İLBANK
CONSTRUCTIVE POWER OF TURKEY

İLLER BANKASI A.Ş.

INVESTMENT COORDINATION DEPARTMENT

2019

UNIT PRICES OF

DRINKING - DOMESTIC WATER BOREHOLE DRILLING WORKS,

GEOTHERMAL BOREHOLE DRILLING WORKS AND

GEOTHERMAL WELL TEST AND METERING WORKS

İLLER BANKASI A.Ş.
ANKARA - 2019

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Bu kitap, İller Bankası A.Ş. yayımı olan "İller Bankası A.Ş. 2019 Yılı Birim Fiyatları" dokümanları esas alınarak İngilizceye çevirisi yapılmıştır. İngilizce yayının anlaşılmasında, yorumlanmasında ve anlaşmazlıklarda "İller Bankası A.Ş. 2019 Yılı Birim Fiyatları"nın Türkçe metni esas alınır

This book was translated based on the "İller Bankası A.Ş. 2019 Yılı Birim Fiyatları (İller Bankası A.Ş. 2019 Unit Prices)" documents puplished by the Turkish version of the "İller Bankası A.Ş. 2019 Unit Prices" document shall prevail in understanding and interpreting the English version and resolving any discrepancies.

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INTRODUCTIONS:

1- If there is a difference between the unit prices in the accounts using these unit prices and the unit prices included in the unit price chart; unit prices in unit price table shall be taken as basis.

2- Value Added Tax (VAT) is not included within the market prices and these unit prices used for creating unit prices in unit price chart.

3- Even correction list for printing and material faults is not included in Unit Price Chart; these faults shall be deemed to be approrpiately corrected in the corection list.

4- Materials given in year 2019 market price and unit price list shall conform to our Bank relevant Technical Specifications and TSE standards and ISO certificates.

5- Unit prices given in this unit price chart is valid as of 01.01.2019.

6- Contractor profit is included to the unit prices given in the unit price chart.

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PREVIOUS ITEM NO	NEW ITEM NO	WORK NAME	UNIT	UNIT PRICE (TRY)
		DRINKING WATER - DOMESTIC WATER BOREHOLE DRILLING WORKS **(Contractor profit included)** **TRANSPORTATION WORKS**		
38.0121	**40.115.1521**	Transporting all kinds of well logging devices	km	9,24
38.0150	**40.115.1522**	Loading and unloading bentonite or cement to vehicles.	ton	10,79
38.0151	**40.115.1523**	Loading and unloading of metal pipes of all sizes to vehicles.	ton	50,31
38.0152	**40.115.1524**	Transporting water boring machine and every kind of material and equipment on every kind of road.	km	23,05
38.0153	**40.115.1525**	Transporting metal pipes on all kinds of roads.	km	32,26
		DRINKING WATER - DOMESTIC WATER BOREHOLE DRILLING **A- Rotary System with 400-500 m Capacity Machine - Unreinforced.** **Drilling water borehole according to group 1 lithology definitions.** (Slope debris, clay, marl, sand, gravel, block and all the alluviums with their lacustrine-terrestrial units, which are repeated successively).		
38.1530	**41.500.1201**	Drilling water borehole between 7"-12" diameter according to group 1 lithology definitions.	m	129,25
38.1531	**41.500.1202**	Drilling water borehole between 12 ¼" - 14 ¾" diameter according to group 1 lithology definitions.	m	173,51
38.1532	**41.500.1203**	Drilling water borehole between 15" - 17 ½" diameter according to group 1 lithology definitions.	m	224,00
38.1533	**41.500.1204**	Drilling water borehole between 18" - 22" diameter according to group 1 lithology definitions.	m	318,63
38.1534	**41.500.1205**	Drilling water borehole between 24" - 26" diameter according to group 1 lithology definitions.	m	403,94
		Drilling water borehole according to group 2 lithology definitions. (All sedimentary rocks such as limestone, sandstone, conglomerate, claystone, flysch and rocks like tuff)		
38.1535	**41.500.1221**	Drilling water borehole between 7"-12" diameter according to group 2 lithology definitions.	m	198,15
38.1536	**41.500.1222**	Drilling water borehole between 12 ¼" - 14 ¾" diameter according to group 2 lithology definitions.	m	244,96
38.1537	**41.500.1223**	Drilling water borehole between 15" - 17 ½" diameter according to group 2 lithology definitions.	m	292,34
38.1538	**41.500.1224**	Drilling water borehole between 18" - 22" diameter according to group 2 lithology definitions.	m	382,33
38.1539	**41.500.1225**	Drilling water borehole between 24" - 26" diameter according to group 2 lithology definitions.	m	468,36
		Drilling water borehole according to group 2 lithology definitions. (All metamorphic rocks such as marble, gneiss, schist, sleyt)		
38.1540	**41.500.1241**	Drilling water borehole between 7"-12" diameter according to group 3 lithology definitions.	m	220,65
38.1541	**41.500.1242**	Drilling water borehole between 12 ¼" - 14 ¾" diameter according to group 3 lithology definitions.	m	281,54
38.1542	**41.500.1243**	Drilling water borehole between 15" - 17 ½" diameter according to group 3 lithology definitions.	m	393,06
38.1543	**41.500.1244**	Drilling water borehole between 18" - 22" diameter according to group 3 lithology definitions.	m	427,03
38.1544	**41.500.1245**	Drilling water borehole between 24" - 26" diameter according to group 3 lithology definitions.	m	526,84
		Drilling water borehole according to group 4 lithology definitions. (All volcanic rocks, such as basalt, andesite, trachyte, dacite, trachyandesite, phonalit, tephrite, agglomerate)		
38.1545	**41.500.1261**	Drilling water borehole between 7"-12" diameter according to group 4 lithology definitions.	m	250,28
38.1546	**41.500.1262**	Drilling water borehole between 12 ¼" - 14 ¾" diameter according to group 4 lithology definitions.	m	309,20
38.1547	**41.500.1263**	Drilling water borehole between 15" - 17 ½" diameter according to group 4 lithology definitions.	m	389,29
38.1548	**41.500.1264**	Drilling water borehole between 18" - 22" diameter according to group 4 lithology definitions.	m	447,13
38.1549	**41.500.1265**	Drilling water borehole between 24" - 26" diameter according to group 4 lithology definitions.	m	547,69
		Drilling water borehole according to group 5 lithology definitions. (All magmatic rocks such as granite, granadorite, diabase)		
38.1550	**41.500.1281**	Drilling water borehole between 7"-12" diameter according to group 5 lithology definitions.	m	324,13
38.1551	**41.500.1282**	Drilling water borehole between 12 ¼" - 14 ¾" diameter according to group 5 lithology definitions.	m	410,19
38.1552	**41.500.1283**	Drilling water borehole between 15" - 17 ½" diameter according to group 5 lithology definitions.	m	516,93
38.1553	**41.500.1284**	Drilling water borehole between 18" - 22" diameter according to group 5 lithology definitions.	m	592,79
38.1554	**41.500.1285**	Drilling water borehole between 24" - 26" diameter according to group 5 lithology definitions.	m	725,98

PREVIOUS ITEM NO	NEW ITEM NO	WORK NAME	UNIT	UNIT PRICE (TRY)
		B- Hammer Drill with 400-500 m Capacity Machine - Unreinforced.		
		Drilling water borehole according to group 2 lithology definitions. (All sedimentary rocks such as limestone, sandstone, conglomerate, claystone, flysch and rocks like tuff)		
38.1560	**41.500.1321**	Drilling water borehole between 6" - 8" diameter according to group 2 lithology definitions.	m	154,74
38.1561	**41.500.1322**	Drilling water borehole between 10" - 12 ¼" diameter according to group 2 lithology definitions.	m	249,51
38.1562	**41.500.1323**	Drilling water borehole between 13" - 15" diameter according to group 2 lithology definitions.	m	383,44
38.1563	**41.500.1324**	Drilling water borehole between 17 ½" diameter according to group 2 lithology definitions.	m	523,95
		Drilling water borehole according to group 3 lithology definitions. (All metamorphic rocks such as marble, gneiss, schist, sleyt)		
38.1564	**41.500.1341**	Drilling water borehole between 6" - 8" diameter according to group 3 lithology definitions.	m	160,90
38.1565	**41.500.1342**	Drilling water borehole between 10" - 12 ¼" diameter according to group 3 lithology definitions.	m	259,15
38.1566	**41.500.1343**	Drilling water borehole between 13" - 15" diameter according to group 3 lithology definitions.	m	395,08
38.1567	**41.500.1344**	Drilling water borehole between 17 ½" diameter according to group 3 lithology definitions.	m	539,38
		Drilling water borehole according to group 4 lithology definitions. (All volcanic rocks, such as basalt, andesite, trachyte, dacite, trachyandesite, phonalit, tephrite, agglomerate)		
38.1568	**41.500.1361**	Drilling water borehole between 6" - 8" diameter according to group 4 lithology definitions.	m	168,16
38.1569	**41.500.1362**	Drilling water borehole between 10" - 12 ¼" diameter according to group 4 lithology definitions.	m	277,28
38.1570	**41.500.1363**	Drilling water borehole between 13" - 15" diameter according to group 4 lithology definitions.	m	424,11
38.1571	**41.500.1364**	Drilling water borehole between 17 ½" diameter according to group 4 lithology definitions.	m	662,94
		Drilling water borehole according to group 5 lithology definitions. (All magmatic rocks such as granite, granadorite, diabase)		
38.1572	**41.500.1381**	Drilling water borehole between 6" - 8" diameter according to group 5 lithology definitions.	m	172,73
38.1573	**41.500.1382**	Drilling water borehole between 10" - 12 ¼" diameter according to group 5 lithology definitions.	m	319,15
38.1574	**41.500.1383**	Drilling water borehole between 13" - 15" diameter according to group 5 lithology definitions.	m	527,29
38.1575	**41.500.1384**	Drilling water borehole between 17 ½" diameter according to group 5 lithology definitions.	m	820,36
38.1580	**41.500.1401**	Reinforcing pipe landing cost	m	44,94
38.1581	**41.500.1402**	Well place preparation - well head preparation and channel concrete.	m³	245,65
38.1582	**41.500.1403**	Well head concreting.	m³	245,65
38.1583	**41.500.1404**	Well development	pcs	4.520,83
38.1584	**41.500.1421**	Water efficiency test (Pumping) (for Q= 0,0 - 10,0 lt/sec.)	pcs	7.879,93
38.1585	**41.500.1422**	Water efficiency test (Pumping) (for Q= 11,0 - 20,0 lt/sec.)	pcs	8.020,33
38.1586	**41.500.1423**	Water efficiency test (Pumping) (for Q= 21,0 - 40,0 lt/sec.)	pcs	8.409,73
38.1587	**41.500.1424**	Water efficiency test (Pumping) (for Q= 41,0 - 80,0 lt/sec.)	pcs	9.156,73
38.1588	**41.500.1441**	Deep well pump mounting - dismounting (Installing - dismounting)	pcs	1.035,88
38.1589	**41.500.1442**	Deep well pump mounting (Installing)	pcs	621,53
38.1590	**41.500.1443**	Deep well dismounting (Uninstalling)	pcs	414,35
38.1591	**41.500.1461**	Well Logging in the well	pcs	2.583,90

PREVIOUS ITEM NO	NEW ITEM NO	WORK NAME	UNIT	UNIT PRICE (TRY)
		GEOTHERMAL WELL DRILLING WORKS **(Contractor profit included)** **TRANSPORTATION WORKS**		
38.0150	**40.115.1522**	Loading and unloading bentonite or cement to vehicles.	ton	10,79
38.0151	**40.115.1523**	Loading and unloading of metal pipes of all sizes to vehicles.	ton	50,31
38.0153	**40.115.1525**	Transporting metal pipes on all kinds of roads.	km	32,26
38.0154	**40.115.1526**	Transporting geothermal boring machine and every kind of material and equipment on every kind of road.	km	23,05
		PREPARING WELL PLACE AND WELL HEAD ARRANGING WORKS **(Platform, flood pool, mud pool, mud channel construction works)** **(Stone, sand, gravel, mold material, ready-mixed concrete included)**		
38.1630/A	**41.600.1141**	C 16/20 ready mixed concrete grout	m³	207,63
38.1630/B	**41.600.1142**	C 20/25 ready mixed concrete grout	m³	213,13
38.1630/C	**41.600.1143**	C 25/30 ready mixed concrete grout	m³	221,38
38.1630/D	**41.600.1144**	C 30/37 ready mixed concrete grout	m³	229,63
		PROTECTING TUBE INSULATION		
38.1631	**41.600.1161**	Cementing (Insulation procedure)	m³	231,92
		GEOTHERMAL BOREHOLE DRILLING **A- Drilling Borehole with Rotary Machine System** **Drilling geothermal borehole according to group 1 lithology definitions** (Slope debris, clay, marl, sand, gravel, block and all the alluviums with their lacustrine-terrestrial units, which are repeated successively).		
38.1640/A	**41.600.1201**	Drilling geothermal borehole between 7"-12" diameter according to group 1 lithology definitions (0-800 m capacity)	m	232,91
38.1640/B	**41.600.1202**	Drilling geothermal borehole between 7" - 12" diameter according to group 1 lithology definitions (0 - 2200 m capacity)	m	316,43
38.1641/A	**41.600.1203**	Drilling geothermal borehole between 12 ¼" - 14 ¾" diameter according to group 1 lithology definitions(0-800 m capacity)	m	306,05
38.1641/B	**41.600.1204**	Drilling geothermal borehole between 12 ¼" - 14 ¾" diameter according to group 1 lithology definitions(0 - 2200 m capacity)	m	383,21
38.1642/A	**41.600.1205**	Drilling geothermal borehole between 15" - 17 ½" diameter according to group 1 lithology definitions(0-800 m capacity)	m	378,58
38.1642/B	**41.600.1206**	Drilling geothermal borehole between 15" - 17 ½" diameter according to group 1 lithology definitions(0 - 2200 m capacity)	m	511,66
38.1643/A	**41.600.1207**	Drilling geothermal borehole between 18" - 22" diameter according to group 1 lithology definitions(0-800 m capacity)	m	490,44
38.1643/B	**41.600.1208**	Drilling geothermal borehole between 18" - 22" diameter according to group 1 lithology definitions(0 - 2200 m capacity)	m	623,83
38.1644/A	**41.600.1209**	Drilling geothermal borehole between 24" - 26" diameter according to group 1 lithology definitions(0-800 m capacity)	m	585,10
38.1644/B	**41.600.1210**	Drilling geothermal borehole between 24" - 26" diameter according to group 1 lithology definitions(0 - 2200 m capacity)	m	742,50
		Drilling geothermal borehole according to group 2 lithology definitions (All sedimentary rocks such as limestone, sandstone, conglomerate, claystone, flysch and rocks like tuff)		
38.1645/A	**41.600.1221**	Drilling geothermal borehole between 7"-12" diameter according to group 2 lithology definitions (0-800 m capacity)	m	383,63
38.1645/B	**41.600.1222**	Drilling geothermal borehole between 7" - 12" diameter according to group 2 lithology definitions (0 - 2200 m capacity)	m	527,66
38.1646/A	**41.600.1223**	Drilling geothermal borehole between 12 ¼" - 14 ¾" diameter according to group 2 lithology definitions(0-800 m capacity)	m	452,23
38.1646/B	**41.600.1224**	Drilling geothermal borehole between 12 ¼" - 14 ¾" diameter according to group 2 lithology definitions(0 - 2200 m capacity)	m	621,35

PREVIOUS ITEM NO	NEW ITEM NO	WORK NAME	UNIT	UNIT PRICE (TRY)
38.1647/A	**41.600.1225**	Drilling geothermal borehole between 15" - 17 ½" diameter according to group 2 lithology definitions(0-800 m capacity)	m	538,83
38.1647/B	**41.600.1226**	Drilling geothermal borehole between 15" - 17 ½" diameter according to group 2 lithology definitions(0 - 2200 m capacity)	m	732,11
38.1648/A	**41.600.1227**	Drilling geothermal borehole between 18" - 22" diameter according to group 2 lithology definitions(0-800 m capacity)	m	644,64
38.1648/B	**41.600.1228**	Drilling geothermal borehole between 18" - 22" diameter according to group 2 lithology definitions(0 - 2200 m capacity)	m	855,64
38.1649/A	**41.600.1229**	Drilling geothermal borehole between 24" - 26" diameter according to group 2 lithology definitions(0-800 m capacity)	m	735,14
38.1649/B	**41.600.1230**	Drilling geothermal borehole between 24" - 26" diameter according to group 2 lithology definitions(0 - 2200 m capacity)	m	969,15
		Drilling geothermal borehole according to group 3 lithology definitions (All metamorphic rocks such as marble, gneiss, schist, sleyt)		
38.1650/A	**41.600.1241**	Drilling geothermal borehole between 7"-12" diameter according to group 3 lithology definitions (0-800 m capacity)	m	413,18
38.1650/B	**41.600.1242**	Drilling geothermal borehole between 7" - 12" diameter according to group 3 lithology definitions (0 - 2200 m capacity)	m	569,45
38.1651/A	**41.600.1243**	Drilling geothermal borehole between 12 ¼" - 14 ¾" diameter according to group 3 lithology definitions(0-800 m capacity)	m	469,05
38.1651/B	**41.600.1244**	Drilling geothermal borehole between 12 ¼" - 14 ¾" diameter according to group 3 lithology definitions(0 - 2200 m capacity)	m	640,39
38.1652/A	**41.600.1245**	Drilling geothermal borehole between 15" - 17 ½" diameter according to group 3 lithology definitions(0-800 m capacity)	m	576,05
38.1652/B	**41.600.1246**	Drilling geothermal borehole between 15" - 17 ½" diameter according to group 3 lithology definitions(0 - 2200 m capacity)	m	780,28
38.1653/A	**41.600.1247**	Drilling geothermal borehole between 18" - 22" diameter according to group 3 lithology definitions(0-800 m capacity)	m	694,79
38.1653/B	**41.600.1248**	Drilling geothermal borehole between 18" - 22" diameter according to group 3 lithology definitions(0 - 2200 m capacity)	m	914,41
38.1654/A	**41.600.1249**	Drilling geothermal borehole between 24" - 26" diameter according to group 3 lithology definitions(0-800 m capacity)	m	795,85
38.1654/B	**41.600.1250**	Drilling geothermal borehole between 24" - 26" diameter according to group 3 lithology definitions(0 - 2200 m capacity)	m	1.038,64
		Drilling geothermal borehole according to group 4 lithology definition (All volcanic rocks, such as basalt, andesite, trachyte, dacite, trachyandesite, phonalit, tephrite, agglomerate)		
38.1655/A	**41.600.1261**	Drilling geothermal borehole between 7"-12" diameter according to group 4 lithology definitions (0-800 m capacity)	m	474,53
38.1655/B	**41.600.1262**	Drilling geothermal borehole between 7" - 12" diameter according to group 4 lithology definitions (0 - 2200 m capacity)	m	660,93
38.1656/A	**41.600.1263**	Drilling geothermal borehole between 12 ¼" - 14 ¾" diameter according to group 4 lithology definitions(0-800 m capacity)	m	556,28
38.1656/B	**41.600.1264**	Drilling geothermal borehole between 12 ¼" - 14 ¾" diameter according to group 4 lithology definitions(0 - 2200 m capacity)	m	759,28
38.1657/A	**41.600.1265**	Drilling geothermal borehole between 15" - 17 ½" diameter according to group 4 lithology definitions(0-800 m capacity)	m	650,81
38.1657/B	**41.600.1266**	Drilling geothermal borehole between 15" - 17 ½" diameter according to group 4 lithology definitions(0 - 2200 m capacity)	m	867,23
38.1658/A	**41.600.1267**	Drilling geothermal borehole between 18" - 22" diameter according to group 4 lithology definitions(0-800 m capacity)	m	749,76
38.1658/B	**41.600.1268**	Drilling geothermal borehole between 18" - 22" diameter according to group 4 lithology definitions(0 - 2200 m capacity)	m	997,14
38.1659/A	**41.600.1269**	Drilling geothermal borehole between 24" - 26" diameter according to group 4 lithology definitions(0-800 m capacity)	m	833,24
38.1659/B	**41.600.1270**	Drilling geothermal borehole between 24" - 26" diameter according to group 4 lithology definitions(0 - 2200 m capacity)	m	1.098,69
		Drilling geothermal borehole according to group 5 lithology definitions (All magmatic rocks such as granite, granadorite, diabase)		
38.1660/A	**41.600.1281**	Drilling geothermal borehole between 7"-12" diameter according to group 5 lithology definitions (0-800 m capacity)	m	633,53
38.1660/B	**41.600.1282**	Drilling geothermal borehole between 7" - 12" diameter according to group 5 lithology definitions (0 - 2200 m capacity)	m	877,81

PREVIOUS ITEM NO	NEW ITEM NO	WORK NAME	UNIT	UNIT PRICE (TRY)
38.1661/A	41.600.1283	Drilling geothermal borehole between 12 ¼" - 14 ¾" diameter according to group 5 lithology definitions(0-800 m capacity)	m	716,88
38.1661/B	41.600.1284	Drilling geothermal borehole between 12 ¼" - 14 ¾" diameter according to group 5 lithology definitions(0 - 2200 m capacity)	m	963,11
38.1662/A	41.600.1285	Drilling geothermal borehole between 15" - 17 ½" diameter according to group 5 lithology definitions(0-800 m capacity)	m	822,41
38.1662/B	41.600.1286	Drilling geothermal borehole between 15" - 17 ½" diameter according to group 5 lithology definitions(0 - 2200 m capacity)	m	1.072,21
38.1663/A	41.600.1287	Drilling geothermal borehole between 18" - 22" diameter according to group 5 lithology definitions(0-800 m capacity)	m	942,94
38.1663/B	41.600.1288	Drilling geothermal borehole between 18" - 22" diameter according to group 5 lithology definitions(0 - 2200 m capacity)	m	1.222,75
38.1664/A	41.600.1289	Drilling geothermal borehole between 24" - 26" diameter according to group 5 lithology definitions(0-800 m capacity)	m	1.037,43
38.1664/B	41.600.1290	Drilling geothermal borehole between 24" - 26" diameter according to group 5 lithology definitions(0 - 2200 m capacity)	m	1.330,65
		B- Hammer Drill with 0 - 800 m Capacity Machine		
		Drilling geothermal borehole according to group 2 lithology definitions (All sedimentary rocks such as limestone, sandstone, conglomerate, claystone, flysch and rocks like tuff)		
38.1670	41.600.1321	Drilling geothermal borehole between 6" - 8" diameter according to group 2 lithology definitions	m	264,01
38.1671	41.600.1322	Drilling geothermal borehole between 10" - 12 ¼" diameter according to group 2 lithology definitions	m	399,34
38.1672	41.600.1323	Drilling geothermal borehole between 13" - 15" diameter according to group 2 lithology definitions	m	607,08
38.1673	41.600.1324	Drilling geothermal borehole between 17 ½" diameter according to group 2 lithology definitions	m	854,14
		Drilling geothermal borehole according to group 3 lithology definitions (All metamorphic rocks such as marble, gneiss, schist, sleyt)		
38.1674	41.600.1325	Drilling geothermal borehole between 6" - 8" diameter according to group 3 lithology definitions	m	283,23
38.1675	41.600.1326	Drilling geothermal borehole between 10" - 12 ¼" diameter according to group 3 lithology definitions	m	431,48
38.1676	41.600.1327	Drilling geothermal borehole between 13" - 15" diameter according to group 3 lithology definitions	m	656,75
38.1677	41.600.1328	Drilling geothermal borehole between 17 ½" diameter according to group 3 lithology definitions	m	921,76
		Drilling geothermal borehole according to group 4 lithology definitions (All volcanic rocks, such as basalt, andesite, trachyte, dacite, trachyandesite, phonalit, tephrite, agglomerate)		
38.1678	41.600.1341	Drilling geothermal borehole between 6" - 8" diameter according to group 4 lithology definitions	m	302,45
38.1679	41.600.1342	Drilling geothermal borehole between 10" - 12 ¼" diameter according to group 4 lithology definitions	m	463,59
38.1680	41.600.1343	Drilling geothermal borehole between 13" - 15" diameter according to group 4 lithology definitions	m	706,44
38.1681	41.600.1344	Drilling geothermal borehole between 17 ½" diameter according to group 4 lithology definitions	m	989,40
		Drilling geothermal borehole according to group 5 lithology definitions (All magmatic rocks such as granite, granadorite, diabase)		
38.1682	41.600.1361	Drilling geothermal borehole between 6" - 8" diameter according to group 5 lithology definitions	m	321,66
38.1683	41.600.1362	Drilling geothermal borehole between 10" - 12 ¼" diameter according to group 5 lithology definitions	m	495,70
38.1684	41.600.1363	Drilling geothermal borehole between 13" - 15" diameter according to group 5 lithology definitions	m	756,13
38.1685	41.600.1364	Drilling geothermal borehole between 17 ½" diameter according to group 5 lithology definitions	m	1.057,04
38.1690	41.600.1401	Reinforcing pipe landing cost	m	53,74
38.1691	41.600.1402	Well development	pcs	5.386,75
38.1692	41.600.1421	Taking core samples	m	341,44
38.1693	41.600.1422	Well landing / extracting procedure of core tube	m	9,49
38.1694A	41.600.1441	Mounting - dismounting well head valve with 250 mm diameter (Mounting-dismounting, valve, 2 pieces flange and seal)	pcs	3.839,68
38.1694B	41.600.1442	Mounting - dismounting well head valve with 300 mm diameter (Mounting-dismounting, valve, 2 pieces flange and seal)	pcs	5.028,59
38.1694C	41.600.1443	Mounting - dismounting well head valve with 350 mm diameter (Mounting-dismounting, valve, 2 pieces flange and seal)	pcs	6.240,11

PREVIOUS ITEM NO	NEW ITEM NO	WORK NAME	UNIT	UNIT PRICE (TRY)
		GEOTHERMAL WELL TEST AND METERING WORKS **(Contractor profit included.)**		
38.1701	**41.700.1101**	Well diameter checking.	pcs	268,56
38.1702	**41.700.1102**	Taking static temperature and pressure profile values.	pcs	785,18
38.1703	**41.700.1103**	Taking dynamic temperature and pressure profile values.	pcs	785,18
38.1704	**41.700.1121**	Making pressure decreasing test with single production well (Deep well pump and power included)	day	4.452,20
38.1706	**41.700.1123**	Making pressure decreasing test with single production well (Deep well without pump in the pressure well)	day	1.751,00
38.1707	**41.700.1124**	Making pressure increasing test with single production well	day	1.751,00
38.1708	**41.700.1141**	Making interference test with two observation and single production well (Deep well pump and power included)	day	5.450,65
38.1710	**41.700.1143**	Making interference test with two observation and single production well (Deep well without pump in the pressure well)	day	2.525,95
38.1711	**41.700.1161**	Making multiple water flow injectivity - pressure increasing test	h	156,05
38.1712	**41.700.1162**	Making imjectivity pressure dropping test	h	102,48
38.1713	**41.700.1163**	Taking temperature profile during water injection	pcs	1.231,98
38.1714	**41.700.1164**	Making well inhibitor injection to well	h	14,33
38.1715	**41.700.1181**	Mounting and dismounting geothermal deep weel pump	pcs	1.458,45
		Transportation Costs		
38.0116	**40.115.1516**	Transporting geohermal test and metering mechine vehicles and equipment (Electronic pressure - temperature measuring and recording equipment, battery and other equipment)	km	27,90
38.0117	**40.115.1517**	Transporting geohermal test and metering mechine vehicles and equipment, geothermal deep well pump and equipment and generator and equipment	km	74,50
38.0119	**40.115.1519**	Transporting geohermal deep well pump and equipment	km	26,26
38.0120	**40.115.1520**	Transporting geohermal test and metering materials and equipment (Electronic pressure - temperature measuring and recording device, battery)	km	14,55