration, system dashboard, system maintenance, and monitoring- Media converter, 1x10/100/1000mbps RJ45 port, wave length 850nm, 1000Base-Fx/1000Base-SX/1000Base-T	set	1	3.136.794	3.136.794	26.583.000	26.583.000	3.136.794	3.136.794
717-2	Optical fibre cable work:- OFC 4cores, multi-mode	lot	1	8.861.000	8.861.000	8.861.000	8.861.000	8.861.000	8.861.000

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
	- Optical distribution frame (ODF) - Optical patch cord - Splicing services								
717-3	Programmable logic controller devices: - Built in CPU, 100-240VAC Powered, 24VDC Inputs, transistor outputs - I/O port : 14 inputs DC 24V, 10 transistor outputs - Expansion I/O module: 16 inputs (24V DC) - Analogue I/O module: 6 analogue inputs/ 1 analogue output, 12 bit (current/voltage) - RS485 interface module with modbus protocol, direct connection & data monitor - HMI interface : 8.4" VGA TFT, 65K colour Graphic Operator terminal, 640x480 pixel touch screen, with Ethernet, RS232 & RS422/485, USB (host & device) connections, plus SD memory card slot.	lot	1	21.918.127	21.918.127	22.152.500	22.152.500	21.918.127	21.918.127
717-4	Motor control center cabinet 1600Wx600Dx2000H including: - Wiring duct, cable 1.5 mm ² , terminal with fuse for 24VDC and 0VDC - Step down transformer for control wiring - UPS 1000kVA - Rack	set	1	22.152.500	22.152.500	17.722.000	17.722.000	22.152.500	22.152.500
717-5	Soft starter, 90kW, 400V, 50Hz, IP20, including manual switch, emergency stop, thermal overload relay, indicating lamp, and other	set	2	20.017.885	40.035.770	2.658.300	5.316.600	20.017.885	40.035.770

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
717-6	Soft starter, 22kW, 400V, 50Hz, IP20, including manual switch, emergency stop, thermal overload relay, indicating lamp, and other	set	2	9.054.967	18.109.935	2.658.300	5.316.600	9.054.967	18.109.935
717-7	Variable drive frequency inverte, 3-Phase In, 0.2 → 400Hz Out 3.7 kW, 400 V ac, 9.5 A, IP20, Profibus	set	1	8.488.838	8.488.838	5.316.600	5.316.600	8.488.838	8.488.838
717-8	Install & Supply Cable and IMC conduit for highlift pump, plant water supply pump & backwash water pump	lot	1	33.228.750	33.228.750	8.861.000	8.861.000	33.228.750	33.228.750
*	Instrumentation devices							-	-
717-10	Ultrasonic level transmitter and controller: continuous level measurement up to 5.5 m (18') with a 4 to 20 mA signal output	ea	3	7.890.277	23.670.832	7.088.800	21.266.400	7.890.277	23.670.832
717-11	Level Switch with changing liquid levels, displacing a shuttle which magnetically actuates a hermetically sealed switch within the unit, maximum pressure 16bar	ea	6	1.550.675	9.304.050	4.430.500	26.583.000	1.550.675	9.304.050
					188.906.596		147.978.700		188.906.596
718	Training course, Testing and Commissioning								
718-1	Testing and Commissioning for Electrical Work	lot	1	155.067.500	155.067.500	26.583.000	26.583.000	155.067.500	155.067.500
718-2	Testing and Commissioning for SCADA Work	lot	1	132.915.000	132.915.000	26.583.000	26.583.000	132.915.000	132.915.000
718-3	Training course for SCADA work, operation and maintenance work (5days)	lot	1	44.305.000	44.305.000	44.305.000	44.305.000	44.305.000	44.305.000
*	Equipment and Instrumentation Spare Part								
718-4	Supply of spare parts such as Accessories of Capacitor-banks, Fuses, MCs, Soft Start-Stops, VFD cards (each VFD-minimum 2 cards), CCTV equipment,	lot	1	26.583.000	26.583.000	17.722.000	17.722.000	26.583.000	26.583.000

Item No.	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ກີບ	ກີບ	ກີບ	ກີບ	ກີບ	ກີບ
	lights etc. for next five years use. Approval for the list of spare parts shall be obtained prior to place the order.								
					358.870.500		115.193.000		358.870.500
719	Provision Sump for quantity variation and items variation under Bill no. 7	PS	4%		156.208.379		89.681.118		
Total for Bill No. 7: Electrical and Control Works					4.061.417.843		2.331.709.060		3.391.639.596

ໃບຄິດໄລ່ລາຄາທີ 8
ກໍ່ສ້າງຫ້ອງການ ແລະ ສາງ

Item No	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	Supply & installation rates of all materials, plants, equipment shall include: (i) All materials, plants, equipment, supplied under this bill, shall be brand new and from the original source. (ii) Material cost, transport (up to the installation location), insurance, handling, storing etc. (iii) Testing of materials & submission of test reports prior to shipping, third party certification, all other documentation. (iv) Custom clearing and dealing with local authorities for formal approval etc. (v) The contractor is responsible to check the BOQ with tender/design drawings prior to pricing of BOQ. If unit indicates “set”, the rate of the item shall include for all the labour, materials, plants & equipment, required to complete such item, as per the specification and tender/design drawings to fulfill the purpose. (vi) It is assume that rates for items, shown in drawings &/or specified in the technical specification, and not specified in the BOQ, are included in other rates (stated below), furnished in the bid. (vii) QA/QC of the construction (Concrete mix design and other all tests such as compaction test, concrete cube/cylinder test, testing of reinforcement etc.)								
800	Construction of BNP Office building								
*	Earthworks/Foundations								
800-1	Site clearance and remove unsuitable for construction around BNP Office before and after construction offset from boundary BNP office 2.00m.	m2	1.500	4.430,50	6.645.750,00	2.658,30	3.987.450,00	691.380.000	691.380.000
800-2	Soil excavation for footings (below the ground level ,as specified on the drawings)	m3	130	31.013,50	4.031.755,00	13.291,50	1.727.895,00		
800-3	Hard fill compaction under the foundation up to the level as indicated on the drawings.	m3	100	42.089,75	4.208.975,00	35.444,00	3.544.400,00		
800-4	Compacted sand below lean concrete of footing, ground slab and footpath.	m3	12	42.089,75	505.077,00	53.166,00	637.992,00		
800-5	Backfill inside the building with sand/gravel watered with anti-termite	m3	50	42.089,75	2.104.487,50	35.444,00	1.772.200,00		

Item No	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	product and covered by plastic sheet.								
801	Reinforced Concrete, Masonry , and Plastering								
801-1	Lean concrete -Class C (16MPa) under footings, ground beam around the building	m3	6	664.575,00	3.987.450,00	620.270,00	3.721.620,00		
801-2	R.C structure of the building (footing , ground beams, first floor beam, roof beam, ridge beam, ground slab, first floor slab, columns, stairs ,lintels, concrete gutter & etc.) using concrete -Class B (25MPa).	m3	80	2.835.520,00	226.841.600,00	2.215.250,00	177.220.000,00		
801-3	Brick masonry 20cm thick for retaining wall around the building and supporting the ground beams inside the building	m2	36	212.664,00	7.655.904,00	230.386,00	8.293.896,00		
801-4	Brick masonry 10cm thick for partition walls	m2	400	106.332,00	42.532.800,00	115.193,00	46.077.200,00		
801-5	Cement mortar plastering (15mm th.) on brickwalls, beam, columns etc. including preparation of edge line preparation and cement plaster ceiling (Ceiling type C3)	m2	1.020	39.874,50	40.671.990,00	132.915,00	135.573.300,00		
801-6	Decorative moulding outside wall, at Ground beam level and First floor beam, size 5x10cm.	m	90	31.013,50	2.791.215,00	44.305,00	3.987.450,00		
801-7	Concrete with wire mesh steel for footpath around building 10cm thick, (using concrete class C)	m3	6	886.100,00	5.316.600,00	620.270,00	3.721.620,00		
802	Roof and Ceiling								
802-1	Supply and erect roofing structure made of steel sections including eave fascia made of hard wood and necessary items	m2	170	181.650,50	30.880.585,00	159.498,00	27.114.660,00		

Item No	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	to be incorporated in the roof structure as shown on drawings.								
802-2	Supply and setting of “corrugated non-asbestos cement sheets” including coping tiles on the top and ridges and other accessories in compliance with the drawings.	m2	170	106.332,00	18.076.440,00	97.471,00	16.570.070,00		
802-3	Indoor ceiling using flexi boards fixed on hard-wooden grid duly painted with anti-termite chemical product, including necessary plaster using gypsum powder. (Ceiling type C1+C2 refer to drawings)	m2	177	101.901,50	18.036.565,50	132.915,00	23.525.955,00		
802-4	Outdoor ceiling using "Shera product" or equivalent and ceiling grid (4x8cm@60cm) made of hard wood with 2 coats of anti-termite product –including wood strip along the ceiling/wall junction. (Ceiling type C4 refer to drawings)	m2	49	239.247,00	11.603.479,50	132.915,00	6.446.377,50		
803	Floor and Walls Finishing works								
803-1	Ceramic tiles 60x60cm of floors (inside the house + veranda etc..) using rough surface tiles. (Refer to Drwg. Floor finishing plan_floor type F1)	m2	175	221.525,00	38.766.875,00	132.915,00	23.260.125,00		
803-2	Ceramic tiles 30x30cm for Stair. (Refer to Drwg. Floor finishing plan_floor type F2)	m2	15	106.332,00	1.594.980,00	106.332,00	1.594.980,00		
803-3	Ceramic tiles 25x25cm for toilet flooring. (Refer to Drwg. Floor finishing plan_floor type F2)	m2	11	106.332,00	1.169.652,00	106.332,00	1.169.652,00		

Item No	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
803-4	Ceramic tiles for skirting -15cm high	m	170	19.937,25	3.389.332,50	106.332,00	18.076.440,00		
803-5	Ceramic tiles 45x25cm on toilet walls (up to the ceiling) using polished surface tiles. (Refer to Drwg. Interior elevations)	m2	70	106.332,00	7.443.240,00	132.915,00	9.304.050,00		
803-6	Granite (or equivalent) on counter and lavatory table	m2	6	310.135,00	1.860.810,00	221.525,00	1.329.150,00		
804	Door, Windows								
*	Supply and installation of door-complete set (door panel made of hard wood including glass 5mm thick, frame, hinge/lock including wooden strip around the frame etc...) in compliance with drawings.								
804-1	Type D1 170x205cm double swing door, aluminum frame and panel. (Refer to drwg. sheet PO-13 Door details)	set	1	8.861.000,00	8.861.000,00	3.721.620,00	3.721.620,00		
804-2	Type D2 185x205cm double slide door, aluminum frame and panel. (Refer to drwg. sheet PO-13 Door details)	set	2	10.633.200,00	21.266.400,00	3.721.620,00	7.443.240,00		
804-3	Type D3- 90x205cm single swing door, hard wood frame and panel. (Refer to drwg. sheet PO-13 Door details)	set	9	3.101.350,00	27.912.150,00	3.101.350,00	27.912.150,00		
804-4	Type D4-80x205cm, hard wood frame and panel + louver. (Refer to drwg. sheet PO-13 Door details)	set	3	2.215.250,00	6.645.750,00	3.101.350,00	9.304.050,00		
*	Supply and Installation of window-complete set (5mm th.of fix glass panels and frame made of hard wood, including hinges, locks, and wooden strip around the frame and other accessories..)								

Item No	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
804-5	Type W1 : 70 x 120cm (Refer to drwg. sheet PO-14 Window details)	set	2	1.329.150,00	2.658.300,00	1.373.455,00	2.746.910,00		
804-6	Type W2 : 163 x 120cm (Refer to drwg. sheet PO-14 Window details)	set	10	1.772.200,00	17.722.000,00	1.417.760,00	14.177.600,00		
804-7	Type W3: 50 x 60cm (Refer to drwg. sheet PO-14 Window details)	set	3	575.965,00	1.727.895,00	708.880,00	2.126.640,00		
804-8	Type W4: 350 x 165cm (Refer to drwg. sheet PO-15.1 Window details)	set	1	3.101.350,00	3.101.350,00	1.329.150,00	1.329.150,00		
804-9	Type W5: 277 x 120cm (Refer to drwg. sheet PO-15.2 Window details)	set	1	2.658.300,00	2.658.300,00	1.329.150,00	1.329.150,00		
804-10	Type W6: 200 x 120cm (Refer to drwg. sheet PO-15.2 Window details)	set	1	2.215.250,00	2.215.250,00	1.329.150,00	1.329.150,00		
804-11	Type W7: 56 x 194cm (Refer to drwg. sheet PO-15.2 Window details)	set	2	886.100,00	1.772.200,00	1.063.320,00	2.126.640,00		
804-12	Exhaust fan frame 35x35cm made of hard wood (Refer to drwg. sheet PO-16 Window details)	set	3	132.915,00	398.745,00	620.270,00	1.860.810,00		
*	Carpentry			0,00	0,00	0,00	0,00		
804-13	Supply and install handrail at the staircase 80cm high, including 3 coats of oil paintor instructed by Engineer.	m	9	296.843,50	2.523.169,75	221.525,00	1.882.962,50		
805	Sanitary and Plumbing work								
805-1	Supply and install water-closet (white color) Cotto No. Tiara C186 or equivalent including valve and fitting.	set	3	2.073.474,00	6.220.422,00	1.329.150,00	3.987.450,00		
805-2	Supply and install lavatory including valve and accessories model: Jade 007 or equivalent	set	3	841.795,00	2.525.385,00	1.063.320,00	3.189.960,00		
805-3	Supply and install paper holder Cotto C830	unit	3	172.789,50	518.368,50	88.610,00	265.830,00		

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
805-4	Supply and install stainless steel floor drain Ø50mm	unit	3	146.206,50	438.619,50	88.610,00	265.830,00		
805-5	Supply and install Rinsing Sprayer Cotto Ct667	unit	3	310.135,00	930.405,00	88.610,00	265.830,00		
805-6	Supply and install mirror with aluminum frame (miniimum 90cmx100cm)	unit	3	443.050,00	1.329.150,00	221.525,00	664.575,00		
805-7	Supply and install water pipe using Dia. 13-25mm pipes including necessary fittings, valves etc..	LS	1	2.038.030,00	2.038.030,00	1.063.320,00	1.063.320,00		
805-8	Supply and install waste water pipe from lavatory and urinal to drainage as indicated on the drawings.	LS	1	3.987.450,00	3.987.450,00	1.063.320,00	1.063.320,00		
805-9	Supply and install connecting pipes D100mm from WCs to septic tank and from septic tank to drainage, including D75mm for ventilation as shown on drawings (including all necessary fittings).	LS	1	2.746.910,00	2.746.910,00	1.063.320,00	1.063.320,00		
805-10	Construction of RC. + Brick Septic tank as specified on the drawings.	LS	1	9.038.220,00	9.038.220,00	13.291.500,00	13.291.500,00		
806	Painting Work								
806-1	Emulsion paint (3 coats) with primer coat on building interior walls and gypsum board ceiling using Maestra Lao paint (or equivalent).	m2	695	35.444,00	24.633.580,00	35.444,00	24.633.580,00		
806-2	Emulsion paint (3 coats) with primer coat on building exterior walls using Maestra Lao paint (or equivalent)	m2	310	39.874,50	12.361.095,00	35.444,00	10.987.640,00		
806-3	Urethane paint on door and window frames and wooden ceiling.	m2	50	17.722,00	886.100,00	39.874,50	1.993.725,00		
806-4	Oil paint (3 coats) on wooden eave	m2	32	17.722,00	567.104,00	39.874,50	1.275.984,00		

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	fascia, ventilation devices and steel components including anti-corrosive paint on steels.								
807	Miscellaneous								
807-1	Construction of a RC. counter for cashier, including glass panel above the counter in accordance with the drawings	set	1	3.987.450	3.987.450,00	8.861.000,00	8.861.000,00		
807-2	RC. seat at the main entrance with ceramic tiles as shown on the drawings	m	4	407.606,00	1.630.424,00	451.911,00	1.807.644,00		
807-3	Construction of 2 columns at the main entrance in accordance with the drawings	set	2	1.594.980	3.189.960,00	1.329.150,00	2.658.300,00		
807-4	Sign name's NAMPAPA district above office entrance (to be approved by Engineer and PIU)	set	1	3.544.400	3.544.400,00	8.861.000,00	8.861.000,00		
808	Construction of small Storage (next to the BNP Office building)							301.290.000	301.290.000
*	Earthworks								
808-1	Soil excavation for footings (below the ground level ,as specified on the drawings)	m3	35	28.798,25	1.007.938,75	13.291,50	465.202,50		
808-2	Hard fill compaction under the foundation up to the level as indicated on the drawings.	m3	30	19.937,25	598.117,50	35.444,00	1.063.320,00		
808-3	Backfill inside the building with sand/gravel watered with anti-termite product and covered by plastic sheet.	m3	9	42.089,75	378.807,75	35.444,00	318.996,00		
809	Concrete, Masonry and Plastering works								
809-1	Lean concrete - Class C (16MPa) under footings, retaining walls around the	m3	2	664.575,00	996.862,50	531.660,00	797.490,00		

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	building and under ground beams.								
809-2	R.C structure of the building footing , ground beams, columns, ground floor slab, roof beam, lintels & etc..., using concrete class B (25MPa)	m3	17	2.835.520	48.203.840,00	2.215.250,00	37.659.250,00		
809-3	Concrete with wire mesh steel for footpath around building 10cm thick, (using concrete class C)	m3	3	886.100,00	2.215.250,00	531.660,00	1.329.150,00		
809-4	Brick masonry 20cm thick for retaining wall around the building and supporting the ground beams inside the building	m2	11	212.664,00	2.339.304,00	230.386,00	2.534.246,00		
809-5	Brick masonry 10cm thick for partition walls, facades & place for flowers	m2	87	106.332,00	9.250.884,00	115.193,00	10.021.791,00		
809-6	Cement block wall masonry for ventilation	m2	6	84.179,50	462.987,25	115.193,00	633.561,50		
809-7	Cement mortar plastering (15mm th.) on brick walls, beam, columns , retaining wall etc.. Including preparation of edge line for corner	m2	174	37.659,25	6.552.709,50	132.915,00	23.127.210,00		
809-8	Decorative brick masonry-brick apparent for outside walls	m2	5	70.888,00	354.440,00	159.498,00	797.490,00		
809-9	Decorative moulding outside wall, at ground beam level size 5x10cm	m	30	48.735,50	1.462.065,00	44.305,00	1.329.150,00		
810	Roof and Ceiling								
810-1	Supply and erect steel roofing structure, hard wood eave fascia including "corrugated asbestos cement sheets", copping tiles on the top of ridges and other accessories in compliance with the drawings.	m2	108	243.677,50	26.195.331,25	159.498,00	17.146.035,00		
810-2	Indoor ceiling using Gypsum boards fixed on hard-wooden grid duly painted	m2	44	101.901,50	4.483.666,00	132.915,00	5.848.260,00		

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	with anti-termite chemical product, including necessary plaster using gypsum powder.								
810-3	Outdoor ceiling using "Shera product" or equivalent and ceiling grid (4x8cm@60cm) made of hard wood with 2 coats of anti-termite product –including wood strip along the ceiling/wall junction.	m2	35	239.247,00	8.373.645,00	132.915,00	4.652.025,00		
811	Floor and Walls Finishing works								
811-1	Ceramic tiles 30x30cm of Terrace, Locked store/ Office floors inside the house using rough surface tiles	m2	28	106.332,00	2.977.296,00	106.332,00	2.977.296,00		
811-2	Cement polish for storage floor	m2	25	31.013,50	775.337,50	106.332,00	2.658.300,00		
811-3	Ceramic tiles for skirting-15cm high for	m	40	24.367,75	974.710,00	106.332,00	4.253.280,00		
812	Door & Windows								
*	Supply and installation of door-complete set (door panel made of hard wood including glass 5mm thick, frame, hinge/lock including wooden strip around the frame etc...) in compliance with drawings.								
812-1	Type D1-80x210cm	set	3	1.860.810	5.582.430,00	3.101.350,00	9.304.050,00		
812-2	Type D2-Rolling door WxH=220x240cm with accessories as shown in drawings	set	1	1.594.980	1.594.980,00	6.202.700,00	6.202.700,00		
*	Supply and Installation of window-complete set (5mm th. of fix glass panels and frame made of hard wood, including								

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	hinges, locks, wooden strip around the frame and anti-burglar net with other accessories...)								
812-3	Type W2: 2 x 80 x 120cm	set	2	1.643.715	3.287.431,00	2.215.250,00	4.430.500,00		
812-4	Type W3: Hard wood louver for roof ventilation made of hard wood in compliance with the drawings.	set	3	1.107.625	3.322.875,00	1.063.320,00	3.189.960,00		
812-5	Exhaust fan frame 25x25cm made of hard wood or by complete set from manufactory in compliance with the drawings.	set	2	132.915,00	265.830,00	620.270,00	1.240.540,00		
813	Painting Works								
813-1	Emulsion paint (3 coats) with primer coat on building interior walls using Maestra Lao paint (or equivalent).	m2	150	35.444,00	5.298.878,00	35.444,00	5.298.878,00		
813-2	Emulsion paint (3 coats) with primer coat on gypsum board ceiling using Maestra Lao paint (or equivalent).	m2	84	39.874,50	3.329.520,75	35.444,00	2.959.574,00		
813-3	Emulsion paint(3 coats) with primer coat on building exterior walls using Maestra Lao paint (or equivalent)	m2	30	39.874,50	1.196.235,00	35.444,00	1.063.320,00		
813-4	Urethane paint on door and window frames, all exposed decorative brick walls and wooden ceiling.	m2	10	22.152,50	228.170,75	39.874,50	410.707,35		
813-5	Oil paint (3 coats) on hard wood exterior ceiling, eave fascia & ventilation	m2	40	39.874,50	1.594.980,00	39.874,50	1.594.980,00		
814	Miscellaneous								
814-1	RC. seat at the main entrance with ceramic tiles as shown on the drawings	m	3	407.606,00	1.222.818,00	451.911,00	1.355.733,00		
814-2	Construction of 2 columns at the main	set	2	886.100,00	1.772.200,00	1.329.150,00	2.658.300,00		

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	entrance in accordance with the drawings								
814-3	Supply and install bench handrail at the bench 52cm high, including 3 coats of oil painter instructed by Engineer.	m	3	354.440,00	1.063.320,00	221.525,00	664.575,00		
815	Outdoor works			886.100,00	1.772.200,00	1.329.150,00	2.658.300,00		
815-1	Site clearance and remove unsuitable for construction around BNP Office before and after construction offset from boundary BNP office 2.00m.	m2	3.500	4.430,50	15.506.750,00	2.658,30	9.304.050,00	3.134	10.968.874
815-2	Excavation of gravel/sand/clay mixtures down to levels shown on the drawings for the full BNP office area Includes transportation and disposal of excess material at an approved location off-site.	m3	1.800	31.013,50	55.824.300,00	15.949,80	28.709.640,00	17.992	32.385.773
815-3	Rock excavation around entire BNP office site as required. Includes disposal off-site at an approved location	m3	10	88.610,00	886.100,00	88.610,00	886.100,00	78.450	784.503
815-4	Backfill and compaction of soil all BNP Office boundary up to Construction level shown on drawing and define as specification.	m3	215	66.457,50	14.288.362,50	35.444,00	7.620.460,00	22.800	4.901.906
815-5	Supply and laying Gravel pavement 10-25mm for 3cm thick of Access road, parking area and walkway etc... as shown on the drawings.	m2	1.250	26.583,00	33.228.750,00	115.193,00	143.991.250,00	249.069	311.335.850
*	Open drain channel & pipe culvert							-	-
815-6	Construction Stone masonry open drain channel No. 1 around the boundary BNP Office as shown on drawings.	m	83	354.440,00	29.418.520,00	354.440,00	29.418.520,00	651.154	54.045.786
*	Entrance gate, fence and miscellaneous							-	-
815-7	Construction of Entrance gate (type 1)	LS	1	10.633.200,00	10.633.200,00	17.722.000,00	17.722.000,00	-	10.633.200

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	for front side of BNP office including painting, steel sliding gate with accessories... in compliance with the issued drawings								
815-8	Construction of fence No.1 in front of BNP Office as specify on the standard drawings.	m	96	708.880,00	68.052.480,00	886.100,00	85.065.600,00	683.360	65.602.591
815-9	Supply and install permanent signboard, minimum 2x1.5m next to main entrance gate. decorated with granite, washed gravel and carved letters design to be approved by engineer.	LS	1	8.861.000	8.861.000,00	26.583.000,00	26.583.000,00	-	8.861.000
815-10	Construction of fence type No. 2 around BNP (Chain link fencing) as specify on the standard drawings.	m	180	354.440,00	63.799.200,00	239.247,00	43.064.460,00	341.680	61.502.429
815-11	Grass planting including backfill with top soil (10cm thickness) around all BNP office as shown on the drawings.	m2	3.475	26.583,00	92.375.925,00	31.013,50	107.771.912,50	25.626	89.050.392
815-12	Tap stand arrangements including all fittings required to be fed from 63mm HDPE Pipe. Detail of tap stand same as for domestic connection meter drawing. (as specified by Engineer)	LS	1	2.215.250	2.215.250,00	2.658.300,00	2.658.300,00	-	2.215.250
*	Access Road No.4 the BNP office -RC Road (50m)							-	-
815-13	Site clearing including removal of stumps <500mm	m2	300	4.430,50	1.329.150,00	2.658,30	797.490,00	3.134	940.189
815-14	Soil excavation	m3	140	26.583,00	3.721.620,00	13.291,50	1.860.810,00	17.992	2.518.893
815-15	Extra over 815-14 for rock excavation and/or reinforced concrete structures around construction site as required.	m3	10	88.610,00	886.100,00	88.610,00	886.100,00	78.450	784.503

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				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	Includes disposal off-site at an approved location (Provisional quantity)								
815-16	Embankment	m3	42	31.013,50	1.302.567,00	70.888,00	2.977.296,00	22.800	957.582
815-17	Sub-base Thickness 150mm, Compacted 95%-CBR>25%.	m3	46	106.332,00	4.891.272,00	115.193,00	5.298.878,00	87.837	4.040.492
815-18	Reinforced concrete - Class A (30MPa) for road surface with 150mm thickness.	m3	36	3.278.570	118.028.520,00	2.215.250,00	79.749.000,00	2.135.501	76.878.036
815-19	Construction of stone masonry open channel drains (Type drain no.1) along road side as shown on drawings as specified in the drawing No.: WS-ST-37	m	50	354.440,00	17.722.000,00	354.440,00	17.722.000,00	588.040	29.402.000
815-20	Reinforced concrete pipe culvert Dia.600, L=8m, Including RC wingwalls excavation, wingwall inlet-outlet, sand backfill, lean concrete joints, trust block as shown on the drawings	set	1	7.088.800	7.088.800,00	5.316.600,00	5.316.600,00	5.316.600	5.316.600
815-21	Traffic Posts	set	4	443.050,00	1.772.200,00	575.965,00	2.303.860,00	1.543.002	6.172.008
815-22	Traffic warning Sign (Limit to 30km/h)	set	2	708.880,00	1.417.760,00	575.965,00	1.151.930,00	1.543.002	3.086.004
816	Provision Sump for quantity variation and items variation under Bill no. 8	PS	5%		68.038.191,64		73.049.574,49		
	Total for Bill No. 8: Construction of BNP Office and Storage				1.428.802.024,3		1.534.041.064,3		1.775.053.861

ໃບຄິດໄລ່ລາຄາທີ 9
ກໍ່ສ້າງຫ້ອງນ້ຳສາທາລະນະ

Item No	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	Supply & installation rates of all materials, plants, equipment shall include: (i) All materials, plants, equipment, supplied under this bill, shall be brand new and from the original source. (ii) Material cost, transport (up to the installation location), insurance, handling, storing etc. (iii) Testing of materials & submission of test reports prior to shipping, third party certification, all other documentation. (iv) Custom clearing and dealing with local authorities for formal approval etc. (v) The contractor is responsible to check the BOQ with tender/design drawings prior to pricing of BOQ. If unit indicates “set”, the rate of the item shall include for all the labour, materials, plants & equipment, required to complete such item, as per the specification and tender/design drawings to fulfill the purpose. (vi) It is assume that rates for items, shown in drawings &/or specified in the technical specification, and not specified in the BOQ, are included in other rates (stated below), furnished in the bid. (vii) QA/QC of the construction (Concrete mix design and other all tests such as compaction test, concrete cube/cylinder test, testing of reinforcement etc.)								
900	Public Toilet Building with 2 Rooms								
*	Earthworks								
900-1	Clearing and grubbing including levelling	m²	14,80	1.936	28.655	4.431	65.571	43.902.000	43.902.000
900-2	Excavation for footing and under ground beam	m³	4,43	25.475	112.856	17.722	78.508		
900-3	Sand filling and compaction	m³	3,80	248.436	944.056	106.332	404.062		
900-4	Backfilling	m³	4,43	12.738	56.428	17.722	78.508		
*	Concrete works								
900-5	Lean concrete class C for footing and brick wall 20 cm under ground beam	m³	0,84	664.575	558.243	797.490	669.892		
900-6	Reinforced concrete class B for footing	m³	0,21	2.481.080	521.027	2.658.300	558.243		
900-7	Reinforced concrete class B for column under ground beam	m³	0,05	2.481.080	129.016	2.658.300	138.232		
900-8	Reinforced concrete class B for ground beam	m³	0,42	2.481.080	1.042.054	2.658.300	1.116.486		
900-9	Reinforced concrete class B for column	m³	0,26	2.481.080	645.081	2.658.300	691.158		
900-10	Reinforced concrete class B for slab, e=10cm	m³	1,10	2.481.080	2.729.188	2.658.300	2.924.130		

Item No	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
900-11	Concrete class B for slab around the building, e=7cm	m³	0,85	664.575	564.889	797.490	677.867		
900-12	Reinforced concrete class B for roof beam	m³	0,44	2.481.080	1.091.675	2.658.300	1.169.652		
900-13	Reinforced concrete class B for lintel	m³	0,20	2.481.080	496.216	2.658.300	531.660		
900-14	Reinforced concrete class B for basin	m³	0,08	2.481.080	198.486	2.658.300	212.664		
900-15	Reinforced concrete class B for lavatory's desk	m³	0,10	2.481.080	248.108	2.658.300	265.830		
*	Masonry and Finishing works								
900-16	Brick wall 20cm under ground beam and plastering one side	m²	10,00	382.131	3.821.306	212.664	2.126.640		
900-17	Brick wall 10cm and plastering two sides	m²	37,50	173.233	6.496.221	106.332	3.987.450		
900-18	Louvred block installation	m²	2,25	76.426	171.959	106.332	239.247		
900-19	Edge preparation for column and beam	lm	80,00	19.157	1.532.599	17.722	1.417.760		
900-20	Ceramic tile for floor, lavatory's desk and wall skirting	m²	17,00	121.059	2.058.003	88.610	1.506.370		
900-21	Cement mortar for slab around the building	m²	12,00	34.443	413.312	35.444	425.328		
900-22	Name plate for man and women toilet	pce	2,00	127.377	254.754	35.444	70.888		
*	Door and Window works								
900-23	Installation of hardwood door frame and door panel D1 including accessories	set	2,00	1.528.523	3.057.045	1.329.150	2.658.300		
*	Roof and Ceiling works								
900-24	Hardwood for roof structure and installation corrugated zinc roofing completed	m²	23,50	98.131	2.306.082	106.332	2.498.802		
900-25	Provide hardwood for eave and fascia	lm	19,50	63.688	1.241.925	22.153	431.974		
900-26	Provide rain gutter 4.3m and outlet pipe 3m	set	2,00	318.442	636.884	398.745	797.490		
900-27	External ceiling with wooden plank including provide wooden strip	m²	7,00	86.616	606.314	106.332	744.324		
900-28	Internal ceiling with flat fibro sheet including provide wooden strip	m²	12,50	99.354	1.241.925	106.332	1.329.150		
*	Electric and Accessories								

Item No	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
900-29	Wiring and installation fluorescent lamp 20W	set	4,00	140.115	560.458	106.332	425.328		
*	Sanitary Equipment, Plumbing and Septic								
900-30	Complete installation of toilet squat	set	2,00	121.059	242.118	221.525	443.050		
900-31	Installation lavatory and accessories	set	2,00	305.705	611.409	354.440	708.880		
900-32	Installation stainless mesh for waste water	set	4,00	25.475	101.902	39.875	159.498		
900-33	Installation stainless floor drain dia. 50mm including 90deg. Bend for waste water	set	4,00	81.521	326.085	39.875	159.498		
900-34	Pipe laying diameter 100mm PVC for septic	lm	5,00	63.688	318.442	53.166	265.830		
900-35	Pipe laying diameter 75mm PVC for waste water	lm	6,00	63.688	382.131	35.444	212.664		
900-36	Pipe laying diameter 50mm PVC for waste water	lm	4,00	63.688	254.754	26.583	106.332		
900-37	Pipe laying diameter 25mm PVC for clean water	lm	10,00	50.951	509.508	17.722	177.220		
900-38	Pipe laying diameter 18mm PVC for clean water	lm	4,00	38.213	152.852	10.633	42.533		
900-39	Complete one septic tank used for 8 persons as in drawing	set	1,00	6.202.700	6.202.700	7.974.900	7.974.900		
900-40	Complete one seepage tank as in drawing	set	1,00	445.819	445.819	478.494	478.494		
*	Painting Works								
900-41	3 coats emulsion paint for inside wall and ceiling	m²	67,50	8.967	605.295	13.292	897.176		
900-42	3 coats emulsion paint for outside wall	m²	22,00	8.967	197.281	13.292	292.413		
900-43	3 coats enamel paint for external ceiling	m²	7,00	16.610	116.270	17.722	124.054		
900-44	3 coats enamel paint for door and window	m²	10,00	8.967	89.673	17.722	177.220		
900-45	3 coats enamel paint for eave and fascia	lm	20,00	10.802	216.031	3.987	79.749		
	Sub-Total for one (1) Public Toilet Building with 2 rooms			-	44.537.032	-	40.541.024		

Item No	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
Total for Fifteen (15) Public Toilet Buildings with 2 rooms for Ban Nakok (1) at Village office, Ban Phonxieng (1) at school, Ban Vangkham (2) at school and temple, Ban Thabou (1) at Village office, Ban Namkan (2) at Village office and school, Ban Phonsavanh (1) at Village office, Ban Phonmany (1) at Village office, Ban Xang (1) at Village office, Ban Phonsavang (1) at Village office, Ban Namkha (2) at Village office and school, Ban Xiengda (1) at Village office and Ban Houana (1) at Village office.									
901	Public Toilet Building with 4 Rooms							6.178.000	86.178.000
*	Earthworks								
901-1	Clearing and grubbing including levelling	m²	25,00	2.020	50.508	4.431	110.763		
901-2	Excavation for footing and under ground beam	m³	7,00	26.583	186.081	17.722	124.054		
901-3	Sand filling and compaction	m³	6,00	259.237	1.555.424	106.332	637.992		
901-4	Backfilling	m³	7,00	13.292	93.041	17.722	124.054		
*	Concrete works								
901-5	Lean concrete class C for footing and brick wall 20 cm under ground beam	m³	0,64	664.575	425.328	797.490	510.394		
901-6	Reinforced concrete class B for footing	m³	0,30	2.481.080	744.324	2.658.300	797.490		
901-7	Reinforced concrete class B for column under ground beam	m³	0,07	2.481.080	173.676	2.658.300	186.081		
901-8	Reinforced concrete class B for ground beam	m³	0,75	2.481.080	1.860.810	2.658.300	1.993.725		
901-9	Reinforced concrete class B for column	m³	0,37	2.481.080	918.000	2.658.300	983.571		
901-10	Reinforced concrete class B for slab, e=10cm	m³	2,14	2.481.080	5.309.511	2.658.300	5.688.762		
901-11	Concrete class B for slab around the building, e=7cm	m³	1,20	664.575	797.490	797.490	956.988		
901-12	Reinforced concrete class B for roof beam	m³	0,68	2.481.080	1.687.134	2.658.300	1.807.644		
901-13	Reinforced concrete class B for lintel	m³	0,36	2.481.080	893.189	2.658.300	956.988		
901-14	Reinforced concrete class B for basin	m³	0,14	2.481.080	347.351	2.658.300	372.162		
901-15	Reinforced concrete class B for lavatory's desk	m³	0,10	2.481.080	248.108	2.658.300	265.830		
*	Masonry and Finishing works								
901-16	Brick wall 20cm under ground beam and plastering one side	m²	13,50	398.745	5.383.058	212.664	2.870.964		

Item No	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
901-17	Brick wall 10cm and plastering two sides	m ²	60,39	180.764	10.916.362	106.332	6.421.389		
901-18	Louvred block installation	m ²	4,48	79.749	357.276	106.332	476.367		
901-19	Edge preparation for column and beam	lm	123,60	19.990	2.470.815	17.722	2.190.439		
901-20	Ceramic tile for floor, lavatory's desk and wall skirting	m ²	31,00	126.322	3.915.995	88.610	2.746.910		
901-21	Cement mortar for slab around the building	m ²	17,00	35.940	610.984	35.444	602.548		
901-22	Name plate for man and women toilet	pce	2,00	132.915	265.830	35.444	70.888		
*	Door and Window works								
901-23	Installation of hardwood door frame and door panel D1 including accessories	set	4,00	1.594.980	6.379.920	1.329.150	5.316.600		
*	Roof and Ceiling works								
901-24	Hardwood for roof structure and installation corrugated zinc roofing complete	m ²	36,00	102.398	3.686.318	106.332	3.827.952		
901-25	Provide hardwood for eave and fascia	lm	24,20	66.458	1.608.272	22.153	536.091		
901-26	Provide rain gutter 4.3m and outlet pipe 4m	set	2,00	332.288	664.575	398.745	797.490		
901-27	External ceiling with wooden plank including provide wooden strip	m ²	17,00	90.382	1.536.497	106.332	1.807.644		
901-28	Internal ceiling with flat fibro sheet including provide wooden strip	m ²	14,00	103.674	1.451.432	106.332	1.488.648		
*	Electric and Accessories								
901-29	Wiring and installation fluorescent lamp 20W	set	4,00	146.207	584.826	106.332	425.328		
*	Sanitary Equipment, Plumbing and Septic								
901-30	Complete installation of toilet squat	set	4,00	126.322	505.290	221.525	886.100		
901-31	Installation lavatory and accessories	set	2,00	318.996	637.992	354.440	708.880		
901-32	Installation stainless mesh for waste water	set	8,00	26.583	212.664	39.875	318.996		
901-33	Install stainless floor drain dia. 50mm including 90deg. Bend	set	2,00	85.066	170.131	39.875	79.749		
901-34	Pipe laying diameter 100mm PVC for	lm	9,00	66.458	598.118	53.166	478.494		

Item No	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ການຄິດໄລ່ ຂອງກົມນໍ້າປະປາ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
	septic								
901-35	Pipe laying diameter 75mm PVC for waste water	lm	8,00	66.458	531.660	35.444	283.552		
901-36	Pipe laying diameter 50mm PVC for waste water	lm	5,00	53.166	265.830	26.583	132.915		
901-37	Pipe laying diameter 25mm PVC for clean water	lm	14,00	39.875	558.243	17.722	248.108		
901-38	Pipe laying diameter 18mm PVC for clean water	lm	6,00	39.875	239.247	10.633	63.799		
901-39	Complete one septic tank used for 15 persons as in drawing	set	1,00	10.633.200	10.633.200	7.974.900	7.974.900		
901-40	Complete one seepage tank as in drawing	set	1,00	465.203	465.203	478.494	478.494		
*	Painting Works								
901-41	3 coats emulsion paint for inside wall and ceiling	m ²	101,00	9.357	945.079	13.292	1.342.442		
901-42	3 coats emulsion paint for outside wall	m ²	34,00	9.357	318.145	13.292	451.911		
901-43	3 coats enamel paint for external ceiling	m ²	17,00	17.332	294.646	17.722	301.274		
901-44	3 coats enamel paint for door and window	m ²	20,00	9.357	187.144	17.722	354.440		
901-45	3 coats enamel paint for eave and fascia	lm	25,00	11.271	281.780	3.987	99.686		
	Sub-Total for one (1) Public Toilet Building with 4 rooms			-					
Total for Ten (10) Public Toilet Buildings with 4 rooms for Ban Pakmong (1) at Village office, Ban Phonsavanh (1) at school, Ban Namthouamtai (2) at school and Village office, Ban Namthouamneua (2) at school and Village office, Ban Xiengda (2) at school and temple; and Ban Houana (2) at two schools.					719.665.042		592.994.956		812.171.360
902	Provision Sump for quantity variation and items variation under Bill no. 9	PS	3%		41.631.616		36.033.310		
Total for Bill No. 9: Public Sanitation as per drawings					1.429.352.140		1.237.143.632		1.520.310.000

ໃບຄິດໄລ່ລາຄາທີ 10

ອັດຕາຄິດໄລ່ລາຍວັນ

Item No	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ລາຄາກາງ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
D101	Ganger	hr	1	11.076	11.076	4.430,50	4.431	18.537	18.537
D102	Labourer	hr	1	6.203	6.203	3.544,40	3.544	17.401	17.401
D103	Bricklayer	hr	1	7.532	7.532	3.544,40	3.544	18.537	18.537
D104	Mason	hr	1	8.861	8.861	3.544,40	3.544	18.537	18.537
D105	Carpenter	hr	1	8.861	8.861	3.544,40	3.544	18.537	18.537
D106	Steelwork Erector	hr	1	16.393	16.393	3.544,40	3.544	18.537	18.537
D107	Plant Operator	hr	1	13.292	13.292	4.430,50	4.431	18.537	18.537
D108	Truck Driver	hr	1	11.697	11.697	2.658,30	2.658	26.491	26.491
	TOTAL FOR DAYWORK LABOUR				83.914		29.241		155.114
	(Carried forward to Summary)								
	2. MATERIALS								
Item No.	Description	Unit	Quantity						
D201	Cement	t	1	930.405	930.405	35.444,00	35.444	750.000	750.000
D202	Reinforcement, deformed bars	kg	1	6.203	6.203	5.316,60	5.317	9.300	9.300
D203	Fine aggregate for Concrete	m3	1	132.915	132.915	70.888,00	70.888	80.000	80.000
D204	Coarse aggregate for Concrete	m3	1	310.135	310.135	88.610,00	88.610	90.000	90.000
D205	Bricks, one coarse thick.	m2	1	86.395	86.395	35.444,00	35.444	86.395	86.395
D206	Formwork (plywood 12mm th.)	m2	1	42.090	42.090	26.583,00	26.583	42.090	42.090
D207	Formwork-timber board	m2	1	42.090	42.090	22.152,50	22.153	42.090	42.090
	TOTAL FOR DAYWORK MATERIALS				1.550.232		284.438		1.099.874
	(Carried forward to Summary)								
	3. CONSTRUCTION PLANT								
Item No.	Description	Unit	Quantity						
D301	Truck, 5-7 t.	hr	1	354.440	354.440	26.583,00	26.583	54.426	54.426

Item No	Descriptions	Unit	Quantity	ບໍລິສັດທີ່ປຶກສາ		ບໍລິສັດຮັບເໝົາກໍ່ສ້າງ		ລາຄາກາງ	
				ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)	ລາຄາ (ກີບ)	ລວມ (ກີບ)
D302	Excavator	hr	1	398.745	398.745	53.166,00	53.166	152.242	152.242
D303	Concrete mixer	hr	1	190.512	190.512	8.861,00	8.861	54.426	54.426
	TOTAL FOR CONSTRUCTION PLANT				943.697		88.610		261.095
	(Carried forward to Summary)								
Item No.	Description								
D1	TOTAL FOR DAYWORK LABOUR				83.914		29.241		155.114
D2	TOTAL FOR DAYWORK MATERIALS				1.550.232		284.438		1.099.874
D3	TOTAL FOR DAYWORK CONSTRUCTION PLANT				943.697		88.610		261.095
	TOTAL FOR DAYWORK (Provisional Sum)				2.577.842		402.289		1.516.082