

Designer: EBS Ltd. Object: "Wastewater Treatment Plant and KUZ system, Dhërmi" - Option 2 TOTAL Summary KUZ & ITUN Dhërmi		Date: 03-07-2026
<u>BILL OF QUANTITIES</u>		
NO.	DESCRIPTION	
	BILL OF QUANTITIES SUMMARY OF THE KUZ NETWORK AND DHERMI PUMPING STATION	
1	WORKS OF THE KUZ DHERMI NETWORK	
2	ELECTROMECHANICAL WORKS OF KUZ AND ST.P NO.1 AND NO.2	
3	ELECTROMECHANICAL EQUIPMENT OF KUZ AND ST.P NO.1 AND NO.2	
	BILL OF QUANTITIES SUMMARY OF ITUN AND DISCHARGE INTO THE SEA DHERMI - PHASE 1 & 2	
4	CIVIL WORKS IN ITUN DHERMI-PHASE 1	
5	CIVIL WORKS IN ITUN DHERMI-PHASE 2	
6	MECHANICAL WORKS IN ITUN DHERMI-PHASE 1	
7	MECHANICAL EQUIPMENT IN ITUN DHERMI-PHASE 1	
8	MECHANICAL WORKS IN ITUN DHERMI-PHASE 2	
9	MECHANICAL EQUIPMENT IN ITUN DHERMI-PHASE 2	
10	ELECTRICAL WORKS IN ITUN DHERMI	
11	ELECTRICAL EQUIPMENT IN ITUN DHERMI	
12	SCADA SYSTEM IN ITUN DHERMI	
13	SCADA SYSTEM EQUIPMENT IN ITUN DHERMI	
14	DISCHARGE OF TREATED WATERS FROM ITUN DHERMI INTO THE SEA	
15	EQUIPMENT FOR THE DISCHARGE OF TREATED WATERS FROM ITUN DHERMI INTO THE SEA	
16	ASSISTANCE AND TRAINING FOR ITS OPERATION	
Analysis Amount		
Reserve Fund (3.0%)		
Analysis Amount + Reserve Fund (3.0%)		
VAT amount (20%)		
Amount including VAT		
Equipment Amount (excluding VAT on sale)		
VAT amount (for equipment)		
Equipment Amount (including VAT on sale)		
TOTAL		
Preventer: Eng. Fahri Maho		Investor: National Agency for Water Supply and Sewerage

Fahri

Maho

Digitally signed
by Fahri Maho
Date: 2026.07.06

Note:

Due to the complicated electrical and mechanical systems of the KUZ, ITUN, SHKARKIMI NE DET and the difficulty of separating the separate items of the works and the interconnection between them, all prices and analyses presented in this estimate include separate items and combined items that include several parts and equipment. Bidders should view the items of the estimate closely with the project drawings to evaluate the items and systems in a complete manner to enable the full implementation of the project with all details and systems. Prices should be such as to include the systems in their operating function even when they are not specifically mentioned in the items of the estimate. Specific items and equipment that are not specifically mentioned in the estimate will be considered included in the other items offered and no additional items will be required. The Contractor is responsible for the implementation of the works in accordance with the technical specifications and details of the project drawings and the full functioning of the KUZ and ITUN Dhërmi System.

Designer: EBS Ltd.

Date: 22-06-2026

Object: "Wastewater Treatment Plant and KUZ system, Dhërmi" - KUZ DHERMI NETWORK

BILL OF QUANTITIES

NO.	CODE	TITLE OF WORKS.	Unit	QUANTITY
		1. NEW TECHNICAL ANALYSIS 4		
1	4.190	Asphalt cutting with a disc, on both sides.	ml	2475
		AMOUNT 1:		
		2. LAYER WORKS		
2	3.969	Scarification of existing asphalt layer with machinery	m2	12371
3	3.164/1 or	Filling with excavated material in the road body, spread and compacted with machinery	m3	15773
4	3.211	Coffee waste gravel layer t=20cm, spread out compressed by machinery	m2	12371
		AMOUNT 2:		
		3. EXCAVATION WORKS		
5	3.95/a	Excavation of soil with a 0.25 m³ chain excavator, in channels up to 2 m wide, soft soil, category III, with excavation in the ground	m3	15773
6	3.25/b	Excavation with wings in a forced section with width b > 1 m, h=1.5 m, soil and grass.	m3	1753
7	3.158/3 or	Soil transport by car up to 3.0 km	m3	7010
		AMOUNT 3:		
		4. EARTHWORKS		
8	2.47/year	Medium rock excavation with hammer and excavator STRAND	m3	10515
9	2.28a	Excavation of foundation and plinth soil with b=2m, excavator with 0.25m³ chain, unloading in car	m3	7010
		AMOUNT 4:		
		5. LAYER WORKS 2		
10	2.261	Sand layer	m3	15052
11	2.262/3	Concrete layer C 12/15	m3	412
		SUM 5:		
		6. OIL PIPELINE GAS		
12	4.60/1	PV steel pipes φ>200 h/insulated in the factory, for external water supply	tone	1
		AMOUNT 6:		
		7. MISCELLANEOUS, ELECTRICAL AND SIGNALING		
13	3.164/1 the	FV ribbed pipes HDPE SN8 d=315 mm	ml	1870
14	3.164/2 the	PV HDPE ribbed pipes SN8 d=400 mm	ml	825
15	3.164/3 the	PV HDPE ribbed pipes SN8 d=500 mm	ml	660
16	3.164/4 the	PV ribbed HDPE pipes SN8 d=600 mm	ml	5.3
		SUM 7:		
		8. WATER SUPPLY AND EXTERNAL SEWERAGE		
17	2.336	Drainage pit 80 x 80, h = 100 cm	PIECES	53
		SUM 8:		
		9. CONSTRUCTION OF WORKS OF ART + SEWERAGE		
18	3.642	Construction of concrete manhole 1.5x1.5 H=2 m+cast iron cover	PIECES	2
19	3.683	Construction of concrete manhole 2.x2.H= 5m, + cast iron cover	PIECES	8
		SUM 9:		
		10. TECHNICAL ANALYSIS		
20	3.226/7	Asphalt concrete layer with brown stone granule, 10cm, with MACHINES	m2	12371
		SUM 10:		
		11. OUT-OF-LISTS ANALYSIS		
21	An.P1	Supply - Installation of HDPE manholes with covers (to simple), height up to 1.5 m	PIECES	644
22	An.P2	Supply - Installation of HDPE manholes with covers (to simple), height 1.5-2.0 m	PIECES	199
23	An.P3	Supply - Installation of HDPE manholes with covers (to simple), height 2.0 - 2.5 m	PIECES	154
24	An.P4	Supply - Installation of HDPE manholes with covers (to simple), height 2.5-3.0 m	PIECES	74
25	An.P5	Supply - Installation of HDPE manholes with covers (to simple), height 3.0-3.5 m	PIECES	44
26	An.P6	Supply - Installation of HDPE manholes with covers (to simple), height 3.5-4.0 m	PIECES	14
27	An.177	Connection of houses and buildings to public sewers including HDPE pipe SN8 d= 160 mm (length 15 m) and all details according to the drawings	PIECES	890
28	An3.An 1	PV ribbed HDPE pipes SN8 d=200 mm	ml	14270
29	An3.An /t	FV ribbed pipes HDPE SN8 d=250 mm	ml	2780
		SUM 11:		
Analysis Amount				
Reserve Fund (3.0%)				
Analysis Amount + Reserve Fund (3.0%)				
VAT amount (20%)				
Amount including VAT				
TOTAL				

Preventer: Eng. Fahri Maho

Investor: National Agency of Water Supply and Sewerage

External analyses:

Supply - Installation of HDPE manholes with covers (simple), height up to 1.5 m - An.P1

1		Sp+p	oh	5.4
2		Social insurance	ALL	0.167
3		Machinery, tools and assembly equipment	oh	8
4		Well height - 1.5 m	PIECES	1
5		Transportation	t/km	8
6		Miscellaneous expenses 18%	ALL	0.18

Supply - Installation of HDPE manholes with covers (simple), height 1.5-2.0 m - An.P2

1		Sp+p	oh	5.7
2		Social security 16.7%	ALL	0.167
3		Machinery, tools and assembly equipment	oh	8
4		Transportation	t/km	8
5		Wells with a height of 1.5-2 m	PIECES	1
6		Miscellaneous expenses 18%	ALL	0.18

Supply - Installation of HDPE manholes with covers (simple), height 2.0 - 2.5 m - An.P3

1		Sp+p	oh	5.9
2		Social security 16.7%	ALL	0.167
3		Machinery, tools and assembly equipment	oh	8
4		Transportation	t/km	8
5		Wells with a height of 2.0-2.5 m	PIECES	1
6		Miscellaneous expenses 18%	ALL	0.18

Supply - Installation of HDPE manholes with covers (simple), height 2.5-3.0 m - An.P4

1		Sp+p	oh	6.1
2		Social security 16.7%	ALL	0.167
3		Machinery, tools and assembly equipment	oh	8
4		Transportation	t/km	8
5		Wells with a height of 2.5-3.0 m	PIECES	1
6		Miscellaneous expenses 18%	ALL	0.18

Supply - Installation of HDPE manholes with covers (simple), height 3.0-3.5 m - An.P5

1		Sp+p	oh	6.3
2		Social security 16.7%	ALL	0.167
3		Machinery, tools and assembly equipment	oh	8
4		Transportation	t/km	8
5		Wells with a height of 3.0-3.5 m	PIECES	1
6		Miscellaneous expenses 18%	ALL	0.18

Supply - Installation of HDPE manholes with covers (simple), height 3.5-4.0 m - An.P6

1		Sp+p	oh	6.7
2		Social security 16.7%	ALL	0.167
3		Machinery, tools and assembly equipment	oh	8
4		Transportation	t/km	8
5		Wells with a height of 3.5-4.0 m	PIECES	1
6		Miscellaneous expenses 18%	ALL	0.18

Connection of houses and buildings to public sewers including HDPE pipe SN8 d= 160 mm (length 15 m) and all details according to drawings ---

1		Specialist + worker	oh	3.482336
2		Social insurance	ALL	0.167
3		HDPE pipe SN8 d=160mm	ml	15
4		HDPE connector SN8 d=160mm	PIECES	1
5		Polypropylene bags	PIECES	1
6		Tube protection sand for 15 ml tube	m3	1.65
7		Miscellaneous expenses 5%	ALL	0.05

FV ribbed pipes HDPE SN8 d=200 mm --- An3.An1

1		Specialist + worker	oh	1.1
2		Social insurance	ALL	0.167
3		HDPE pipe SN8 d=200mm	ml	1
4		HDPE connector SN8 d=200mm	PIECES	1
5		Various materials 2 %	ALL	0.02

FV HDPE ribbed pipes SN8 d=250 mm --- An3.An/t

1		Specialist + worker	oh	1.1
2		Social insurance	ALL	0.167
3		HDPE pipe SN8 d=250mm	ml	1
4		HDPE connector SN8 d=250mm	PIECES	1
5		Various materials 2 %	ALL	0.02

Designer:Ob EBS Ltd.
ject: "Wastewater Treatment Plant and KUZ system, Dhërmi" - OPTION 2_KUZ PUMP STATIONS
Dhërmi

Date: 22-06-2026

BILL OF QUANTITIES

NO.	CODE	TITLE OF WORKS.	Unit	QUANTITY
1. LAYER WORKS				
1	3.969	Scarification of existing asphalt layer with machinery	m2	334
2	3.164/1 or	Filling with excavated material in the road body, spread and compacted with machinery	m3	1050
3	3.211	Coffee waste gravel layer t=20cm, spread out compressed by machinery	m2	288
AMOUNT 1:				
2. EXCAVATION WORKS				
4	3.95/a	Excavation of soil with a 0.25 m³ chain excavator, in channels up to 2 m wide, soft soil, category III, with excavation in the ground	m3	1050
5	3.25/b	Excavation with wings in a forced section with width b > 1 m, h=1.5 m, soil and grass.	m3	157
6	3.158/3 or	Soil transport by car up to 3.0 km	m3	661
AMOUNT 2:				
3. EARTHWORKS				
7	2.47/year	Medium rock excavation with hammer and excavator STRAND	m3	677
8	2.28a	Excavation of foundation and plinth soil with b-2m, excavator with 0.25m3 chain, unloading in car	m3	818
AMOUNT 3:				
4. CONCRETE AND REINFORCED CONCRETE WORKS				
9	3.245	Monolithic concrete structure C 25/30	m3	80
10	3.245/2	Monolithic concrete structure C 25/30 (Pilota) formwork removed from the value of the prize.	m3	52
11	3.246	Monolithic concrete structure with ballast C 20/25	m3	5.2
AMOUNT 4:				
5. CONCRETE IRON WORKS				
12	2.166/1 or	FV periodic concrete reinforcement Ø > 12 mm	tone	15.48
SUM 5:				
6. PROBE WORKS ON BRIDGES				
13	3.712	Drilling of pilot wells in gravel, Ø 600mm, depth up to 5m	m	180
AMOUNT 6:				
7. REINFORCEMENT WORKS - FORMWORK - CONCRETE IRON FOR TUNNELS				
14	3.771/e	Transport of concrete with concrete trucks 3.0 km	m3	132
SUM 7:				
8. CONSTRUCTION WORKS				
15	3.837	Temporary fencing with b/a columns + wire mesh	m2	160
SUM 8:				
9. PLUMBING AND HEATING INSTALLATIONS				
16	2.491/2 The	FV PE water supply pipe d=125mm, t = 8.6 mm, Mon 10	ml	175
17	2.491/1 m	FV PE water supply pipe d=315mm, t = 35.2 mm, Pn 20	ml	1350
SUM 9:				
10. LAYER WORKS 2				
18	2.261	Sand layer	m3	986
SUM 10:				
11. TECHNICAL ANALYSIS				
19	3.226/7	Asphalt concrete layer with brown stone granule, 10cm, with MACHINES	m2	288
SUM 11:				
12. UNLISTED EQUIPMENT				
20	Pj	Supply and Installation of Submersible Grinding Pump including electrical panel and related works (Q =44 l/s, H =120 m)	PIECES	4
21	Pj	FV Stainless steel pipe with SS flange Ø100 PN-16	ml	16
22	Pj	FV Stainless steel elbow with flange 90°Ø100 PN-16	PIECES	4
23	Pj	FV Non-return valve Ø100 PN-16	PIECES	4
24	Pj	FV Saracineska stainless steel with flange, Pn16 bar, Ø100	PIECES	4
25	Pj	FV Connecting piece Ø300 PN-16	PIECES	1
26	Pj	FV Stainless steel tee Ø300x300x100 PN-16	PIECES	1
27	Pj	FV Flanged Elbow 90°Ø200 PN-16	PIECES	2
28	Pj	FV Stainless steel pipe with SS flange Ø300 PN-16	m	4
29	Pj	FV Vent valve	PIECES	4
30	Pj	PV Fan	PIECES	1
31	Pj	PV Support for relocation and installation pumping	PIECES	1
32	Pj	FV Steel/Fiberglass Maintenance Ladder	ml	6
33	Pj	FV Stainless steel water deflector	PIECES	1
34	Pj	FV Manhole cover (class D360), (160x100) cm	PIECES	2
35	Pj	FV Manhole cover (class D360), (60x60)cm	PIECES	3
36	Pj	FV Blind flange Ø300 PN-16	PIECES	2
37	Pj	FV Saracineska stainless steel with flange, Pn16 bar, Ø100	PIECES	1
38	Pj	FV Support for water deflector in SP no.1	PIECES	1
39	Pj	FV Water hammer protection valve PN-16	PIECES	1
40	Pj	FV Tee Ø300x300x200 PN-16	PIECES	1
41	Pj	PV Modular Networks for Maintenance at SP No.1	PIECES	1

42	Pj	PV Control Panel for 4 pumps 85 kw with SCADA system	PIECES	1
43	Pj	FV Waste catch nets	tone	0.2
44	Pj	PV Flowmeter	PIECES	2
45	Pj	Supply and installation of submersible grinder pump including electrical panel and related works (Q =15 l/s, H =23.5 m)	PIECES	2
46	Pj	FV Stainless steel pipe with SS flange Ø125 PN-6	ml	3
47	Pj	FV Stainless steel elbow with flange 90°Ø125 PN-6	PIECES	2
48	Pj	FV Non-return valve Ø125 PN-6	PIECES	2
49	Pj	FV Stainless steel gate valve with flange, Pn6 bar, Ø125	PIECES	2
50	Pj	FV Connecting piece Ø125 PN-6	PIECES	1
51	Pj	FV Tee stainless steel Ø125x125x125 PN-6	PIECES	1
52	Pj	FV Flanged Elbow 90°Ø125 PN-6	PIECES	2
53	Pj	FV Stainless steel pipe with SS flange Ø125 PN-6	ml	4
54	Pj	FV Vent valve	PIECES	1
55	Pj	PV Fan	PIECES	1
56	Pj	PV Support for relocation and installation pumping	PIECES	1
57	Pj	FV Steel/Fiberglass Maintenance Ladder	ml	5
58	Pj	FV Stainless steel water deflector	PIECES	1
59	Pj	FV Blind flange Ø125 PN-6	PIECES	2
60	Pj	FV stainless steel gate valve with flange, Pn6 bar, Ø125	PIECES	1
61	Pj	FV Water hammer protection valve PN-6	PIECES	1
62	Pj	FV Tee Ø125x125x125 PN-6	PIECES	1
63	Pj	PV Modular Networks for Maintenance at SP No.2	PIECES	1
64	Pj	FV Support for water deflector in SP no.2	PIECES	1
65	Pj	PV Control panel for 2 pumps 1.5 kw with system SCADA	PIECES	1
66	Pj	FV Waste catch nets in SP no.2	tone	0.1
SUM 12:				
Analysis Amount				
Reserve Fund (3.0%)				
Analysis Amount + Reserve Fund (3.0%)				
VAT amount (20%)				
Amount including VAT				
Equipment Amount (excluding VAT on sale)				
VAT amount (for equipment)				
Equipment Amount (including VAT on sale)				
TOTAL				

Preventer: Eng. Fahri Maho

Investor: National Agency for Water Supply and Sewerage

Designer: EBS Ltd.
 Object: "Wastewater Treatment Plant and KUZ system, Dhërmi"-CIVIL WORKS IN DHERMI-
 PHASE 1

Date: 03-07-2026

BILL OF QUANTITIES

NO.	CODE	TITLE OF WORKS.	Unit	QUANTITY
		1. EXCAVATION WORKS		
1	3.107/b	Excavation of soil with a chain excavator, 1.0 m³, in trenches > 2 m wide, loose soil, category IV, with earthworks	m3	2108
2	3.119/b	Excavation of crushed rock with 0.5 m³ excavator, rock, in foundations >2 m wide, with discharge to the ground	m3	8932
3	3.25/b	Excavation with wings in a forced section with width b > 1 m, h=1.5 m, soil and grass.	m3	45
4	3.158/3 or	Soil transport by car up to 3.0 km	m3	90972
5	3.124/2 or	Hard rock excavation with a hammer and excavator chain3	m3	9890
6	3.122/b	Excavation of crushed rock with an excavator 0.5 m³, rock, in foundations >2 m wide, with unloading into the vehicle	m3	46885
7	3.110/b	Excavation of soil with a chain excavator, 1.0 m³, in trenches > 2 m wide, loose soil, category IV, with a shovel on the vehicle	m3	16590
		AMOUNT 1:		
		2. EARTHWORKS		
8	2.47/year	Medium rock excavation with hammer and excavator STRAND	m3	17085
9	2.37/2b	Transport of construction materials, soil by car up to 7.0 km	m3	1130
10	2.29	Excavation of foundations and plinths with a depth of >2m, excavator with 0.5m3 chain, ground discharge	m3	522
		AMOUNT 2:		
		3. CONSTRUCTION OF WORKS OF ART + SEWERAGE		
11	3.353	Filling with previously excavated rock	m3	10540
12	3.396/1	Gravel filling behind walls	m3	80
		AMOUNT 3:		
		4. CONCRETE AND REINFORCED CONCRETE WORKS		
13	3.245	Monolithic concrete structure C 25/30	m3	2353.4
14	3.244	Monolithic concrete structure C 20/25	m3	14.25
15	3.248	Monolithic concrete structure with ballast C 30/37	m3	1572.38
		AMOUNT 4:		
		5. CONCRETE IRON WORKS		
16	2.166	FV periodic concrete reinforcement Ø 6 - 10 mm	tone	64.61
17	2.166/1 or	FV periodic concrete reinforcement Ø > 12 mm	tone	243.1
		SUM 5:		
		6. REINFORCEMENT WORKS - FORMWORK - CONCRETE IRON FOR TUNNELS		
18	3,771/e	Transport of concrete with concrete trucks 3.0 km	m3	1320
		AMOUNT 6:		
		7. TECHNICAL ANALYSIS		
19	3.226/3	Asphalt concrete layer with brown stone granule, 6cm, with MACHINES	m2	2975
20	3.222/6	Binder layer with brown stone granule, 10cm, with mac.	m2	2975
		SUM 7:		
		8. LAYER WORKS		
21	3.211	Coffee waste gravel layer t=20cm, spread out compressed by machinery	m2	2975
22	3.207/1	Gravel layer t=10cm, spread and compacted by machine	m2	630
23	3.212/c	Stabilizing layer t=15cm	m2	804.33
		SUM 8:		
		9. PRODUCTION OF BUILDING MATERIALS		
24	1.29/p	Concrete C-16/20 (With gravel)	m3	390
25	1.125/p	Concrete curb 25x25cm	m	581
		SUM 9:		
		10. MISCELLANEOUS, ELECTRICAL AND SIGNALING		
26	3.166	FV waterstop type RT 2000 10*20 & h/insulator type rapid cement in the joint of the b/a frames.	ml	770.4
		SUM 10:		
		11. PAINT WORKS		
27	2,450	Formwork for beam b/a	m2	1386
28	2,447	Formwork for walls b/a	m2	4019.9
29	2,454	Formwork for soles b/a	m2	864.6
30	2,422	10 cm wall insulation with platerme	m2	151
		SUM 11:		
		12. BRICK MASONRY WORKS		
31	2.76	Brick wall with holes, t=20cm	m3	194

32	2.86.	Brick wall with 6 holes, t=12cm h~3m, ll perz M 15	m3	22
SUM 12:				
13. WATERPROOFING AND ROOFING WORKS				
33	2.198	Waterproofing with bitumen emulsion and 3 k tar	m2	624
SUM 13:				
14. CONSTRUCTION WORKS				
34	3.837	Temporary fencing with b/a columns + wire mesh	m2	900
SUM 14:				
15. D. SIGNALS AND ADDITIONAL EQUIPMENT. SPEED SLOWERS				
35	3.961	FV Decorative Tree Saplings	PIECES	120
SUM 15:				
16. MISCELLANEOUS WORKS				
36	3.643/c	FV And humus	m3	276
SUM 16:				
17. OUT-OF-LISTS ANALYSIS				
37	An.177	FV Construction of steel beams for cranes	kg	3000
38	An.178	FV Crane beams	kg	1115
39	An.179	Supply and installation of steel grating platform stainless steel SSt 316	m2	7
40	An.180	Special works of the pumping station at the entrance	m2	2710
41	An.181	Coating the bottom of structures with mortar 25 mm cement-sand and a layer of bituminous paint	m2	648
42	An.182	Supply - installation of SST 316 stainless steel railings	ml	148,8
43	An.183	Carrying out the activated sludge chamber test (the price unit should be given per 1 m3 of water volume)	m3	4875
44	An.184	Supply and installation of SST stainless steel stairs 316	ml	11.2
45	An.185	Construction of a 5 cm thick concrete slab layer on the sidewalks and side walkways of the building (including filling with layers of crushed rock material with height 15 cm)	m2	93.6
46	An.186	FV Metal formwork for curved wall shapes	m2	521.5
47	An.187	Painting for steel structures (4 coats of epoxy and 1 coat of silicone alkyd, minimum total thickness 200 micron)	m2	7
48	An.188	Supply and installation of platform grates made of stainless steel material SST 316	m2	7.3
49	An.189	Construction of pre-prepared channels on wide roads 30 cm	m	581
50	An.190	Construction of rainwater wells, including grates for rainwater drainage on the road	PIECES	20
51	An.191	FV Construction of the main entrance gate of ITUN	PIECES	1
52	An.192	Construction of the connecting beam and lintel (including concrete, iron and molds)	m	35
SUM 17:				
Analysis Amount				
Reserve Fund (3.0%)				
Analysis Amount + Reserve Fund (3.0%)				
VAT amount (20%)				
Amount including VAT				
TOTAL				

Preventer: Eng. Fahri Maho

Investor: National Agency for Water Supply and Sewerage

External analyses:

FV Construction of steel beams for cranes --- An.177

1		Specialist + worker	oh	0.65
2		Social insurance	ALL	0.167
3		Supply of steel beams for cranes	kg	1
4		Miscellaneous expenses 5%	ALL	0.05

FV Crane beams --- An.178

1		Specialist + worker	oh	0.24
2		Social insurance	ALL	0.167
3		Crane beams supply	kg	1
4		Miscellaneous expenses 5%	ALL	0.05

Supply and installation of platform with stainless steel grating SSt 316 --- An.179

1		Specialist + worker	oh	5.51
2		Social insurance	ALL	0.167
3		Supply of platform with stainless steel grating SSt 316	m2	1
4		Miscellaneous expenses 5%	ALL	0.05

Special works of the pumping station at the entrance --- An.180

1		Specialist + worker	oh	5.5
2		Social insurance	ALL	0.167
3		Special works of the pumping station at the entrance	m2	1
4		Miscellaneous expenses 5%	ALL	0.05

Coating the lower part of the structures with 25 mm cement-sand mortar and a layer of bituminous paint - An.181

1		Specialist + worker	oh	1.3
2		Social insurance	ALL	0.167
3		Coating the bottom of structures with mortar cement-sand 25 mm	m2	1
4		Bituminous paint layer	m2	1
5		Miscellaneous expenses 5%	ALL	0.05

Supply - installation of stainless steel railings SST 316 --- An.182

1		Specialist + worker	oh	2.2
2		Social insurance	ALL	0.167
3		Supply of SST 316 stainless steel handrails	ml	1
4		Miscellaneous expenses 5%	ALL	0.05

Implementation of the activated sludge chamber test (the price unit should be given per 1 m3 of water volume) --- An.183

1		Specialist + worker	oh	0.1
2		Social insurance	ALL	0.167
3		Sludge chamber test	m3	1
4		Miscellaneous expenses 5%	ALL	0.05

Supply and installation of stainless steel stairs SST 316 --- An.184

1		Specialist + worker	oh	6.5
2		Social insurance	ALL	0.167
3		Supply of SST 316 stainless steel stairs	ml	1
4		Miscellaneous expenses 5%	ALL	0.05

Construction of a 5 cm thick concrete slab layer on the sidewalks and side walkways of the building (including filling with layers of crushed stone material)

1		Specialist + worker	oh	1.2
2		Social insurance	ALL	0.167
3			m2	1
4		Miscellaneous expenses 5%	ALL	0.05

FV Metal formwork for curved wall shapes --- An.186

1		Specialist + worker	oh	3.31
2		Social insurance	ALL	0.167
3			m2	1
4		Miscellaneous expenses 5%	ALL	0.05

Painting for steel structures (4 coats of epoxy and 1 coat of silicone alkyd, minimum total thickness 200 microns) --- An.187

1		Specialist + worker	oh	1.8
2		Social insurance	ALL	0.167
3		Supply 4 layers of epoxy, minimum total thickness 200 micron	m2	1
4			m2	1
5		Miscellaneous expenses 5%	ALL	0.05

Supply and installation of platform grates made of stainless steel SST 316 --- An.188

1		Specialist + worker	oh	15
2		Social insurance	ALL	0.167
3			m2	1
4		Miscellaneous expenses 5%	ALL	0.05

Construction of pre-prepared channels on the road with a width of 30 cm --- An.189

1		Specialist + worker	oh	0.2
2		Specialist + worker	ALL	0.167
3			m	1
4		Miscellaneous expenses 5%	ALL	0.05

Construction of rainwater culverts, including rainwater drainage grates on the road - An.190

1		Specialist + worker	oh	3.5
2		Insurance Socially	ALL	0.167
3			PIECES	1
4		Miscellaneous expenses 5%	ALL	0.05

FV Construction of the main entrance gate of ITUN --- An.191

1		Specialist + worker	oh	44
2		Social insurance	ALL	0.167
3		Supply of the main entrance gate of ITUN	PIECES	1
4		Miscellaneous expenses 5%	ALL	0.05

Designer: EBS Ltd.
 Object: "Wastewater Treatment Plant and KUZ system, Dhërmi"-CIVIL WORKS-PHASE 2

Date: 22-06-2026

BILL OF QUANTITIES

NO.	CODE	TITLE OF WORKS.	Unit	QUANTITY
1. CONCRETE AND REINFORCED CONCRETE WORKS				
1	3.245	Monolithic concrete structure C 25/30	m3	13
2	3.244	Monolithic concrete structure C 20/25	m3	13
3	3.248	Monolithic concrete structure with ballast C 30/37	m3	500.32
AMOUNT 1:				
2. MISCELLANEOUS, ELECTRICAL AND SIGNALLING				
4	3.166	FV waterstop type RT 2000 10*20 & h/insulator type rapid cement in the joint of the b/a frames.	ml	218.6
AMOUNT 2:				
3. EXCAVATION WORKS				
5	3.124/2 or	Hard rock excavation with a hammer and excavator chain3	m3	1524
AMOUNT 3:				
4. EARTHWORKS				
6	2.37/2b	Transport of construction materials, soil by car up to 7.0 km	m3	546
AMOUNT 4:				
5. CONSTRUCTION OF WORKS OF ART + SEWERAGE				
7	3.353	Filling with previously excavated rock	m3	667.8
SUM 5:				
6. PRODUCTION OF BUILDING MATERIALS				
8	1.29/p	Concrete C-16/20 (With gravel)	m3	113
AMOUNT 6:				
7. WATERPROOFING AND ROOFING WORKS				
9	2.198	Waterproofing with bitumen emulsion and 3 k tar	m2	156
SUM 7:				
8. PAINT WORKS				
10	2.450	Formwork for beam b/a	m2	50
11	2.447	Formwork for walls b/a	m2	522.5
12	2.454	Formwork for soles b/a	m2	48.4
SUM 8:				
9. CONCRETE IRON WORKS				
13	2.166/1 or	FV periodic concrete reinforcement Ø > 12 mm	tone	48.44
14	2.166	FV periodic concrete reinforcement Ø 6 - 10 mm	tone	0.22
SUM 9:				
10. OUT-OF-LISTS ANALYSIS				
15	An.179	Supply and installation of steel grating platform stainless steel SSr 316	m2	7
16	An.180	Special works of the pumping station at the entrance	m2	254.84
17	An.181	Coating the bottom of structures with mortar 25 mm cement-sand and a layer of bituminous paint	m2	162
18	An.182	Supply - installation of SST 316 stainless steel railings	ml	37.2
19	An.183	Carrying out the activated sludge chamber test (the price unit should be given per 1 m3 of water volume)	m3	1703
20	An.184	Supply and installation of SST stainless steel stairs 316	ml	0.8
21	An.185	Construction of a 5 cm thick concrete slab layer on the sidewalks and side walkways of the building (including filling with layers of crushed rock material with height 15 cm)	m2	23.4
22	An.186	FV Metal formwork for curved wall shapes	m2	521.5
23	An.187	Painting for steel structures (4 coats of epoxy and 1 coat of silicone alkyd, minimum total thickness 200 micron)	m2	3
SUM 10:				
Analysis Amount				
Reserve Fund (3.0%)				
Analysis Amount + Reserve Fund (3.0%)				
VAT amount (20%)				
Amount including VAT				
TOTAL				

Preventer: Eng. Fahri Maho

Investor: National Agency for Water Supply and Sewerage

External analyses:

Supply and installation of platform with stainless steel grating SSt 316 --- An.179

1		Specialist + worker	oh	5.51
2		Social insurance	ALL	0.167
3		Supply of platform with stainless steel grating SSt 316	m2	1
4		Miscellaneous expenses 5%	ALL	0.05

Special works of the pumping station at the entrance --- An.180

1		Specialist + worker	oh	5.5
2		Social insurance	ALL	0.167
3		Special works of the pumping station at the entrance	m2	1
4		Miscellaneous expenses 5%	ALL	0.05

Coating the lower part of the structures with 25 mm cement-sand mortar and a layer of bituminous paint - An.181

1		Specialist + worker	oh	1.3
2		Social insurance	ALL	0.167
3		Coating the bottom of structures with mortar cement-sand 25 mm	m2	1
4		Bituminous paint layer	m2	1
5		Miscellaneous expenses 5%	ALL	0.05

Supply - installation of stainless steel railings SST 316 --- An.182

1		Specialist + worker	oh	2.2
2		Social insurance	ALL	0.167
3		Supply of SST 316 stainless steel handrails	ml	1
4		Miscellaneous expenses 5%	ALL	0.05

Implementation of the activated sludge chamber test (the price unit should be given per 1 m3 of water volume) --- An.183

1		Specialist + worker	oh	0.1
2		Social insurance	ALL	0.167
3		Sludge chamber test	m3	1
4		Miscellaneous expenses 5%	ALL	0.05

Supply and installation of stainless steel stairs SST 316 --- An.184

1		Specialist + worker	oh	6.5
2		Social insurance	ALL	0.167
3		Supply of SST 316 stainless steel stairs	ml	1
4		Miscellaneous expenses 5%	ALL	0.05

Construction of a 5 cm thick concrete slab layer on the sidewalks and side walkways of the building (including filling with layers of crushed stone material)

1		Specialist + worker	oh	1.2
2		Social insurance	ALL	0.167
3		Supply of 5 cm thick concrete slabs on the sidewalks and side walkways of the building (including filling with crushed rock material layers with height 15 cm)	m2	1
4		Miscellaneous expenses 5%	ALL	0.05

FV Metal formwork for curved wall shapes --- An.186

1		Specialist + worker	oh	3.31
2		Social insurance	ALL	0.167
3		FV Metal formwork for curved wall shapes	m2	1
4		Miscellaneous expenses 5%	ALL	0.05

Painting for steel structures (4 coats of epoxy and 1 coat of silicone alkyd, minimum total thickness 200 microns) --- An.187

1		Specialist + worker	oh	1.8
2		Social insurance	ALL	0.167
3		Supply 4 layers of epoxy, minimum total thickness 200 micron	m2	1
4		1 coat of silicone alkyd, minimum total thickness 200 micron	m2	1
5		Miscellaneous expenses 5%	ALL	0.05

Designer: EBS Ltd.
 Object: "Wastewater Treatment Plant and KUZ system, Dhërmi" - MECHANICAL INSTALLATIONS - PHASE 1

Date: 22-06-2026

BILL OF QUANTITIES

NO.	CODE	TITLE OF WORKS.	Unit	QUANTITY
		1. OUTSIDE LISTS ANALYSIS		
1	An.1	Stainless steel gate at the entrance of the thick grate according to project dimensions	PIECES	1
2	An.2	Automatic coarse grater	PIECES	1
3	An.3	Container for coarse waste	PIECES	1
4	An.4	Stainless steel gate for the wastewater collection station septic tanks	PIECES	1
5	An.5	Septic water collection and treatment station	PIECES	1
6	An.6	Container for septic tank collection station	PIECES	1
7	An.7	Submerged mixer in the water collection chamber septic	PIECES	1
8	An.8	Compact pretreatment unit 1 - fine screen and waiting 1	PIECES	1
9	An.9	Grease pump 3 (spare in stock)	PIECES	1
10	An.10	Sand pump 3 (spare in warehouse)	PIECES	1
11	An.11	Pretreatment container 1.1 -	PIECES	1
12	An.12	Mobile crane for the pretreatment building	PIECES	1
13	An.13	Ventilation fan for the pretreatment building	PIECES	1
14	An.14	Valles	PIECES	1
15	An.15	Stainless steel door distribution room 1.1	PIECES	1
16	An.16	Submersible mixer, aeration chambers 2.1 and 2.2	PIECES	2
17	An.17	Air diffuser in ventilation rooms -	PIECES	1
18	An.18	Valles	PIECES	1
19	An.19	Air blower system for ventilation room 1	PIECES	1
20	An.20	Ventilation fan for blower building 1	PIECES	1
21	An.21	AST monorail crane for the blower room	PIECES	1
22	An.22	Valles	PIECES	1
23	An.23	UV module channel entry port	PIECES	2
24	An.24	Compressor, for UV unit	PIECES	1
25	An.25	UV disinfection unit	PIECES	1
26	An.26	Lifting equipment for UV unit	PIECES	1
27	An.27	Service water booster pump, 1	PIECES	1
28	An.28	Monorail crane (manual) for water service station	PIECES	1
29	An.29	Closed container in UV disinfection unit	PIECES	1
30	An.30	Automatic backwash filter	PIECES	1
31	An.31	Ventilation fan for service water station, 1&2	PIECES	3
32	An.32	Activated sludge return pump, 1	PIECES	1
33	An.33	Activated sludge return pump, 2	PIECES	1
34	An.34	Pump for excess activated sludge, 1	PIECES	1
35	An.35	Monorail crane for return and return sludge pumps excess	PIECES	1
36	An.36	Ventilation fan for sludge pumping station returned and abundant, 1	PIECES	1
37	An.37	Sump pump 1 piece -	PIECES	1
38	An.38	Valles	PIECES	1
39	An.39	Mixer for thickened sludge storage tank	PIECES	1
40	An.40	Motorized discharge valve for sludge tank thick, 1	PIECES	1
41	An.41	Motorized discharge valve for sludge tank thick, 2	PIECES	1
42	An.42	Compressor, sludge treatment, 1	PIECES	1
43	An.43	Sludge dehydration feed pump, 1	PIECES	1
44	An.44	Static mixer for mixing sludge and polymer	PIECES	1
45	An.45	Screw press machine for sludge dehydration	PIECES	1
46	An.46	Screw conveyor for dewatered sludge	PIECES	1
47	An.47	Compressor, sludge treatment, 1	PIECES	1
48	An.48	Polyelectrolyte preparation tank	PIECES	1
49	An.49	Polyelectrolyte dosing pump for dehydration, 1	PIECES	1
50	An.50	Static mixing, polyelectrolyte solution for dehydration + post-digestive system	PIECES	1
51	An.51	Valles	PIECES	1
52	An.52	Stainless steel door, distribution room 2.1	PIECES	1
53	An.53	Scraper bridge in the sedimentation chamber, 1	PIECES	1
54	An.54	Floating sludge pump on the bridge, 1	PIECES	2
55	An.55	Valles	PIECES	1
56	An.56	Stainless steel gate at the entrance to the treated water tank	PIECES	2
57	An.57	Mechanical installations in the warehouse and office of the Plant	PIECES	1
58	An.58	Exhaust fan, 1	PIECES	1
59	An.59	KUN pipeline from the fence to the entrance to ITUN	ml	199
60	An.60	The pipeline from the septic tank to the sewer grater	ml	8.25
61	An.61	Pipeline from pre-treatment to the process room biological	ml	14

62	An.62	Pipes from the biological process room to secondary sedimentation,1	ml	29.2
63	An.63	Connecting pipes between the sedimentation chamber secondary 1 to 2	ml	11.5
64	An.64	Pipes from the UV disinfection unit to the well DISMISSAL	ml	6
65	An.65	The pipeline from the discharge well to the final well discharge into the sea	ml	49.8
66	An.66	Pipelines from secondary sedimentation to the station pumping of excess sludge	ml	12.5
67	An.67	Pipelines from secondary sedimentation chambers 1, 2 to sludge pumping station	ml	11.9
68	An.68	Pipelines from the sludge pumping station returned to biological process room	ml	28.9
69	An.69	Pipeline from the foam pit to the sludge tank	ml	192.8
70	An.70	Pipelines from excess sludge pumps on site-sludge disposal	ml	220.6
71	An.71	Pipelines from the sludge tank to the sludge building	ml	11
72	An.72	ITUN wastewater pipeline	ml	27
73	An.73	Service water pipes DN32	ml	100
74	An.74	The pipeline from the UV backwash unit to the sump foam	ml	32
75	An.75	Air line generated by biological processes	ml	23.5
76	An.76	Air line generated by biological processes	ml	44.9
77	An.77	Other small and auxiliary pipelines	ml	1
			AMOUNT 1:	
			2. UNLISTED EQUIPMENT	
78	Pj	Stainless steel doors according to dimensions and specifications PROJECT	PIECES	1
79	Pj	Motorized thick grate according to the project and specification	PIECES	1
80	Pj	Supply of containers for coarse waste	PIECES	1
81	Pj	Supply of stainless steel gates for the septic tank water collection station according to the detailed project and specification	PIECES	1
82	Pj	Septic tank water pump (according to project)	PIECES	1
83	Pj	Supply of containers for septic tank storage	PIECES	1
84	Pj	Submersible mixer in septic tank	PIECES	1
85	Pj	Fine grater and press 1 (compact)	PIECES	1
86	Pj	Sand screw conveyor 1	PIECES	1
87	Pj	Grease collection scraper 1	PIECES	1
88	Pj	Davit crane for the mixer in the septic tank	PIECES	1
89	Pj	Septic tank drain combined with press	PIECES	1
90	Pj	Supply of 1 grease pump according to project specifications (part of the compact unit)	PIECES	1
91	Pj	Supply of 3 grease pumps according to project specifications	PIECES	1
92	Pj	Sand pump 1 (part of compact unit)	PIECES	1
93	Pj	Sand pump 3	PIECES	1
94	Pj	Pretreatment container for fine gravel waste	PIECES	1
95	Pj	Supply of mobile crane for the pretreatment building	PIECES	1
96	Pj	Ventilation fan for pretreatment building 1 and 2	PIECES	1
97	Pj	Supply of valves according to the number and specifications of PROJECT	KIT	1
98	Pj	Supply of stainless steel doors for distribution room 1.1 and 1.2 according to the project and specifications	PIECES	2
99	Pj	Submerged mixing supply in ventilation chambers	PIECES	2
100	Pj	Air diffusers ventilation room 1.1	PIECES	1
101	Pj	Supply of valves according to the number and specifications of PROJECT	PIECES	1
102	Pj	Supply of air blower according to the room design blower	PIECES	1
103	Pj	Supply of ventilation fan for blower building 1	PIECES	1
104	Pj	Supply of a crane with a monorail for the building of blower	PIECES	1
105	Pj	Supply of valves according to the number and specifications of PROJECT	PIECES	1
106	Pj	Supply of input ports to the UV module channel according to project specifications	PIECES	2
107	Pj	Compressor supply according to project specifications	PIECES	1
108	Pj	Supply of UV disinfection unit	PIECES	1
109	Pj	Supply of lifting equipment for the UV unit according to project specifications	PIECES	1
110	Pj	Supply of booster pumps for service water, according to project specifications and system accessories	PIECES	1
111	Pj	Supply of Monorail Crane (manual) for the water station service according to project specifications	PIECES	1
112	Pj	Supply of sealed container to UV disinfection unit according to project specifications	PIECES	1
113	Pj	Supply of automatic backwash filter according to project specifications	PIECES	1
114	Pj	Supply of ventilation fan for the water station service, 1 according to project specifications	PIECES	3
115	Pj	Activated sludge return pump according to project specifications	PIECES	2
116	Pj	Pump supply for excess activated sludge, 1 according to project specifications	PIECES	1
117	Pj	Supply of monorail crane for return and excess sludge pumps according to project specifications	PIECES	1
118	Pj	Supply Ventilation fan for the return and excess sludge pumping station, 1 according to specifications PROJECT	PIECES	1
119	Pj	Supply of 1 waste pit pump according to project specifications	PIECES	1

120	Pj	Supply of valves in the sludge return system and excessive according to the technological scheme of the project	PIECES	1
121	Pj	Supply of valves in the sludge return system and excessive according to the technological scheme of the project	PIECES	1
122	Pj	Supply Motorized discharge valve for thick sludge tank 1, according to the project technological scheme	PIECES	1
123	Pj	Supply Motorized discharge valve for thick sludge tank 2, according to the project technological scheme	PIECES	1
124	Pj	Sludge treatment compressor supply, according to project specifications	PIECES	1
125	Pj	Sludge dehydration feed pump supply, 1, according to project specifications	PIECES	1
126	Pj	Supply Static mixer for mixing sludge and polymer, according to project specifications	PIECES	1
127	Pj	Supply of screw press machinery for dehydration of sludge, according to project specifications	PIECES	1
128	Pj	Screw conveyor supply for dehydrated sludge, according to project specifications	PIECES	1
129	Pj	Supply of sludge cake container, 1, according to project specifications	PIECES	1
130	Pj	Supply of polyelectrolyte preparation tanks, according to project specifications	PIECES	1
131	Pj	Supply of polyelectrolyte dosing pump for dehydration, 1, according to project specifications	PIECES	1
132	Pj	Supply Static mixing, polyelectrolyte dissolution for dehydration + post-digestion system, according to project specifications	PIECES	1
133	Pj	Supply of valves for the sludge dehydration system, according to project specifications	PIECES	1
134	Pj	Stainless steel gate supply	PIECES	1
135	Pj	Scraper bridge supply	PIECES	1
136	Pj	Supply to the floating sludge pump on the bridge, according to project specifications	PIECES	2
137	Pj	Supply of valves for the secondary sedimentation system, according to project specifications	PIECES	1
138	Pj	Supply of stainless steel gates at the entrance to the water tank treated, according to project specifications	PIECES	2
139	Pj	Supply of exhaust fan, 1 (biofilter)	PIECES	1
140	Pj	Supply of Corrugated pipe OD 400 mm (KUN pipe from the fence at the entrance to ITUN)	ml	199
141	Pj	Corrugated pipe supply OD400mm (Pipe from septic tank in the sewer)	ml	8.25
142	Pj	Supply of stainless steel piping according to specifications project (Pipeline from pre-treatment to biological process room)	ml	14
143	Pj	Supply of stainless steel pipes according to specifications project (Pipelines from the biological process chamber to the secondary sedimentation, 1)	ml	29.2
144	Pj	Supply of stainless steel pipes according to specifications project (Connecting pipes between secondary sedimentation chamber 1 and 2)	ml	11.5
145	Pj	Supply of OD400 corrugated pipe according to the project (Pipes from the UV disinfection unit to the discharge well)	ml	6
146	Pj	Supply of OD350 corrugated pipe according to the project (Pipeline from the discharge well to the final discharge well into the sea)	ml	49.8
147	Pj	Supply of pipeline for sludge transport according to project and its preparation for installation (Pipes from secondary sedimentation to the pumping station for returned and excess sludge)	ml	12.5
148	Pj	Supply of pipeline for sludge transport according to project and its preparation for installation (Pipes from secondary sedimentation chambers 1, 2 to the sludge pumping station)	ml	11.9
149	Pj	Supply of pipeline for sludge transport according to project and its preparation for installation (Piping from the sludge pumping station back to the biological process chamber)	ml	28.9
150	Pj	Supply of OD 250 pipeline and preparation for installation (Pipeline from foam pit to sludge tank)	ml	192.8
151	Pj	Supply of OD 200 pipeline and preparation for installation (Pipelines from excess sludge pumps on site-sludge disposal)	ml	220.6
152	Pj	Supply of OD 200 pipeline and preparation for installation (Piping from sludge tank to sludge building)	ml	11
153	Pj	Supply of OD 260 pipeline and preparation for installation (ITUN wastewater pipeline)	ml	27
154	Pj	Drinking water pipeline supply DN80	ml	100
155	Pj	Drinking water supply pipeline DN32	ml	32
156	Pj	Supply of process-generated air pipeline biological	ml	23.5
157	Pj	Supply of air pipeline with pressure generated by biological processes	ml	1
158	Pj	Supply of stainless steel pipes and special installation parts (bras, sleeves, welding electrodes, etc.)	kg	410
159	Pj	Supply of HDPE pipes and special parts	kg	350
AMOUNT 2:				
Analysis Amount				
Reserve Fund (3.0%)				
Analysis Amount + Reserve Fund (3.0%)				
VAT amount (20%)				
Amount including VAT				
Equipment Amount (excluding VAT on sale)				
VAT amount (for equipment)				
Equipment Amount (including VAT on sale)				
TOTAL				

External analyses:

Stainless steel gate at the entrance of the thick grate according to the project dimensions --- An.1

1		Sp + p	oh	23
2		Social security 16.7%	ALL	8443.76
3		Miscellaneous expenses 5%	ALL	224513.67

Automatic thick grater --- An.2

1		Sp + p	oh	28
2		Social security 16.7%	ALL	10279.36
3		Miscellaneous expenses 5%	ALL	1657098.23

Container for coarse waste --- An.3

1		Sp + p	oh	2
2		Social security 16.7%	ALL	734.24
3		Miscellaneous expenses 5%	ALL	259070.95

Stainless steel gate for septic tank water collection station --- An.4

1		Sp + p	oh	28
2		Social security 16.7%	ALL	10279.36
3		Miscellaneous expenses 5%	ALL	332158.76

Septic water collection and treatment station - An.5

1		Sp + p	oh	68
2		Social security 16.7%	ALL	24964.16
3		Miscellaneous expenses 5%	ALL	3646588.26

Container for septic water collection station - An.6

1		Sp + p	oh	2
2		Social security 16.7%	ALL	734.24
3		Miscellaneous expenses 5%	ALL	133970.06

Submerged mixer in the septic tank --- An.7

1		Sp + p	oh	26
2		Social security 16.7%	ALL	9545.12
3		Miscellaneous expenses 5%	ALL	470424.37

Compact pretreatment unit 1 - fine grate and press 1 - An.8

1		Sp + p	oh	240
2		Social security 16.7%	ALL	88108.8
3		Miscellaneous expenses 5%	ALL	12378263.84

Grease pump 3 (spare in stock) --- An.9

1		Sp + p	oh	8
2		Social security 16.7%	ALL	2936.96
3		Miscellaneous expenses 5%	ALL	152667.98

Sand pump 3 (reserve in warehouse) --- An.10

1		Sp + p	oh	8
2		Social security 16.7%	ALL	2936.96
3		Miscellaneous expenses 5%	ALL	152667.98

Pretreatment container 1.1 --- An.11

1		Sp + p	oh	2
2		Social security 16.7%	ALL	734.24
3		Miscellaneous expenses 5%	ALL	259070.95

Mobile crane for the pre-treatment building --- An.12

1		Sp + p	oh	62
2		Social security 16.7%	ALL	22761.44
3		Miscellaneous expenses 5%	ALL	1950085.66

Ventilation fan for the pretreatment building --- An.13

1		Sp + p	oh	12
2		Social security 16.7%	ALL	4405.44
3		Miscellaneous expenses 5%	ALL	88727.56

Valve --- An.14

1		Sp + p	oh	64
2		Social security 16.7%	ALL	23495.68
3		Miscellaneous expenses 5%	ALL	1002134.82

Stainless steel door distribution room 1.1 --- An.15

1		Sp + p	oh	28
2		Social security 16.7%	ALL	10279.36
3		Miscellaneous expenses 5%	ALL	266218.48

Submersible mixer, aeration chambers 2.1 and 2.2 --- An.16

1		Sp + p	oh	22
2		Social security 16.7%	ALL	8076.64
3		Miscellaneous expenses 5%	ALL	480934.61

Air diffuser in ventilation chambers - --- An.17

1		Sp + p	oh	38
2		Social security 16.7%	ALL	13950.56
3		Miscellaneous expenses 5%	ALL	3103542.57

Valve --- An.18

1		Sp + p	oh	64
2		Social security 16.7%	ALL	23495.68
3		Miscellaneous expenses 5%	ALL	242651.36

Air blower system for ventilation room 1 --- An.19

1		Sp + p	oh	44
2		Social security 16.7%	ALL	16153.28
3		Miscellaneous expenses 5%	ALL	1724581.088

Ventilation fan for blower building 1 --- An.20

1		Sp + p	oh	12
2		Social security 16.7%	ALL	4405.44
3		Miscellaneous expenses 5%	ALL	88727.56

AST monorail crane for blower room --- An.21

1		Sp + p	oh	36
2		Social security 16.7%	ALL	13216.32
3		Miscellaneous expenses 5%	ALL	765133.44

Valve --- An.22

1		Sp + p	oh	88
2		Social security 16.7%	ALL	32306.56
3		Miscellaneous expenses 5%	ALL	501300.989

UV module channel entry port --- An.23

1		Sp + p	oh	88
2		Social security 16.7%	ALL	32306.56
3		Miscellaneous expenses 5%	ALL	271196.07

Compressor, for UV unit --- An.24

1		Sp + p	oh	3
2		Social security 16.7%	ALL	1101.36
3		Miscellaneous expenses 5%	ALL	76822.73

UV disinfection unit --- An.25

1		Sp + p	oh	88
2		Social security 16.7%	ALL	32306.56
3		Miscellaneous expenses 5%	ALL	8978379.28

Lifting equipment for UV unit --- An.26

1		Sp + p	oh	12
2		Social security 16.7%	ALL	4405.44
3		Miscellaneous expenses 5%	ALL	286225.54

Service water booster pump, 1 --- An.27

1		Sp + p	oh	88
2		Social security 16.7%	ALL	32306.56
3		Miscellaneous expenses 5%	ALL	1062721.49

Monorail crane (manual) for water service station --- An.28

1		Sp + p	oh	88
2		Social security 16.7%	ALL	32306.56
3		Miscellaneous expenses 5%	ALL	327991.87

Closed container in UV disinfection unit --- An.29

1		Sp + p	oh	88
2		Social security 16.7%	ALL	32306.56
3		Miscellaneous expenses 5%	ALL	868613.339

Automatic backwash filter --- An.30

1		Sp + p	oh	88
2		Social security 16.7%	ALL	32306.56
3		Miscellaneous expenses 5%	ALL	795409.14

Ventilation fan for service water station, 1&2 --- An.31

1		Sp + p	oh	12
2		Social security 16.7%	ALL	4405.44
3		Miscellaneous expenses 5%	ALL	88727.56

Activated sludge return pump, 1 --- An.32

1		Sp + p	oh	12
2		Social security 16.7%	ALL	4405.44
3		Miscellaneous expenses 5%	ALL	489050.4

Activated sludge return pump, 2 --- An.33

1		Sp + p	oh	12
2		Social security 16.7%	ALL	4405.44
3		Miscellaneous expenses 5%	ALL	489050.4

Pump for excess activated sludge, 1 --- An.34

1		Sp + p	oh	12
2		Social security 16.7%	ALL	4405.44
3		Miscellaneous expenses 5%	ALL	305353.87

Monorail crane for return and excess sludge pumps --- An.35

1		Sp + p	oh	44
2		Social security 16.7%	ALL	16153.28
3		Miscellaneous expenses 5%	ALL	501901.505

Ventilation fan for the pumping station for returned and excess sludge, 1 --- An.36

1		Sp + p	oh	12
2		Social security 16.7%	ALL	4405.44
3		Miscellaneous expenses 5%	ALL	88646.85

Pump for waste pits 1 piece --- An.37

1		Sp + p	oh	12
2		Social security 16.7%	ALL	4405.44
3		Miscellaneous expenses 5%	ALL	145144.02

Valve --- An.38

1		Sp + p	oh	44
2		Social security 16.7%	ALL	16153.28
3		Miscellaneous expenses 5%	ALL	519254.21

Mixer for thickened sludge storage tank --- An.39

1		Sp + p	oh	44
2		Social security 16.7%	ALL	16153.28
3		Miscellaneous expenses 5%	ALL	463241.295

Motorized discharge valve for thick sludge tank, 1 --- An.40

1		Sp + p	oh	44
2		Social security 16.7%	ALL	16153.28
3		Miscellaneous expenses 5%	ALL	137817.57

Motorized discharge valve for thick sludge tank, 2 --- An.41

1		Sp + p	oh	44
2		Social security 16.7%	ALL	16153.28
3		Miscellaneous expenses 5%	ALL	137978.99

Compressor, sludge treatment, 1 --- An.42

1		Sp + p	oh	12
2		Social security 16.7%	ALL	4405.44
3		Miscellaneous expenses 5%	ALL	150874.45

Sludge dehydration feed pump, 1 --- An.43

1		Sp + p	oh	44
2		Social security 16.7%	ALL	16153.28
3		Miscellaneous expenses 5%	ALL	257349.45

Static mixer for mixing sludge and polymer --- An.44

1		Sp + p	oh	44
2		Social security 16.7%	ALL	16153.28
3		Miscellaneous expenses 5%	ALL	106824.83

Screw press machine for sludge dehydration --- An.45

1		Sp + p	oh	44
2		Social security 16.7%	ALL	16153.28
3		Miscellaneous expenses 5%	ALL	8299722.326

Screw conveyor for dewatered sludge --- An.46

1		Sp + p	oh	44
2		Social security 16.7%	ALL	16153.28
3		Miscellaneous expenses 5%	ALL	1437656.145

Compressor, sludge treatment,1 --- An.47

1		Sp + p	oh	44
2		Social security 16.7%	ALL	16153.28
3		Miscellaneous expenses 5%	ALL	579302.638

Polyelectrolyte preparation tank --- An.48

1		Sp + p	oh	44
2		Social security 16.7%	ALL	16153.28
3		Miscellaneous expenses 5%	ALL	1531683.59

Polyelectrolyte dosing pump for dehydration, 1 --- An.49

1		Sp + p	oh	44
2		Social security 16.7%	ALL	16153.28
3		Miscellaneous expenses 5%	ALL	93911.19

Static mixing, polyelectrolyte solution for dehydration + post-dissolution system --- An.50

1		Sp + p	oh	44
2		Social security 16.7%	ALL	16153.28
3		Miscellaneous expenses 5%	ALL	1113281.65

Valve --- An.51

1		Sp + p	oh	44
2		Social security 16.7%	ALL	16153.28
3		Miscellaneous expenses 5%	ALL	1003515.71

Stainless steel door, distribution room 2.1 --- An.52

1		Sp + p	oh	44
2		Social security 16.7%	ALL	16153.28
3		Miscellaneous expenses 5%	ALL	215945.09

Scraper bridge in the sedimentation chamber, 1 --- An.53

1		Sp + p	oh	44
2		Social security 16.7%	ALL	16153.28
3		Miscellaneous expenses 5%	ALL	5388503.6

Floating sludge pump on the bridge, 1 --- An.54

1		Sp + p	oh	44
2		Social security 16.7%	ALL	16153.28
3		Miscellaneous expenses 5%	ALL	156542.34

Valve --- An.55

1		Sp + p	oh	44
2		Social security 16.7%	ALL	16153.28
3		Miscellaneous expenses 5%	ALL	242579.47

Stainless steel gate at the entrance to the treated water tank --- An.56

1		Sp + p	oh	44
2		Social security 16.7%	ALL	16153.28
3		Miscellaneous expenses 5%	ALL	252426.123

Mechanical installations in the warehouse and office of the Plant --- An.57

1		Sp + p	oh	514
2		Social security 16.7%	ALL	188808.04
3		Miscellaneous expenses 5%	ALL	0

Exhaust fan, 1 --- An.58

1		Sp + p	oh	28
2		Social security 16.7%	ALL	10279.36
3		Miscellaneous expenses 5%	ALL	7162570.38

KUN pipeline from the fence to the entrance to ITUN --- An.59

1		Sp + p	oh	0.5
2		Social security 16.7%	ALL	183.56
3		Miscellaneous expenses 5%	ALL	1459.424

Pipeline from septic tank to sewer --- An.60

1		Sp + p	oh	2
2		Social security 16.7%	ALL	744.9
3		Miscellaneous expenses 5%	ALL	1459.42

Pipeline from pre-treatment to biological process room -- An.61

1		Sp + p	oh	2
2		Social security 16.7%	ALL	744.9
3		Miscellaneous expenses 5%	ALL	8021.715

Pipes from the biological process chamber to the secondary sedimentation,1 --- An.62

1		Sp + p	oh	1.5
2		Social security 16.7%	ALL	550.68
3		Miscellaneous expenses 5%	ALL	6145.83

Connecting pipes between secondary sedimentation chamber 1 and 2 - An.63

1		Sp + p	oh	1
2		Social security 16.7%	ALL	367.12
3		Miscellaneous expenses 5%	ALL	4062.51

Pipes from the UV disinfection unit to the discharge well - An.64

1		Sp + p	oh	0.24
2		Social security 16.7%	ALL	89.88
3		Miscellaneous expenses 5%	ALL	1459.42

Pipeline from the discharge well to the final discharge well into the sea -- An.65

1		Sp + p	oh	0.5
2		Social security 16.7%	ALL	183.56
3		Miscellaneous expenses 5%	ALL	1251.19

Pipelines from secondary sedimentation to the pumping station for returned and excess sludge --- An.66

1		Sp + p	oh	2.5
2		Social security 16.7%	ALL	917.8
3		Miscellaneous expenses 5%	ALL	2202.69

Pipelines from secondary sedimentation chambers 1, 2 to the sludge pumping station --- An.67

1		Sp + p	oh	2.8
2		Social security 16.7%	ALL	1011.48
3		Miscellaneous expenses 5%	ALL	2202.69

Pipelines from the sludge pumping station back to the biological process room --- An.68

1		Sp + p	oh	2
2		Social security 16.7%	ALL	734.24
3		Miscellaneous expenses 5%	ALL	3862.72

Pipeline from the foam pit to the sludge deposit --- An.69

1		Sp + p	oh	0.5
2		Social security 16.7%	ALL	177.15
3		Miscellaneous expenses 5%	ALL	540

Pipelines from excess sludge pumps to sludge disposal site - An.70

1		Sp + p	oh	0.2
2		Social security 16.7%	ALL	73.42
3		Miscellaneous expenses 5%	ALL	413,958

Pipelines from sludge tank to sludge building --- An.71

1		Sp + p	oh	0.9
2		Social security 16.7%	ALL	329.76
3		Miscellaneous expenses 5%	ALL	413,958

ITUN wastewater pipeline --- An.72

1		Sp + p	oh	0.1
2		Social security 16.7%	ALL	36.71
3		Miscellaneous expenses 5%	ALL	240.07

Service water pipes DN32 --- An.73

1		Sp + p	oh	0.1
2		Social security 16.7%	ALL	36.71
3		Miscellaneous expenses 5%	ALL	454.76

Pipeline from UV backwash unit to foam pit --- An.74

1		Sp + p	oh	0.02
2		Social security 16.7%	ALL	7.34
3		Miscellaneous expenses 5%	ALL	95,958

Air line generated by biological processes --- An.75

1		Sp + p	oh	0.2
2		Social security 16.7%	ALL	73.42
3		Miscellaneous expenses 5%	ALL	1311,455

Air line generated by biological processes --- An.76

1		Sp + p	oh	1.9
2		Social security 16.7%	ALL	697.53
3		Miscellaneous expenses 5%	ALL	4475,758

Other small and auxiliary pipelines --- An.77

1		Sp + p	oh	21
2		Social security 16.7%	ALL	7872.42
3		Miscellaneous expenses 5%	ALL	329800

Designer: EBS Ltd.
Object: "Wastewater Treatment Plant and KUZ system, Dhërmi" - MECHANICAL INSTALLATIONS - PHASE 2

Date: 22-06-2026

BILL OF QUANTITIES

NO.	CODE	TITLE OF WORKS.	Unit	QUANTITY
1. OUTSIDE LISTS ANALYSIS				
1	An.15	Stainless steel door distribution room 1.1	PIECES	1
2	An.16	Submersible mixer, aeration chambers 2.1 and 2.2	PIECES	2
3	An.17	Air diffuser in ventilation rooms -	PIECES	1
4	An.18	Valves	PIECES	1
5	An.19	Air blower system for ventilation room 1	PIECES	1
6	An.20	Ventilation fan for blower building 1	PIECES	1
7	An.22	Valves	PIECES	1
8	An.32	Activated sludge return pump, 1	PIECES	1
9	An.36	Ventilation fan for sludge pumping station returned and abundant, 1	PIECES	1
10	An.37	Sump pump 1 piece -	PIECES	1
11	An.38	Valves	PIECES	1
12	An.52	Stainless steel door, distribution room 2.1	PIECES	1
13	An.53	Scraper bridge in the sedimentation chamber, 1	PIECES	1
14	An.54	Floating sludge pump on the bridge, 1	PIECES	2
15	An.55	Valves	PIECES	1
16	An.61	Pipeline from pre-treatment to the process room biological	ml	14
17	An.62	Pipes from the biological process room to secondary sedimentation,1	ml	29.2
18	An.63	Connecting pipes between the sedimentation chamber secondary 1 to 2	ml	23
19	An.67	Pipelines from secondary sedimentation chambers 1, 2 to sludge pumping station	ml	11.9
20	An.68	Pipelines from the sludge pumping station returned to biological process room	ml	28.9
21	An.70	Pipelines from excess sludge pumps on site-sludge disposal	ml	30.6
AMOUNT 1:				
2. UNLISTED EQUIPMENT				
22	Pj	Supply of stainless steel doors for distribution room 1.1 and 1.2 according to the project and specifications	PIECES	2
23	Pj	Submerged mixing supply in ventilation chambers	PIECES	2
24	Pj	Air distributors ventilation room 1.1	PIECES	1
25	Pj	Supply of valves according to the number and specifications of PROJECT	PIECES	1
26	Pj	Supply of air blower according to the room design blower	PIECES	1
27	Pj	Supply of ventilation fan for blower building 1	PIECES	1
28	Pj	Supply of valves according to the number and specifications of PROJECT	PIECES	1
29	Pj	Activated sludge return pump according to project specifications	PIECES	1
30	Pj	Supply Ventilation fan for the pumping station returned and excess sludge, 1 according to project specifications	PIECES	1
31	Pj	Supply of 1 waste pit pump according to project specifications	PIECES	1
32	Pj	Supply of valves in the sludge return system and excessive according to the technological scheme of the project	PIECES	1
33	Pj	Supply of valves for the sludge dehydration system, according to project specifications	PIECES	1
34	Pj	Supply of valves for the sludge dehydration system, according to project specifications	PIECES	1
35	Pj	Supply to the floating sludge pump on the bridge, according to project specifications	PIECES	2
36	Pj	Supply of valves for the secondary sedimentation system, according to project specifications	PIECES	1
37	Pj	Supply of stainless steel piping according to specifications project (Pipeline from pre-treatment to biological process room)	ml	14
38	Pj	Supply of stainless steel pipes according to specifications project (Pipelines from the biological process chamber to the secondary sedimentation, 1)	ml	29.2
39	Pj	Supply of stainless steel pipes according to specifications project (Connecting pipes between secondary sedimentation chamber 1 and 2)	ml	23
40	Pj	Supply of pipeline for sludge transport according to project and its preparation for installation (Pipes from secondary sedimentation chambers 1, 2 to the sludge pumping station)	ml	11.9
41	Pj	Supply of pipeline for sludge transport according to project and its preparation for installation (Piping from the sludge pumping station back to the biological process chamber)	ml	28.9
42	Pj	Supply of OD 200 pipeline and preparation for installation (Pipes from excess sludge pumps to sludge disposal site)	ml	30.6
AMOUNT 2:				
Analysis Amount				
Reserve Fund (3.0%)				
Analysis Amount + Reserve Fund (3.0%)				
VAT amount (20%)				
Amount including VAT				
Equipment Amount (excluding VAT on sale)				
VAT amount (for equipment)				
Equipment Amount (including VAT on sale)				
TOTAL				

External analyses:

Stainless steel door distribution room 1.1 --- An.15

1		Sp + p	oh	28
2		Social security 16.7%	ALL	10279.36
3		Miscellaneous expenses 5%	ALL	266218.48

Submersible mixer, aeration chambers 2.1 and 2.2 --- An.16

1		Sp + p	oh	22
2		Social security 16.7%	ALL	8076.64
3		Miscellaneous expenses 5%	ALL	480934.61

Air diffuser in ventilation chambers - --- An.17

1		Sp + p	oh	38
2		Social security 16.7%	ALL	13950.56
3		Miscellaneous expenses 5%	ALL	3103542.57

Valve --- An.18

1		Sp + p	oh	64
2		Social security 16.7%	ALL	23495.68
3		Miscellaneous expenses 5%	ALL	242651.36

Air blower system for ventilation room 1 --- An.19

1		Sp + p	oh	44
2		Social security 16.7%	ALL	16153.28
3		Miscellaneous expenses 5%	ALL	1724581.088

Ventilation fan for blower building 1 --- An.20

1		Sp + p	oh	12
2		Social security 16.7%	ALL	4405.44
3		Miscellaneous expenses 5%	ALL	88727.56

Valve --- An.22

1		Sp + p	oh	88
2		Social security 16.7%	ALL	32306.56
3		Miscellaneous expenses 5%	ALL	501300.989

Activated sludge return pump, 1 --- An.32

1		Sp + p	oh	12
2		Social security 16.7%	ALL	4405.44
3		Miscellaneous expenses 5%	ALL	489050.4

Ventilation fan for the pumping station for returned and excess sludge, 1 --- An.36

1		Sp + p	oh	12
2		Social security 16.7%	ALL	4405.44
3		Miscellaneous expenses 5%	ALL	88646.85

Pump for waste pits 1 piece - --- An.37

1		Sp + p	oh	12
2		Social security 16.7%	ALL	4405.44
3		Miscellaneous expenses 5%	ALL	145144.02

Valve --- An.38

1		Sp + p	oh	44
2		Social security 16.7%	ALL	16153.28
3		Miscellaneous expenses 5%	ALL	519254.21

Stainless steel door, distribution room 2.1 --- An.52

1		Sp + p	oh	44
2		Social security 16.7%	ALL	16153.28
3		Miscellaneous expenses 5%	ALL	215945.09

Scraper bridge in the sedimentation chamber, 1 --- An.53

1		Sp + p	oh	44
2		Social security 16.7%	ALL	16153.28
3		Miscellaneous expenses 5%	ALL	5388503.6

Floating sludge pump on the bridge, 1 --- An.54

1		Sp + p	oh	44
2		Social security 16.7%	ALL	16153.28
3		Miscellaneous expenses 5%	ALL	156542.34

Valve --- An.55

1		Sp + p	oh	44
2		Social security 16.7%	ALL	16153.28
3		Miscellaneous expenses 5%	ALL	242579.47

Pipeline from pre-treatment to biological process room --- An.61

1		Sp + p	oh	2
2		Social security 16.7%	ALL	744.9
3		Miscellaneous expenses 5%	ALL	8021.715

Pipes from the biological process chamber to the secondary sedimentation,1 --- An.62

1		Sp + p	oh	1.5
2		Social security 16.7%	ALL	550.68
3		Miscellaneous expenses 5%	ALL	6145.83

Connecting pipes between secondary sedimentation chamber 1 and 2 - An.63

1		Sp + p	oh	1
2		Social security 16.7%	ALL	367.12
3		Miscellaneous expenses 5%	ALL	4062.51

Pipelines from secondary sedimentation chambers 1, 2 to the sludge pumping station --- An.67

1		Sp + p	oh	2.8
2		Social security 16.7%	ALL	1011.48
3		Miscellaneous expenses 5%	ALL	2202.69

Pipelines from the sludge pumping station back to the biological process room --- An.68

1		Sp + p	oh	2
2		Social security 16.7%	ALL	734.24
3		Miscellaneous expenses 5%	ALL	3862.72

Pipelines from excess sludge pumps to sludge disposal site - An.70

1		Sp + p	oh	0.2
2		Social security 16.7%	ALL	73.42
3		Miscellaneous expenses 5%	ALL	413.958

Designer: EBS Ltd.

Date: 22-06-2026

Object: "Wastewater Treatment Plant and KUZ system, Dhérmí"-ELECTRICAL INSTALLATIONS

BILL OF QUANTITIES

NO.	CODE	TITLE OF WORKS.	Unit	QUANTITY
1. OUTSIDE LISTS ANALYSIS				
1	An.78	Transformer	PIECES	1
2	An.79	Medium voltage (MV) switchgear, 3 pieces, input/output/transformer	PIECES	1
3	An.80	24kV energy metering panel	PIECES	1
4	An.81	Low voltage switching equipment	PIECES	1
5	An.82	Main low voltage distributor	PIECES	1
6	An.83	UG 100 engine control board, including starters their	PIECES	1
7	An.84	UG 200 MCC	PIECES	1
8	An.85	UG 300 MCC	PIECES	1
9	An.86	UG 400 MCC	PIECES	1
10	An.87	UG 500 MCC	PIECES	1
11	An.88	UG 600 MCC	PIECES	1
12	An.89	Lighting distribution panel	PIECES	2
13	An.90	Emergency generator 500 kVA	PIECES	1
14	An.91	External fuel tank	PIECES	1
15	An.92	Outdoor lighting with 6 m high poles and LED lamps 100W	PIECES	1
16	An.93	Interior lighting of buildings	PIECES	1
17	An.94	Internal building sockets -	PIECES	1
18	An.95	Grounding system	PIECES	1
19	An.96	Lighting system	PIECES	1
20	An.97	Medium voltage cable 1 x 240 mm	ml	1200
21	An.98	Low voltage cables	ml	1
22	An.99	Cable accommodation systems and PVC pipes for protection -	PIECES	1
23	An.100	Accessories for connecting cables, joints, splices, etc.	PIECES	1
24	An.101	Fire alarm system	PIECES	1
25	An.102	Burglar alarm system	PIECES	1
26	An.103	PV External power supply line of the ITUN Dhermi Plant and the KUZ Dhermi Pumping Station	km	1
AMOUNT 1:				
2. UNLISTED EQUIPMENT				
27	Pj	Power transformer supply min. 400 kVA	PIECES	1
28	Pj	Supply Medium Voltage (MV) Switchgear, 3 piece, input/output/transformer	PIECES	1
29	Pj	Supply to the 24 kV energy metering panel	PIECES	1
30	Pj	Supply of low voltage switching equipment	PIECES	1
31	Pj	Supply of the low voltage switchgear	PIECES	1
32	Pj	Supply of UG 100 control board including their starters	PIECES	1
33	Pj	Supply of low voltage distribution board according to electrical project and specifications UG 200 MCC.	PIECES	1
34	Pj	Supply of low voltage distribution board according to electrical project and specifications UG 300 MCC.	PIECES	1
35	Pj	Supply of low voltage distribution board according to electrical project and specifications UG 400 MCC	PIECES	1
36	Pj	Supply of low voltage distribution board according to electrical project and specifications UG 500 MCC	PIECES	1
37	Pj	Supply of low voltage distribution board according to electrical project and specifications UG 600 MCC	PIECES	1
38	Pj	Supply of distribution panels for lighting	PIECES	2
39	Pj	Emergency Generator Supply 500 kVA according to project requirements	PIECES	1
40	Pj	Fuel tank supply according to project requirements	PIECES	1
41	Pj	Supply of external lighting materials according to the lighting plan (6 m metal poles, 100 W LED lamps, etc.)	PIECES	1
42	Pj	Supply of interior lighting materials buildings	PIECES	1
43	Pj	Supply of internal sockets for ITUN buildings and Pumping stations	PIECES	1
44	Pj	Supply of grounding system materials according to the project of grounding	PIECES	1
45	Pj	Supply of lighting system materials	PIECES	1
46	Pj	Medium voltage cable supply (dimensions) different	PIECES	1200
47	Pj	Low voltage cable supply (dimensions) different	ml	6600
48	Pj	We supply cable accommodation systems in different dimensions	PIECES	1
49	Pj	Supply of cable connection accessories, joints, juntas, etc.	PIECES	1
50	Pj	Supply of fire protection system equipment	PIECES	1
51	Pj	Supply of fire protection system equipment thefts	PIECES	1
52	Pj	20 kV overhead line for ITUN and pumping stations + connection accessories at the cabin and destination	km	5.2
AMOUNT 2:				
Analysis Amount				
Reserve Fund (3.0%)				
Analysis Amount + Reserve Fund (3.0%)				
VAT amount (20%)				
Amount including VAT				
Equipment Amount (excluding VAT on sale)				
VAT amount (for equipment)				
Equipment Amount (including VAT on sale)				
TOTAL				

Preventer: Eng. Fahri Maho

Investor: National Agency for Water Supply and Sewerage

External analyses :

Transformer --- An.78

1		Sp + p	oh	12
2		Social security 16.7%	ALL	4405.44
3		Miscellaneous expenses 5%	ALL	775797.78

Medium voltage (MV) switchgear, 3 pieces, input/output/transformer --- An.79

1		Sp + p	oh	12
2		Social security 16.7%	ALL	4405.44
3		Miscellaneous expenses 5%	ALL	947258.63

24KV energy measurement panel - An.80

1		Sp + p	oh	16
2		Social security 16.7%	ALL	5873.92
3		Miscellaneous expenses 5%	ALL	770974.38

Low voltage switching equipment --- An.81

1		Sp + p	oh	24
2		Social security 16.7%	ALL	8810.88
3		Miscellaneous expenses 5%	ALL	283448.66

Main low voltage distributor --- An.82

1		Sp + p	oh	24
2		Social security 16.7%	ALL	8810.88
3		Miscellaneous expenses 5%	ALL	2306752.94

UG 100 engine control board, including their starters --- An.83

1		Sp + p	oh	24
2		Social security 16.7%	ALL	8810.88
3		Miscellaneous expenses 5%	ALL	2810384.09

UG 200 MCC --- An.84

1		Sp + p	oh	12
2		Social security 16.7%	ALL	4405.44
3		Miscellaneous expenses 5%	ALL	5075606.49

UG 300 MCC --- An.85

1		Sp + p	oh	12
2		Social security 16.7%	ALL	4405.44
3		Miscellaneous expenses 5%	ALL	870225.543

UG 400 MCC --- An.86

1		Sp + p	oh	12
2		Social security 16.7%	ALL	4405.44
3		Miscellaneous expenses 5%	ALL	2294658.958

UG 500 MCC --- An.87

1		Sp + p	oh	12
2		Social security 16.7%	ALL	4405.44
3		Miscellaneous expenses 5%	ALL	3555411.178

UG 600 MCC --- An.88

1		Sp + p	oh	12
2		Social security 16.7%	ALL	4405.44
3		Miscellaneous expenses 5%	ALL	1382624.25

Lighting distribution panel --- An.89

1		Sp + p	oh	8
2		Social security 16.7%	ALL	2936.96
3		Miscellaneous expenses 5%	ALL	101665.56

Emergency generator 500 kVA --- An.90

1		Sp + p	oh	24
2		Social security 16.7%	ALL	8810.88
3		Miscellaneous expenses 5%	ALL	8535889.34

External fuel tank --- An.91

1		Sp + p	oh	16
2		Social security 16.7%	ALL	5873.92
3		Miscellaneous expenses 5%	ALL	449484.47

Outdoor lighting with 6 m high poles and 100 W LED lamps - An.92

1		Sp + p	oh	12
2		Sp + p	ALL	4405.44
3		Miscellaneous expenses 5%	ALL	907129.495

Interior lighting of buildings - An.93

1		Sp + p	oh	96
2		Social security 16.7%	ALL	35243.52
3		Miscellaneous expenses 5%	ALL	280038.388

Internal building sockets --- An.94

1		Sp + p	oh	48
2		Social security 16.7%	ALL	17621.76
3		Miscellaneous expenses 5%	ALL	208421.13

Grounding system --- An.95

1		Sp + p	oh	48
2		Social security 16.7%	ALL	17621.76
3		Miscellaneous expenses 5%	ALL	910681.015

Lighting system --- An.96

1		Sp + p	oh	44
2		Social security 16.7%	ALL	16153.28
3		Miscellaneous expenses 5%	ALL	438039.7

Medium voltage cable 1 x 240 mm --- An.97

1		Sp + p	oh	0.01
2		Social security 16.7%	ALL	3.67
3		Miscellaneous expenses 5%	ALL	1090.348

Low voltage cables --- An.98

1		Sp + p	oh	96
2		Social security 16.7%	ALL	35243.52
3		Miscellaneous expenses 5%	ALL	11134068

Cable accommodation systems and PVC pipes for protection --- An.99

1		Sp + p	oh	48
2		Social security 16.7%	ALL	17621.76
3		Miscellaneous expenses 5%	ALL	1425063.58

Accessories for connecting cables, joints, splices, etc. --- An.100

1		Sp + p	oh	24
2		Social security 16.7%	ALL	8810.88
3		Miscellaneous expenses 5%	ALL	355017.67

Fire alarm system --- An.101

1		Sp + p	oh	32
2		Social security 16.7%	ALL	11747.84
3		Miscellaneous expenses 5%	ALL	442956.025

Burglar alarm system --- An.102

1		Sp + p	oh	32
2		Social security 16.7%	ALL	11747.84
3		Miscellaneous expenses 5%	ALL	534158.61

PV External power supply line of ITUN Dhermi Plant and KUZ Dhermi Pumping Station --- An.103

1		Sp + p	oh	48
2		Social security 16.7%	ALL	17621.76
3		Miscellaneous expenses 5%	ALL	4015927.18

Designer: EBS Ltd.
Object: "Wastewater Treatment Plant and KU/Z system, Dhërmi" - SCADA SYSTEM IN ITUN DHERMI

Date: 22-06-2026

BILL OF QUANTITIES

NO.	CODE	TITLE OF WORKS.	Unit	QUANTITY
1. OUTSIDE LISTS ANALYSIS				
1	An.104	PLC (Programmable Logic Control) equipment included Operation Panels	PIECES	1
2	An.105	Personal Computer (PC) and Large Screen in the office audit	PIECES	1
3	An.106	PLC configuration, testing and commissioning including operating panels	PIECES	1
4	An.107	PC configuration, testing and commissioning	PIECES	1
5	An.108	UPS equipment	PIECES	1
6	An.109	SCADA system configuration, testing and commissioning	PIECES	1
7	An.110	Level meters	PIECES	1
8	An.111	Level limit detector	PIECES	1
9	An.112	Sampling system	PIECES	1
10	An.113	Pressure gauges/control switches	PIECES	1
11	An.114	Oxygen reduction reaction (Redox) measurements	PIECES	1
12	An.115	CH ₄ , H ₂ S detection	PIECES	1
13	An.116	Oxygen meters	PIECES	2
14	An.117	Nitrate measurements	PIECES	1
15	An.118	COD (Chemical Oxygen Demand) Measurements	PIECES	1
16	An.119	Flow measurements	PIECES	1
17	An.120	PH and conductivity measurements	PIECES	1
18	An.121	Control room furniture	PIECES	1
AMOUNT 1:				
2. UNLISTED EQUIPMENT				
19	Pj	Supply of PCL device including operation panel	PIECES	1
20	Pj	Supply of Personal Computer (PC) and Large Screen in the control office	PIECES	1
21	Pj	UPS Equipment Supply	PIECES	1
22	Pj	Supply of level meters	PIECES	1
23	Pj	Supply of level limit detectors	PIECES	1
24	Pj	Supply I Sampling system	PIECES	1
25	Pj	Supply of pressure gauges/switches	PIECES	1
26	Pj	Supply of Measurements of Reduction Reaction oxygen (Redox)	PIECES	1
27	Pj	Supply of CH ₄ , H ₂ S Detection Equipment	PIECES	1
28	Pj	Supply of oxygen measuring equipment	PIECES	2
29	Pj	Supply of nitrate measurement equipment	PIECES	1
30	Pj	Supply of COD measurement equipment	PIECES	1
31	Pj	Supply of flow measurement equipment by number and project requirements	PIECES	1
32	Pj	Supply of PH and conductivity measurement equipment according to the number and requirements of the project	PIECES	1
33	Pj	Supply of equipment and furniture for the control room	PIECES	1
AMOUNT 2:				
Analysis Amount				
Reserve Fund (3.0%)				
Analysis Amount + Reserve Fund (3.0%)				
VAT amount (20%)				
Amount including VAT				
Equipment Amount (excluding VAT on sale)				
VAT amount (for equipment)				
Equipment Amount (including VAT on sale)				
TOTAL				

Preventer: Eng. Fahri Maho

Investor: National Agency for Water Supply and Sewerage

External analyses:

PLC (Programmable Logic Control) Equipment including Operation Panels --- An.104

1		Sp + p	oh	96
2		Social security 16.7%	ALL	35243.52
3		Miscellaneous expenses 5%	ALL	6162604.97

Personal Computer (PC) and Large Screen in the control room - An.105

1		Sp + p	oh	48
2		Social security 16.7%	ALL	17621.76
3		Miscellaneous expenses 5%	ALL	1941270.2

PLC configuration, testing and commissioning including operation panels --- An.106

1		Sp + p	oh	4806
2		Social security 16.7%	ALL	1764265.9
3		Miscellaneous expenses 5%	ALL	0

PC configuration, testing and commissioning --- An.107

1		Sp + p	oh	447
2		Social security 16.7%	ALL	164117.76
3		Miscellaneous expenses 5%	ALL	0

UPS equipment --- An.108

1		Sp + p	oh	42
2		Social security 16.7%	ALL	15419.04
3		Miscellaneous expenses 5%	ALL	1259699

SCADA system configuration, testing and commissioning - An.109

1		Sp + p	oh	3353
2		Social security 16.7%	ALL	1230883.2
3		Miscellaneous expenses 5%	ALL	0

Level meters --- An.110

1		Sp + p	oh	48
2		Social security 16.7%	ALL	17621.76
3		Miscellaneous expenses 5%	ALL	1436919.92

Level limit detector --- An.111

1		Sp + p	oh	48
2		Social security 16.7%	ALL	17621.76
3		Miscellaneous expenses 5%	ALL	111290.378

Sampling system --- An.112

1		Sp + p	oh	48
2		Social security 16.7%	ALL	17621.76
3		Miscellaneous expenses 5%	ALL	822032.105

Pressure gauges/control switches --- An.113

1		Sp + p	oh	48
2		Social security 16.7%	ALL	17621.76
3		Miscellaneous expenses 5%	ALL	263142.68

Oxygen Reduction Reaction (Redox) Measurements --- An.114

1		Sp + p	oh	1
2		Social security 16.7%	ALL	367.12
3		Miscellaneous expenses 5%	ALL	162388.58

CH4, H2S detection --- An.115

1		Sp + p	oh	1
2		Social security 16.7%	ALL	367.12
3		Miscellaneous expenses 5%	ALL	430524.178

Oxygen meters --- An.116

1		Sp + p	oh	1
2		Social security 16.7%	ALL	367.12
3		Miscellaneous expenses 5%	ALL	1552771.96

Nitrate measurements --- An.117

1		Sp + p	oh	1
2		Social security 16.7%	ALL	367.12
3		Miscellaneous expenses 5%	ALL	432804.24

COD (Chemical Oxygen Demand) Measurements --- An.118

1		Sp + p	oh	1
2		Social security 16.7%	ALL	367.12
3		Miscellaneous expenses 5%	ALL	1084902.71

Flow measurements --- An.119

1		Sp + p	oh	1
2		Social security 16.7%	ALL	367.12
3		Miscellaneous expenses 5%	ALL	1641238.46

PH and conductivity measurements --- An.120

1		Sp + p	oh	1
2		Social security 16.7%	ALL	367.12
3		Miscellaneous expenses 5%	ALL	529934.99

Control room furniture --- An.121

1		Sp + p	oh	48
2		Social security 16.7%	ALL	17621.76
3		Miscellaneous expenses 5%	ALL	554990.94

Designer: EBS Ltd.
 Object: "Wastewater Treatment Plant and KUZ system, Dhërmi" - Option 2_Discharge into the sea

Date: 22-06-2026

BILL OF QUANTITIES

NO.	CODE	TITLE OF WORKS.	Unit	QUANTITY
1. EARTHWORKS				
1	2.48/yea r	Hard rock excavation with a hammer and excavator STRAND	m3	1440
AMOUNT 1:				
2. EXCAVATION WORKS				
2	3.102/a	Excavation of soil with a 0.5 m ³ chain excavator, in canals width up to 2 m, water proximity ~1m, category IV, with ground clearance	m3	750
3	3.158/5 or	Soil transport by car up to 5.0 km	m3	630
AMOUNT 2:				
3. CONSTRUCTION OF WORKS OF ART + SEWERAGE				
4	3.353	Filling with previously excavated rock	m3	1560
5	3.378	Drainage construction, gravel filling produced by Mak	m3	1860
6	3.396/1	Gravel filling behind walls	m3	40
AMOUNT 3:				
4. PRODUCTION OF BUILDING MATERIALS				
7	1.29/p	Concrete C-16/20 (With gravel)	m3	3
8	1.107/p	Preparation of metal stairs with Ø and profiles	tone	0.3
AMOUNT 4:				
5. CONCRETE AND REINFORCED CONCRETE WORKS				
9	3.248	Monolithic concrete structure with ballast C 30/37	m3	8.98
SUM 5:				
6. MISCELLANEOUS, ELECTRICAL AND SIGNALING				
10	3.166	FV waterstop type RT 2000 10*20 & h/insulator type rapid cement in the joint of the b/a frames.	ml	42
AMOUNT 6:				
7. PAINT WORKS				
11	2.447	Formwork for walls b/a	m2	145.8
SUM 7:				
8. CONCRETE IRON WORKS				
12	2.166	FV periodic concrete reinforcement Ø 6 - 10 mm	tone	0.3
13	2.166/1 or	FV periodic concrete reinforcement Ø > 12 mm	tone	2.6
SUM 8:				
9. PLUMBING AND HEATING INSTALLATIONS				
14	2.491/n	PV PE water supply pipe d=355mm, t = 26.1 mm, Pn 10	ml	505
15	2.491/1 l	FV PE water supply pipes and fittings d=250mm, t = 27.9 mm, Pn 20	ml	450
SUM 9:				
10. OUT-OF-LISTS ANALYSIS				
16	An.172	Preparation of pipe strings, installation of neoprene sleeves and concrete blocks for pipe support under water	PIECES	45
17	An.173	Installation of M30 stainless steel fixing rod included Stainless steel washers and nuts	PIECES	90
18	An.174	Diffuser installation (diffuser separate from pipe) or diffuser Duckbill valve installation (diffuser part of pipe) includes installation of 60 pieces of Duckbill valves 50mm	PIECES	40
19	An.175	V. Flange adapter	PIECES	3
20	An.176	V. Stainless steel blind flange	PIECES	1
21	An.193	Preparation and placement of reinforced concrete ballast for the offshore discharge pipeline	PIECES	45
22	An.194	FV Filter Bag Model 2T	PIECES	60
23	An.195	Works for the installation of the pipeline, filter units, anchor blocks and all other works necessary for the completion of the works with the use of all necessary equipment according to the works methodology and tender requirements for the discharger in sea	ALL	1
24	An.196	Supply and installation of the distinctive sign and the block of anchoring at the end of the diffuser	PIECES	1
SUM 10:				
11. UNLISTED EQUIPMENT				
25	Pj		PIECES	45
26	Pj		PIECES	90
27	Pj		PIECES	40
28	Pj	Flange adapter supply	PIECES	3
29	Pj	Supply of stainless steel blind flanges	PIECES	1
SUM 11:				
Analysis Amount				
Reserve Fund (3.0%)				
Analysis Amount + Reserve Fund (3.0%)				
VAT amount (20%)				
Amount including VAT				
Equipment Amount (excluding VAT on sale)				
VAT amount (for equipment)				
Equipment Amount (including VAT on sale)				
TOTAL				

Preventer: Eng. Fahri MahoInvestor: National Agency for

Water Supply and Sewerage

External analyses:

Preparation of pipe strings, installation of neoprene sleeves and concrete blocks to hold the pipe underwater --- An.172

1		Specialist + worker	oh	1.34
2		Social insurance	ALL	0.167
3		Miscellaneous expenses 5%	ALL	0.05

Installation of M30 Stainless Steel Fixed Rod including washers and Stainless Steel Caps --- An.173

1		Specialist + worker	oh	2.5
2		Social insurance	ALL	0.167
3		Miscellaneous expenses 5%	ALL	0.05

Diffuser installation (diffuser separate from pipe) or installation of Duckbill diffuser valves (diffuser part of pipe) includes installation of 60 pieces of valves

1		Specialist + worker	oh	15
2		Social insurance	ALL	0.167
3		Miscellaneous expenses 5%	ALL	0.05

V. Flange adapter --- An.175

1		Specialist + worker	oh	3.5
2		Social insurance	ALL	0.167
3		Miscellaneous expenses 5%	ALL	0.05

V. Stainless steel blind flange --- An.176

1		Specialist + worker	oh	3.5
2		Social insurance	ALL	0.167
3		Miscellaneous expenses 5%	ALL	0.05

Preparation and placement of reinforced concrete ballast for the offshore discharge pipeline - An.193

1		Specialist + worker	oh	2.5
2		Social insurance	ALL	0.167
3		Reinforced concrete ballast for the discharge pipeline at sea	PIECES	1
4		Miscellaneous expenses 5%	ALL	0.05

FV Bag filter Model 2T --- An.194

1		Specialist + worker	oh	3.8
2		Social insurance	ALL	0.167
3		Supply Filter Bag Model 2T	PIECES	1
4		Miscellaneous expenses 5%	ALL	0.05

Works for the installation of pipelines, filter units, anchor blocks and all other works necessary for the completion of the works with

1		Specialist + worker	oh	44
2		Social insurance	ALL	0.167
3		Auxiliary materials for the installation of the pipeline, filter units, anchor blocks and all other necessary works according to the works methodology and requirements for the sea discharger	ALL	1
4		Miscellaneous expenses 5%	ALL	0.05

Supply and installation of the distinctive sign and anchor block at the end of the diffuser --- An.196

1		Specialist + worker	oh	22
2		Social insurance	ALL	0.167
3			PIECES	1
4		Miscellaneous expenses 5%	ALL	0.05

Designer: EBS Ltd.
Object: "Wastewater Treatment Plant and KUZ system, Dhërmi" - ITUN Dhermi Asst. & Training

Date: 22-06-2026

BILL OF QUANTITIES

NO.	CODE	TITLE OF WORKS.	Unit	QUAN TITY
		1. OUTSIDE LISTS ANALYSIS		
1	An.197	Plant Manager	oh	960
2	An.198	Operations engineer	oh	960
3	An.199	laboratory technician	oh	960
4	An.200	Operations group leader	oh	960
5	An.201	Electrician + machine operator	oh	960
6	An.202	Worker (two workers)	oh	1920
		AMOUNT 1:		
Analysis Amount				
Reserve Fund (3.0%)				
Analysis Amount + Reserve Fund (3.0%)				
VAT amount (20%)				
Amount including VAT				
TOTAL				

Preventer: Eng. Fahri Maho

Investor: National Agency for Water Supply and Sewerage

External analyses:

Plant Manager --- An.197

1		Specialist + worker	oh	1
2		Social insurance	ALL	0.167

Operations Engineer --- An.198

1		Specialist + worker	oh	1
2		Social insurance	ALL	0.167

Laboratory Assistant --- An.199

1		Specialist + worker	oh	1
2		Social insurance	ALL	0.167

Operation group leader --- An.200

1		Specialist + worker	oh	1
2		Social insurance	ALL	0.167

Electrician + machine operator --- An.201

1		Specialist + worker	oh	1
2		Social insurance	ALL	0.167

Worker (two workers) --- An.202

1		Specialist + worker	oh	1
2		Social insurance	ALL	0.167