



ILBANK
CONSTRUCTIVE POWER OF TURKEY

İLLER BANKASI A.Ş.
INVESTMENT COORDINATION DEPARTMENT

2019
UNIT PRICES OF
DIGITAL BASEMAP PLOTTING 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 published 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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DESCRIPTIONS:

- 1- Incase where there is discrepancy with unit prices in accounts where these unit prices are used and unit prices given in unit price chart; prices given in unit price chart shall be taken as basis.
- 2- Values Added Tax (VAT) is not included with market prices used for creating unit prices given in unit price chart and to these unit prices.
- 3- Even if the correction list for printing and error of facts in not included within the Unit Price Chart; these mistakes shall be deemed to have corrected in compliance with the correction list.
- 4- Materials given in year 2019 market price and unit price list shall conform to our Ministry's relevant Technical Specifications and TSE standards and ISO certificates.
- 5- Chart illustrating new names those modified in line with standards for the tools given in YEAR 2019 market price line is also valid for Year 2019 Unit Prices in terms of dimension and tariff.
- 6- Unit prices given in this unit price chart are valid as of 01.01.2019.



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UNIT PRICES FOR DIGITAL PHOTOGRAMMETRIC BASE MAP PLOTTING ACCORDING TO RESIDENTIAL AND UNINHABITED HECTARES

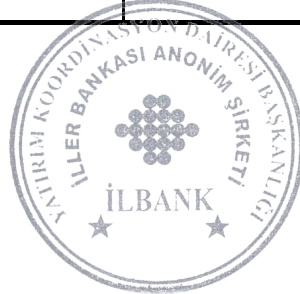
(20% contractor profit and general expenses included)
(GEODESIC ACTIVITIES, FLIGHT MOVEMENT AND PHOTO SHOOTING EXCLUDED)

Number of Buildings in 1 Hectare	Map plotting and original		
	Sketching (1 / 1000)	Original (1 / 2000)	Sketching(1 / 5000)
Uninhabited	28,45	10,48	7,63
Habited 1	32,38	10,48	7,63
Habited 2	37,76	11,33	8,11
Habited 3	43,15	12,19	8,58
Habited 4	48,53	13,04	9,06
Habited 5	53,92	13,90	9,53
Habited 6	59,30	14,75	10,01
Habited 7	64,69	15,60	10,48
Habited 8	70,07	16,46	10,96
Habited 9	75,46	17,31	11,43
Habited 10	80,84	18,17	11,91
Habited 11	86,23	19,02	12,38
Habited 12	88,52	19,61	12,66
Habited 13	90,82	20,21	12,93
Habited 14	93,11	20,80	13,21
Habited 15	95,40	21,39	13,49
Habited 16	97,69	21,98	13,76
Habited 17	99,99	22,58	14,04
Habited 18	102,28	23,17	14,32
Habited 19	104,57	23,76	14,59
Habited 20	106,87	24,36	14,87
Habited 21	109,16	24,95	15,15
Habited 22	111,45	25,54	15,42
Habited 23	113,75	26,14	15,70
Habited 24	116,04	26,73	15,98
Habited 25	118,33	27,32	16,25
Habited 26	120,62	27,91	16,53
Habited 27	122,92	28,51	16,81
Habited 28	125,21	29,10	17,08
Habited 29	127,50	29,69	17,36
Habited 30	129,80	30,29	17,64
Habited 31	132,09	30,88	17,91
Habited 32	134,38	31,47	18,19
Habited 33	136,67	32,06	18,47
Habited 34	138,97	32,66	18,74
Habited 35	141,26	33,25	19,02
Habited 36	143,59	33,69	19,27

**UNIT PRICES FOR DIGITAL PHOTOGRAMMETRIC BASE MAP PLOTTING
ACCORDING TO RESIDENTIAL AND UNINHABITED HECTARES**

(20% contractor profit and general expenses included)
(GEODESIC ACTIVITIES, FLIGHT MOVEMENT AND PHOTO SHOOTING EXCLUDED)

Number of Buildings in 1 Hectare	Map plotting and original		
	Sketching (1 / 1000)	Original (1 / 2000)	Sketching(1 / 5000)
Habited 37	145,91	34,12	19,51
Habited 38	148,24	34,56	19,76
Habited 39	150,57	34,99	20,00
Habited 40	152,89	35,43	20,25
Habited 41	155,22	35,87	20,50
Habited 42	157,55	36,30	20,74
Habited 43	159,87	36,74	20,99
Habited 44	162,20	37,17	21,23
Habited 45	164,53	37,61	21,48
Habited 46	166,85	38,05	21,73
Habited 47	169,18	38,48	21,97
Habited 48	171,50	38,92	22,22
Habited 49	173,83	39,35	22,46
Habited 50	176,16	39,79	22,71
Habited 51	178,48	40,23	22,96
Habited 52	180,81	40,66	23,20
Habited 53	183,14	41,10	23,45
Habited 54	185,46	41,53	23,69
Habited 55	187,79	41,97	23,94
Habited 56	190,12	42,41	24,19
Habited 57	192,44	42,84	24,43
Habited 58	194,77	43,28	24,68
Habited 59	197,10	43,71	24,92
Habited 60	199,42	44,15	25,17
Habited 75	234,32	50,69	28,86



PRICE FOR PHOTOGRAMMETRIC MAP PLOTTING PRICES (YEAR 2019)

(Contractor profit and VAT is not included)

(This page is taken from General Directorate of Mapping's web site - www.hgk.gov.tr)

GEODESIC ACTIVITIES

Point Class	Description	Unit	Cost (TRY)
C1 Grade (*)	Bent bar (Floored)	pcs	4.616,08
C2 Grade (*)	Bent bar (Floored)	pcs	3.104,91
C3 Grade Location Control Point (*)	Concrete (Floored)	pcs	998,95
Photogrammetric Triangulation Point (*), (**)	Concrete and air mark	pcs	480,65
Primary Benchmark Point (AN) (*)	Concrete (Metering, calculation included)	pcs	540,13

PHOTO SHOOTING WITH DIGITAL AIR CAMERA

GSD (Ground Sampling Interval) (cm)	Minimum Site (km ²)	Advanced Embarking	Cost (TRY / km ²)
For a Specific Area			
10	100	%70	170,74
15	200	%70	124,00
20	200	%70	77,90
25	400	%70	65,43
30	500	%70	54,21
Through the Route			
10	100	%70	100,94
15	150	%70	90,35
20	150	%70	80,99
25	175	%70	77,90
30	175	%70	74,78

(*) Prices cover facility, metering and account works.

(**) Photogrammetric triangulation point coordinate are obtained from photogrammetric metering and calculations.

DIGITIZING 1 PIECE PHOTOGRAPH (23 cm x 23 cm) ON ANALOG AIR FILM ROLL WITH PHOTOGRAMMETRIC SCANNERS

Pixel Dimension (Micron)	Type	Cost (TRY)
20 (included) and lower resolution	Black White	6,85
20 (excluded) - 14 (included)	Black White	9,97
14 (excluded) - 7 (included)	Black White	13,09
20 (included) and lower resolution	Colored	8,10
20 (excluded) - 14 (included)	Colored	29,30
14 (excluded) - 7 (included)	Colored	30,88

PRICE FOR PHOTOGRAMMETRIC MAP PLOTTING PRICES (YEAR 2019)

(Contractor profit and VAT is not included)

(This page is taken from General Directorate of Mapping's web site - www.hgk.gov.tr)

PHOTOGRAMMETRIC TRIANGULATION PROCEDURES AND ORIENTATION PARAMETERS (X_0 , Y_0 , Z_0 , ω , ϕ , K)

Unit	Cost (TL / pcs.)
Photograph	7,47

VALUATION

Map Scale	Photograph Scale	Unit	Cost (TRY / km ²)
1/500 - 1/5000	1/3000 - 1/16000	Map Section	3.802,00
1/1000 - 1/2000	1/4000 - 1/8000	km / tul	3.802,00
1/5000 (Survey)	1/16000	Map Section	2.102,25
1/10000 (Survey)	1/25000	Map Section	2.793,58

DIGITAL ORTHOPHOTOGRAPH PRODUCTION

Type	Unit	Cost (TRY / km ²)
Digital Orthophoto Image	Map Section (1/500 - 1/5000)	553,42
Digital Orthophoto Image (In addition, if desired after digital vector data generation)	Map Section (1/500 - 1/5000)	26,84

PRINTING AND ENLARGING AIR PHOTOS

Type	Length: (cm)	Cost (TRY)
Card Printing with Air photo (Black white)	24 x 24)	31,17
Card Printing with Air photo (Colored)	24 x 24)	34,89

ARCHIVE COPY DIGITAL AIR PHOTOS AND ORTHOPHOTO IMAGES

Type	Format	Unit	Cost (TRY)
Color Air Photo	3 Bands - RGB	pcs	7,20
Infrared Air Photo	3 Bands - CIR	pcs	7,20
Colored and Infrared Air Photo	4 Bands - RGB+IR	pcs	9,32
Shoot with Analog Camera H.F.	S/B, Colored and Infrared	pcs	10,17
Archive Orthophoto Images (30 cm)	Jpeg2000 / Geotiff / MrSid	km ²	5,51

PRICE FOR PHOTOGRAMMETRIC MAP PLOTTING PRICES (YEAR 2019)

(Contractor profit and VAT is not included)

(This page is taken from General Directorate of Mapping's web site - www.hgk.gov.tr)

TUSAGA - ACTIVE SYSTEM USE

Service Type	Data Type	Description	Price (VAT included) (TRY)
First Subscription	---	For once only	150,00
RTK	Network - RTK	Monthly	100,00
		Annual	750,00
	Network - DGPS	Monthly	50,00
		Annual	375,00
Static Data	RINEX 1 Sn ⁽¹⁾	Station / hour	0,50
	RINEX 30 Sec	Free of charge on internet	

⁽¹⁾ For public institutions and organizations and universities, a discount of 75% is applied in case of application of 1-second static data with the relevant senior manager letter.

MAP SECTION TRAVEL, CANOPY CUT AND COMPLETING

(It is taken from no. 7301 unit price analysis in our Bank's Digital Base Map Unit Price Chart)

Work Name	Unit	Cost (TRY / hectare)
Map section	h	5,92
Completion	h	17,53
Metering canopy cuts	h	20,73
Plotting	h	11,93
Total	h	56,11



NOTE ON PHOTOGRAMMETRIC MAP PLOTTING WORKS:

(This page is taken from General Directorate of Mapping's web site - www.hgk.gov.tr)

Photo Shooting with Digital Air Camera:

- 1- Transfer fee from Ankara to the project area (round trip separately and only once) is calculated by multiplying the distance of the bird flight by 1 33.00 TRY for 1 (One) nautical mile (Hourly flight rate for air photo shoots to be realized by General Directorate of Photography is 10.231,60 TRY) and shall be added to the fee in total.
- 2- Jobs under the minimum field are calculated on the minimum field.
- 3- A 10% discount is applied by the General Directorate of Land Registry and Cadastre on the price calculated as 10 (ten) times of the minimum area and on the aerial photographs of the larger areas or routes.
- 4- Requests different from the values determined in the location sampling range are priced according to the nearest place sampling interval.
- 5- For standard aerial photo shooting, a 30% width overlap ratio between columns is used. If 60% of the transverse overlap rate is desired, 1.5 (one and a half) coats of the above fees are applied.
- 6- These prices include flight planning, GNSS / IMU metering processing and media recording (excluding media unit).

Digitizing 1 Piece Photograph (23 cm x 23 cm) on Analog Air Film Roll With Photogrammetric Scanners:

Description on digitizing 1 Piece Photograph (23 cm x 23 cm) on analog air film roll with photogrammetric scanners:

- 1) Information are loaded on DVD/CD-ROM.
- 2) For each roll, more than 50 photos on the same roll and a 10% discount for the entire roll shall be applied.

Photogrammetric Triangulation Procedures and Orientation Parameters

(X_0 , Y_0 , Z_0 , ω , ϕ , K):

- 1- 10% discount is applied for the orientation parameters in the archive.
- 2- In the photogrammetric triangulation operations, except for the routing parameters in the archive, the facility, measurements and calculations of the ground control points are met by the applicant.

Valuation:

- 1- The route evaluation includes 250 m right and 250 m left of the route.
- 2- Prices are determined according to half residential areas. In the valuation works related to residential and uninhabited areas, prices will be determined according to the detail density.

Archive Copy Digital Air Photos and Orthophoto Images

1- Archival orthophoto image (cost of orthophoto images produced from photographs lined with analog or digital aerial cameras); Archives in 30 cm ground sampling range (YÖA) are given for orthophotos. The cost of orthophotos with higher resolution than this is calculated by the following formula.

$$\text{Cost} = (30 / \text{YÖA})^2 \times 5,51$$

- 2- Digital orthophoto images will be given on media media which will be provided by the demand owner according to the size of the requested area. Orthophoto image prices will be calculated on a minimum of 20 km².
- 3- Orthophoto images generated from aerial photographs taken by analogue weather cameras by the General Directorate of Mapping, requests in photography basis costs of orthophotos shall be calculated according to formula specified under 1st article.

NOTE ON PHOTOGRAMMETRIC MAP PLOTTING WORKS:

(This page is taken from General Directorate of Mapping's web site - www.hgk.gov.tr)

4- In the following amounts of archive orthophoto requests, the discounts specified in the table will be applied.

<u>Requested Area (km²)</u>	<u>Discount rate</u>
14.000 ≤ Area < 56.000	%10
56.000 ≤ Area < 224.000	%20
224.000 ≤ Area < 672.000	%30
672.000 ≤ Area	%40

5- 20% will be added to the prices if a product is requested that is obtained from the re-raw images in different qualities from the archive aerial photographs and orthophoto images.

6- For archive copy digital aerial photo or orthophoto image requests;

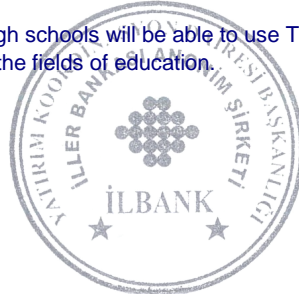
- 25% of the non-discounted unit price listed on the list is applied to the public institutions and organizations conducting operative activities for direct national security.
- In case of written requests to be made by the Rector or Dean / Principal Director for education and research purposes by the Higher Education Institutions, 50% of the non-discounted unit price specified in the list shall be applied.

Internet Services:

Pricing strategy related to the presentation with the internet services will be provided by the manufacturer providing the service.

3- Miscellaneous:

- Profit and VAT is not included to all service referred above.
- For the services that are not included in this list, the General Directorate of Mapping and the annual prices determined by the General Directorate of Land Registry and Cadastre shall be used.
- The royalties and quotations of the products in the list are determined by the manufacturer.
- TUSAGA - Prices and exceptions related to the use of the active system are determined by the TUSAGA - Active Executive Board. All deductions, VAT, other tax and duties are included to TUSAGA - Active prices.
- Universities and vocational high schools will be able to use TUGASA - Active - Network - RTK service free of charge only in the fields of education.



**UNIT PRICES FOR RESIDENTIAL AND UNINHABITED HECTARE
ACCORDING TO DIGITAL BASEMAP PLOTTING (YEAR 2019)**

(20% contractor profit and general expenses included)

Number of Buildings in 1 Hectare	Map plotting and original		
	Sketching (1 / 1000)	Original (1 / 2000)	Sketching(1 / 5000)
Uninhabited	659,60	10,48	7,63
Habited 1	993,08	10,48	7,63
Habited 2	1.085,13	11,33	8,11
Habited 3	1.177,17	12,19	8,58
Habited 4	1.269,22	13,04	9,06
Habited 5	1.361,26	13,90	9,53
Habited 6	1.453,31	14,75	10,01
Habited 7	1.545,36	15,60	10,48
Habited 8	1.637,40	16,46	10,96
Habited 9	1.729,45	17,31	11,43
Habited 10	1.821,49	18,17	11,91
Habited 11	1.913,54	19,02	12,38
Habited 12	1.990,36	19,61	12,66
Habited 13	2.067,18	20,21	12,93
Habited 14	2.144,00	20,80	13,21
Habited 15	2.220,82	21,39	13,49
Habited 16	2.297,64	21,98	13,76
Habited 17	2.374,46	22,58	14,04
Habited 18	2.451,28	23,17	14,32
Habited 19	2.528,10	23,76	14,59
Habited 20	2.604,92	24,36	14,87
Habited 21	2.681,74	24,95	15,15
Habited 22	2.758,56	25,54	15,42
Habited 23	2.835,38	26,14	15,70
Habited 24	2.912,20	26,73	15,98
Habited 25	2.989,02	27,32	16,25
Habited 26	3.065,84	27,91	16,53
Habited 27	3.142,66	28,51	16,81
Habited 28	3.219,48	29,10	17,08
Habited 29	3.296,30	29,69	17,36
Habited 30	3.373,12	30,29	17,64
Habited 31	3.449,94	30,88	17,91
Habited 32	3.526,76	31,47	18,19
Habited 33	3.603,58	32,06	18,47
Habited 34	3.680,40	32,66	18,74
Habited 35	3.757,22	33,25	19,02
Habited 36	3.849,00	33,69	19,27

**UNIT PRICES FOR RESIDENTIAL AND UNINHABITED HECTARE
ACCORDING TO DIGITAL BASEMAP PLOTTING (YEAR 2019)**

(20% contractor profit and general expenses included)

Number of Buildings in 1 Hectare	Map plotting and original		
	Sketching (1 / 1000)	Original (1 / 2000)	Sketching(1 / 5000)
Habited 37	3.940,77	34,12	19,51
Habited 38	4.032,55	34,56	19,76
Habited 39	4.124,32	34,99	20,00
Habited 40	4.216,10	35,43	20,25
Habited 41	4.307,87	35,87	20,50
Habited 42	4.399,65	36,30	20,74
Habited 43	4.491,42	36,74	20,99
Habited 44	4.583,20	37,17	21,23
Habited 45	4.674,98	37,61	21,48
Habited 46	4.766,75	38,05	21,73
Habited 47	4.858,53	38,48	21,97
Habited 48	4.950,30	38,92	22,22
Habited 49	5.042,08	39,35	22,46
Habited 50	5.133,85	39,79	22,71
Habited 51	5.225,63	40,23	22,96
Habited 52	5.317,40	40,66	23,20
Habited 53	5.409,18	41,10	23,45
Habited 54	5.500,95	41,53	23,69
Habited 55	5.592,73	41,97	23,94
Habited 56	5.684,51	42,41	24,19
Habited 57	5.776,28	42,84	24,43
Habited 58	5.868,06	43,28	24,68
Habited 59	5.959,83	43,71	24,92
Habited 60	6.051,61	44,15	25,17
Habited 75	7.428,24	50,69	28,86

NOTE:

1- Land grouping based on approximate costs shall be done by the staff of Directorate General by investigating 1/25000 scaled topographical maps with limit sketch and land survey reports prepared by Reigonal Directorate staff.

2- Approximate cost shall be calculated by selecting

1st Group land coefficient: 1,00

2nd Group land coefficient: 0,93

3rd Group land group coefficient: 0,86

4th Group land Coefficient : 0,80.



UNIT PRICES APPLIED BY ARTICLE 18 (YEAR 2019)

(20% contractor profit and general expenses included)

Number of Buildings in 1 Hectare	Map plotting and original	Number of Buildings in 1 Hectare	Map plotting and original
	Sketching (1 / 1000)		Sketching (1 / 1000)
	Unit Price (TRY)		Unit Price (TRY)
Uninhabited	8.588,60	24 Buildings	22.805,29
1 Building	8.588,60	25 Buildings	23.318,82
2 Building	9.342,68	27 Buildings	24.345,89
3 Building	10.096,75	28 Buildings	24.859,42
4 Building	10.850,83	29 Buildings	25.372,95
5 Building	11.604,90	30 Buildings	25.886,49
6 Building	12.358,98	34 Buildings	27.940,62
7 Building	13.113,06	35 Buildings	28.454,15
8 Building	13.867,13	36 Buildings	28.831,63
9 Building	14.621,21	37 Buildings	29.209,12
10 Building	15.375,28	38 Buildings	29.586,60
11 Building	16.129,36	39 Buildings	29.964,09
12 Building	16.642,89	40 Buildings	30.341,57
13 Building	17.156,43	41 Buildings	30.719,05
14 Building	17.669,96	42 Buildings	31.096,54
15 Building	18.183,49	43 Buildings	31.474,02
16 Building	18.697,02	44 Buildings	31.851,51
17 Building	19.210,56	45 Buildings	32.228,99
18 Building	19.724,09	46 Buildings	32.606,47
19 Building	20.237,62	47 Buildings	32.983,96
20 Building	20.751,16	48 Buildings	33.361,44
21 Building	21.264,69	49 Buildings	33.738,93
22 Building	21.778,22	50 Buildings	34.116,41
23 Building	22.291,76	75 Buildings	43.553,51

Note: Triangulation polygon and offset unit prices to be installed is not included within the unit prices applied in Article 18.

UNIT PRICES FOR ROAD DIRECTION PLANS APPLICATION AND PLOTTING WIDTH- LENGTH SECTION (YEAR 2019)

(20% contractor profit and general expenses included)

Work Name	Unit Price (TRY)
Application and project total survey unit for 1 km on flat roads (On uninhabited land)	9.639,44
Application and project total survey unit for 1 km on curved roads (On uninhabited land)	15.995,47
Application and project total survey unit for 1 km on flat roads (On residential land)	8.498,92
Application and project total survey unit for 1 km on curved roads (On residential land)	16.321,06

PREVIOUS ITEM NO	NEW ITEM NO	WORK NAME	UNIT	UNIT PRICE (TRY)
TRIANGULATION WORKS				
1002	42.100.1101	Bent bar floor installation materials	pcs	502,78
1004	42.100.1102	Making, watering, painting bent bar floor installation landmarking and control	pcs	1.425,37
1103	42.100.1103	400 doses manual concreting	m³	421,50
1105	42.100.1104	Square control calculations for series triangulation point, supplying triangulation canvas	pcs	34,00
1106	42.100.1105	Coordinate conversion calculation (Trinangulation- polygon manual data entry)	point	1,57
1107	42.100.1106	Preparing concrete moulds for making map concrete marks in series	point	65,93
1108	42.100.1107	Triangulation facility material to be made on roof or tree (Balise)	pcs	44,73
1109	42.100.1108	Coordinate conversion calculation (Triangulation, polygon and detail point; data recorded in computer environment)	point	0,04
1110	42.100.1109	A bent bar's installation workmanship and landmark sketches	point	1.184,70
1125	42.100.1131	Site selection work for a triangulation point	point	155,14
1139	42.100.1132	Floor installation material of a triangulation or benchmark	point	91,24
1140	42.100.1133	Floor installation material of a triangulation or benchmark (Concrete) point, preparing benchmark and sketch	point	328,32
1155	42.100.1151	Angle and margin metering study of a series of triangulation	point	285,31
1157	42.100.1152	A series of triangulation (Concrete - elevated)	point	1.124,29
1158	42.100.1153	Series triangulation (Triangulation bronze installation; water tower, minaret, building, etc.)	point	748,22
1159	42.100.1154	Using a series of triangulation as benchmark (Concrete)	point	1.639,25
1161	42.100.1155	A series of triangulation (Concrete - elevation free)	point	1.305,53
1162	42.100.1156	Series triangulation (Triangulation bronze - elevated)	point	941,48
1163	42.100.1157	Series triangulation (Triangulation bronze) when used as benchmark	point	1.231,58
1165	42.100.1158	Series triangulation (Facility free - elevation free)	point	434,88
1166	42.100.1159	Series triangulation (Facility free - elevated)	point	565,48
1167	42.100.1160	When series triangulation used as benchmark (Facility free)	point	855,58
1170	42.100.1171	Floor landing facility, metering and calculation (Three-point)	pcs	416,10
1173	42.100.1172	Searching for an old and triangulation point's underground fuse without visible floor mark with observation and calculation	point	1.173,94
1171	40.110.2001	Hourly operating price for electro-optical distance measuring equipment	h	68,37
1199	40.110.2011	Hourly operating price of triangulation balancing program	h	82,06
1300	40.110.2012	Hourly operating price of GPS balancing program	h	5,69
1301	40.110.2004	Hourly operating price for GPS set	h	85,46
1302	40.110.2008	Hourly operating price of the computer	h	3,76
C1, C2, C3 GRADE TRIANGULATION WORKS				
1500	42.110.1101	Site selection for C1 grade triangulation points	point	341,28
1501	42.110.1102	Site selection for C2 grade triangulation points	point	127,99
1502	42.110.1111	Metering and calculation for C1 grade triangulation points	point	1.738,28
1503	42.110.1112	Metering and calculation for C2 grade triangulation points	point	719,06
1504	42.110.1113	Metering and calculation for C3 grade triangulation points	point	345,34
1505	42.110.1121	Searching TUTGA and C1 grade triangulation points	point	109,61
1506	42.110.1122	Searching C2 grade triangulation points	point	73,07
1507	42.110.1123	Searching C3 grade triangulation points	point	36,54
1521	42.110.1201	C1 grade triangulation points (Bent bar)	point	4.880,39
1522	42.110.1202	C1 grade triangulation points (Bent bar - geoid anchor)	point	5.111,20
1523	42.110.1203	C1 grade triangulation points (Bent bar- primary benchmark)	point	5.208,41
1524	42.110.1204	C1 grade triangulation points (Bent bar- primary benchmark - geoid anchor)	point	5.226,86
1525	42.110.1205	C1 grade triangulation points (Bent bar - primary triangulation point)	point	5.138,28
1526	42.110.1206	C1 grade triangulation points (Bent bar- intermediary benchmark - geoid anchor)	point	5.156,74
1527	42.110.1207	C1 grade triangulation points (Bent bar- auxiliary benchmark)	point	5.065,80
1528	42.110.1251	C1 grade triangulation points (Facility free)	point	2.223,17
1529	42.110.1252	C1 grade triangulation points (Facility free - geoid anchor)	point	2.453,98

PREVIOUS ITEM NO	NEW ITEM NO	WORK NAME	UNIT	UNIT PRICE (TRY)
1530	42.110.1253	C1 grade triangulation points (Facility free - primary benchmark - geoid anchor)	point	2.569,64
1531	42.110.1254	C1 grade triangulation points (Facility free - primary benchmark)	point	2.551,19
1532	42.110.1255	C1 grade triangulation points (Facility free - intermediary benchmark)	point	2.481,06
1533	42.110.1256	C1 grade triangulation points (Facility free - intermediary benchmark - geoid anchor)	point	2.499,52
1534	42.110.1257	C1 grade triangulation points (Facility free - auxiliary benchmark)	point	2.408,58
1535	42.110.1301	C2 grade triangulation points (Bent bar)	point	3.401,38
1536	42.110.1302	C2 grade triangulation points (Bent bar - geoid anchor)	point	3.632,18
1537	42.110.1303	C2 grade triangulation points (Bent bar- primary benchmark - geoid anchor)	point	3.747,85
1538	42.110.1304	C2 grade triangulation points (Bent bar- primary benchmark)	point	3.729,40
1539	42.110.1305	C2 grade triangulation points (Bent bar- intermediary benchmark - geoid anchor)	point	3.677,72
1540	42.110.1306	C2 grade triangulation points (Bent bar - primary triangulation point)	point	3.659,27
1541	42.110.1307	C2 grade triangulation points (Bent bar- auxiliary benchmark)	point	3.586,79
1542	42.110.1351	C2 grade triangulation points (Facility free)	point	956,26
1543	42.110.1352	C2 grade triangulation points (Facility free - geoid anchor)	point	1.187,06
1544	42.110.1353	C2 grade triangulation points (Facility free - primary benchmark - geoid anchor)	point	1.302,73
1545	42.110.1354	C2 grade triangulation points (Facility free - primary benchmark)	point	1.284,28
1546	42.110.1355	C2 grade triangulation points (Facility free - intermediary benchmark)	point	1.214,15
1547	42.110.1356	C2 grade triangulation points (Facility free - intermediary benchmark - geoid anchor)	point	1.232,60
1548	42.110.1357	C2 grade triangulation points (Facility free - auxiliary benchmark)	point	1.141,67
1549	42.110.1401	C3 grade triangulation points (Concrete)	point	1.109,75
1550	42.110.1402	C3 grade triangulation points (Concrete - geoid anchor)	point	1.128,20
1551	42.110.1403	C3 grade triangulation points (Concrete - primary benchmark)	point	1.437,77
1552	42.110.1404	C3 grade triangulation points (Concrete - intermediary benchmark)	point	1.367,64
1553	42.110.1405	C3 grade triangulation points (Concrete - auxiliary benchmark)	point	1.295,16
1554	42.110.1421	C3 grade triangulation points (Triangulation bronze)	point	777,30
1555	42.110.1422	C3 grade triangulation points (Triangulation bronze - main benchmark)	point	1.105,32
1556	42.110.1423	C3 grade triangulation points (Triangulation bronze - intermediary benchmark)	point	1.035,19
1557	42.110.1424	C3 grade triangulation points (Triangulation bronze - auxiliary benchmark)	point	962,71
1558	42.110.1425	C3 grade triangulation points (Triangulation bronze - geoid anchor)	point	795,76
1559	42.110.1451	C3 grade triangulation points unit (Facility free)	point	463,96
1560	42.110.1452	C3 grade triangulation points (Facility free - primary benchmark)	point	791,98
1561	42.110.1453	C3 grade triangulation points (Facility free - intermediary benchmark)	point	721,85
1562	42.110.1454	C3 grade triangulation points (Facility free - auxiliary benchmark)	point	649,37
1563	42.110.1455	C3 grade triangulation points (Facility free - geoid anchor)	point	482,41
1564	42.110.1501	C3 grade triangulation points (Concrete) (Primary benchmark - geoid anchor)	point	1.456,22
1565	42.110.1502	C3 grade triangulation points (Concrete - intermediary benchmark - geoid anchor)	point	1.386,10
1566	42.110.1503	C3 grade triangulation points (Benchmark bronze - primary benchmark - geoid anchor)	point	1.123,78
1567	42.110.1504	C3 grade triangulation points (Triangulation bronze - intermediary benchmark - geoid anchor)	point	1.053,65
1568	42.110.1505	C3 grade triangulation points (Facility free - primary benchmark - geoid anchor)	point	810,43
1569	42.110.1506	C3 grade triangulation points (Facility free - intermediary benchmark - geoid anchor)	point	740,30
POLYGON (C4) WORKS				
2001	42.120.1101	Site selection work for a polygon point	point	33,36
2002	42.120.1102	A polygon point iron pipe	point	7,43
2003	42.120.1103	A polygon point iron nail	point	14,42
2008	42.120.1104	Angle and margin measuring of a polygon point	point	39,53
2010	42.120.1105	Coordinate calculation for a polygon point	point	6,55
2011	42.120.1106	Writing coordinate abstracts of a polygon recording on polygon canvas	point	0,95
2401	42.120.1201	A C4 grade polygon point (Concrete - primary benchmark, on a untenantable site)	point	758,96
2402	42.120.1202	A C4 grade polygon point (Concrete - intermediary benchmark, on a untenantable site)	point	688,84

PREVIOUS ITEM NO	NEW ITEM NO	WORK NAME	UNIT	UNIT PRICE (TRY)
2403	42.120.1203	A C4 grade polygon point (Concrete - auxiliary benchmark, on a untenantable site)	point	616,36
2406	42.120.1251	A C4 grade polygon point (Triangulation bronze - primary banchmark, on a habitable site)	point	580,38
2407	42.120.1252	A C4 grade polygon point (Triangulation bronze - intermediary benchmark point, on a habitable site)	point	510,25
2408	42.120.1253	A C4 grade polygon point (Triangulation bronze - auxiliary benchmark, on a habitable site)	point	437,77
2411	42.120.1301	A C4 grade polygon point (Facility free - primary benchmark)	point	421,97
2412	42.120.1302	A C4 grade polygon point (Facility free - intermediary benchmark)	point	351,84
2413	42.120.1303	A C4 grade polygon point (Facility free - auxiliary benchmark)	point	279,36
2005	42.130.1101	Floor installation material of a polygon on an untenantable site	point	22,21
2006	42.130.1102	Floor installation of a polygon on an habitable site landmark and sketch	point	53,97
2007	42.130.1103	Floor installation of a polygon on an untenantable site landmark and sketch	point	131,96
2012	42.130.1104	polygon point with an available facility (Nail or pipe on a habitable site)	point	27,76
2013	42.130.1105	Searching an old polygon according to the dimensions in landmark sketch control and fixing its place according to landmark sizes if its facility is available.	point	26,51
2014	42.130.1106	Fixing it place in a controllable manner by metering angle and margin from two points in sides of a point according to previous angle and margin value	point	76,80
2015	42.130.1107	A polygon point with iron nail elevated and with facility. (On a habitable site)	point	205,69
2016	42.130.1108	A polygon point with pipe facility and elevated (On habitable site)	point	197,30
2017	42.130.1109	A polygon point with concrete elevation (On untenantable site)	point	325,09
2018	42.130.1110	A polygon or triangulation iron landmark	point	3,37
2023	42.130.1111	Polygon point with an available facility (Concrete on a untenantable site)	point	33,47
2024	42.130.1112	Landmark and sketch of polygon on a habitable site	point	37,19
2025	42.130.1113	Landmark and sketch of polygon on a untenantable site	point	30,33
2027	42.130.1114	Polygon for route connection (Facility free - coordinate free - elevation free)	point	32,95
POLYGON (C4) WORKS (WITH GPS)				
2215	42.140.1101	Polygon - GPS (Iron nail)	point	179,03
2216	42.140.1102	Polygon - GPS (Pipe)	point	170,64
2217	42.140.1103	Polygon - GPS (Concrete)	point	281,96
2212	42.140.1104	Polygon - GPS (Facility free- concrete, nail or pipe)	point	32,74
2028	42.140.1105	Metering and calculation of a polygon with GPS	point	47,44
2404	42.140.1201	A C4 grade polygon point (Concrete - primary benchmark) (Geoid anchor) (On a untenantable site)	point	1.136,53
2405	42.140.1202	A C4 grade polygon point (Concrete - intermediary benchmark) (Geoid anchor) (On a untenantable site)	point	1.066,40
2409	42.140.1221	A C4 grade polygon point (Triangulation bronze - primary benchmark) (Geoid anchor) (On a habitable site)	point	957,95
2410	42.140.1222	A C4 grade polygon point (Triangulation bronze - intermediary benchmark) (Geoid anchor) (On a habitable site)	point	887,82
2414	42.140.1241	A C4 grade polygon point (Facility free - primary benchmark - geoid anchor)	point	799,54
2415	42.140.1242	A C4 grade polygon point (Facility free - intermediary benchmark) (Geoid anchor)	point	729,41
2416	42.140.1261	A C4 grade polygon point (GPS - Triangulation bronze - primary benchmark) (On a habitable site)	point	582,01
2417	42.140.1262	A C4 grade polygon point (GPS - Triangulation bronze - intermediary benchmark) (On a habitable site)	point	511,88
2418	42.140.1263	A C4 grade polygon point (GPS - Triangulation bronze - auxiliary benchmark) (On a habitable site)	point	439,40
2419	42.140.1281	A C4 grade polygon point (GPS - concrete - primary benchmark) (On an untenantable site)	point	760,60
2420	42.140.1282	A C4 grade polygon point (GPS- concrete - intermediary benchmark) (On an untenantable site)	point	690,47
2421	42.140.1283	A C4 grade polygon point (GPS - concrete - auxiliary triangulation point) (On an untenantable site)	point	617,99
2422	42.140.1301	A C4 grade polygon point (GPS - facility free - primary benchmark)	point	423,60
2423	42.140.1302	A C4 grade polygon point (GPS - facility free - intermediary benchmark)	point	353,47
2424	42.140.1303	A C4 grade polygon point (GPS - facility free - auxiliary benchmark)	point	280,99

PREVIOUS ITEM NO	NEW ITEM NO	WORK NAME	UNIT	UNIT PRICE (TRY)
BENCHMARKING WORKS				
3001	42.150.1101	Benchmark site selection (For a point)	point	9,80
3002	42.150.1102	Installing benchmark point, drilling on a hard wall and placing from its landmark, preparing landmark size and sketches	point	125,16
3003	42.150.1103	Floor concrete installation of benchmark on an untenable site landmark and sketches	point	233,45
3004	42.150.1104	Floor installation material of a benchmark on an untenable site	pcs	40,53
3007	42.150.1105	Benchmark network balancing and control calculation and supply of canvas	point	42,70
3010	42.150.1106	Metering and calculation of a triangulation or polygon point's elevation on a habitable site with benchmark. (Round trip in series including detailed benchmark)	point	22,63
3011	42.150.1107	Metering and calculation of round trip elevation of a complementary triangulation or polygon point on an untenable site	point	36,35
3016	42.150.1108	A benchmark concrete iron landmark	pcs	6,28
3401	42.150.1201	Critical benchmark metering of the primary benchmark or geoid anchor points	point	235,40
3402	42.150.1202	Critical benchmark metering of the intermediary benchmark or geoid anchor points	point	176,96
3403	42.150.1203	Round trip metering of the auxiliary benchmark point	point	116,56
3404	42.150.1204	Face transmittal calculation of geoid anchor points	point	15,38
3411	42.150.1301	Primary benchmark point (Triangulation bronze)	point	495,67
3412	42.150.1302	Intermediary point (Triangulation bronze)	point	425,54
3413	42.150.1303	Auxiliary point (Triangulation bronze)	point	353,06
3414	42.150.1321	Primary benchmark (Concrete)	point	674,26
3415	42.150.1341	Primary benchmark (Facility free)	point	333,72
3416	42.150.1342	Intermediary benchmark (Facility free)	point	263,59
3417	42.150.1343	Auxiliary benchmark (Facility free)	point	191,11
3421	42.150.1401	Elevation transport in 15 km ranges with GPS from TUDKA 99 benchmark (Concrete)	point	1.963,63
3422	42.150.1402	Elevation transport in 15 km ranges with GPS from TUDKA 99 benchmark (Triangulation bronze)	point	1.566,42
3423	42.150.1403	Elevation transport in 15 km ranges with GPS from TUDKA 99 benchmark (Facility free)	point	1.460,16
3101	40.110.2002	Hourly operating price of the digital levelling instrument	h	9,13
3023	40.110.2010	Hourly operating price of benchmark balancing program	h	5,14
PRISMATIC DETAILS AND TACHEOMETRIC SURVEYS (Prismatic detail survey, auxiliary lines network metering as calculation and detail metering control calculations included)				
4001	42.160.1101	Detail metering (75 units in hectare)	ha	3.867,31
4002	42.160.1102	Detail metering (35 units in hectare)	ha	2.026,53
4003	42.160.1103	Detail metering (11 units in hectare)	ha	763,67
4004	42.160.1104	Detail metering (1 unit in hectare)	ha	83,76
5001	42.160.1201	Tacheometric surveys (25 points in 1 hectare on an untenable site)	ha	223,79
5002	42.160.1202	Tacheometric surveys (75 points in 1 hectare on an untenable site)	ha	281,91
5003	42.160.1203	Tacheometric calculations (25 points in 1 hectare on an untenable site)	ha	22,90
5004	42.160.1204	Tacheometric calculations (75 points in 1 hectare on an untenable site)	ha	32,90
5006	42.160.1221	Tacheometric calculations (25 points in 1 hectare on an untenable site)	ha	246,69
5007	42.160.1222	Tacheometric sizes (75 points in 1 hectare on an untenable site)	ha	314,81
SKETCHING WORKS				
6001	42.170.1101	Passing original sketching contours in 1/1000 scale (75 units in hectare, inking included)	ha	480,00
6002	42.170.1102	Passing original sketching contours in 1/1000 scale (35 units in hectare, inking included)	ha	280,00
6003	42.170.1103	Passing original sketching contours in 1/1000 scale (11 units in hectare, inking included)	ha	120,00

PREVIOUS ITEM NO	NEW ITEM NO	WORK NAME	UNIT	UNIT PRICE (TRY)
6004	42.170.1104	Passing original sketching contours in 1/1000 scale (1 unit in hectare, inking included)	ha	64,00
6101	42.170.1121	Scratching the required details for the sketching og revision size on a 1/1000 scaled map	ha	3,00
6105	42.170.1122	Scratching the unnecessary details for plotting revision size on a 1/2000 map	ha	0,75
6109	42.170.1123	Scratching the unnecessary details for plotting revision size on a 1/5000 map	ha	0,60
6102	42.170.1141	Original plotting for revision works (1 unit in hectare)	ha	32,00
6103	42.170.1142	Original plotting for revision works (11 units in hectare)	ha	90,00
6104	42.170.1143	Original plotting for revision works (35 units in hectare)	ha	280,00
6106	42.170.1161	Plotting by converting to 1/2000 scale for revision works (1 unit in hectare)	ha	10,00
6107	42.170.1162	Plotting by converting to 1/2000 scale for revision works (11 units in hectare)	ha	60,00
6108	42.170.1163	Plotting by converting to 1/2000 scale for revision works (35 units in hectare)	pcs	210,00
6110	42.170.1164	Plotting by converting to 1/5000 scale for revision works (1 unit in hectare)	ha	6,40
6111	42.170.1165	Plotting by converting to 1/5000 scale for revision works (11 units in hectare)	ha	12,00
6112	42.170.1166	Plotting by converting to 1/5000 scale for revision works (35 units in hectare)	ha	28,00
6005	42.170.1181	Passing original sketching contours in untenantable site (On site less than 1 unit in 1 hectare, inking included)	ha	56,00
MAP SECTION SURVEY WORKS				
6201	42.180.1101	Map section survey for revision works (On untenantable site)	ha	13,31
6202	42.180.1102	Map section survey for revision works (On habitable site, 1 unit in hectare)	ha	10,31
6203	42.180.1103	Map section survey for revision works (On habitable site, 11 unit in hectare)	ha	53,48
6204	42.180.1104	Map section survey for revision works (On habitable site, 35 unit in hectare)	ha	133,70
DIGITAL MAP WORKS				
6303	42.190.1101	Metering untenantable site with total station device with recording unit (25 pieces elevations on 1 hectare and pattern point, unit: 1 hectare)	ha	313,89
6304	42.190.1102	Plotting untenantable site with digital map plotting unit (25 pieces elevations on 1 hectare and pattern point, unit: 1 hectare)	ha	44,58
6305	42.190.1103	Metering untenantable site with total station device with recording unit (75 pieces elevations on 1 hectare and pattern point, unit: 1 hectare)	ha	396,01
6306	42.190.1104	Plotting untenantable site with digital map plotting unit (75 pieces elevations on 1 hectare and pattern point, unit: 1 hectare)	ha	57,49
6307	42.190.1121	Metering habitable site with total station device with recording unit (22 pieces elevations and pattern on 1 hectare and 7 pieces detail points, unit: 1 unit in hectare)	ha	286,62
6308	42.190.1122	Plotting habitable site with digital map plotting unit (22 pieces elevations and pattern on 1 hectare and 7 pieces detail points, unit: 1 unit in 1 hectare)	ha	52,49
6309	42.190.1123	Metering habitable site with total station device with recording unit (9 pieces elevation and pattern and 77 pieces detail points in average in 1 hectare, unit: 11 units in 1 hectare)	ha	362,60
6310	42.190.1124	Plotting habitable site with digital map plotting unit (9 pieces elevation and pattern and 77 pieces detail points in average in 1 hectare, unit: 11 units in 1 hectare)	ha	114,29
6311	42.190.1125	Metering habitable site with total station device with recording unit (3 pieces elevation and pattern and 245 pieces detail points in average in 1 hectare, unit: 35 units in 1 hectare)	ha	1.846,26
6312	42.190.1126	Plotting habitable site with digital map plotting unit (3 pieces elevation and pattern and 245 pieces detail points in average in 1 hectare) unit: 35 units in 1 hectare)	ha	225,51
6313	42.190.1127	Metering habitable site with total station device with recording unit (1 pieces elevation and pattern and 525 pieces detail points in average in 1 hectare, unit: 75 units in 1 hectare)	ha	2.343,02
6314	42.190.1128	Plotting habitable site with digital map plotting unit (75 units in 1 hectare)	ha	437,57
6315	42.190.1141	Receiving point (Measured with polar total station device)	point	40,26
6300	40.110.2003	Hourly operating price for total station device	h	12,31
6301	40.110.2007	Hourly operating price of the land computer	h	11,28
6301	40.110.2007	Hourly operating price of the land computer	h	11,28
6302	40.110.2005	Hourly operating price of the digital plotting unit	h	30,08

PREVIOUS ITEM NO	NEW ITEM NO	WORK NAME	UNIT	UNIT PRICE (TRY)
PLOTTING THE CURRENT DIGITAL MAP BY CONVERTING ITS ELEVATION AND COORDINATE (Converting or calculating detail points included)				
6316	42.200.1101	For intenantable site (25 pieces elevation and pattern points on 1 hectare, unit: 1 hectare)	ha	13,40
6317	42.200.1102	For intenantable site (75 pieces elevations on 1 hectare and pattern point, unit: 1 hectare)	ha	14,40
6318	42.200.1121	For habitable site (22 pieces elevations and pattern on 1 hectare and 7 pieces detail points, unit: 1 unit in 1 hectare)	ha	13,90
6319	42.200.1122	For habitable site (9 pieces elevation and pattern and 77 pieces detail points in average in 1 hectare, unit: 11 units in 1 hectare)	ha	21,91
6320	42.200.1123	For habitable site (3 pieces elevation and pattern and 245 pieces detail points in average in 1 hectare) unit: 35 units in 1 hectare)	ha	32,33
6321	42.200.1124	For habitable site (Unit: 75 units in 1 hectare)	ha	42,50
6323	42.200.1151	Price for scanning and digitizing 1 page	page	0,77
6322	40.110.2009	Hourly operating price of A3 scanner	h	3,40
DIGITAL PLOTTING WORKS OF THE CURRENT CLASSIC MAP				
6350	42.210.1101	Recording a point dimensions tachometrically metered to computer environment	point	0,08
6351	42.210.1102	Recording a point dimensions prizmatically metered to computer environment	point	0,20
6352	42.210.1151	Plotting 1 hectare intenantable site having its coordinated obtained with digitalization with digital map plotting unit (25 pieces elevation and pattern point on 1 hectare)	ha	35,66
6353	42.210.1152	Plotting 1 hectare intenantable site having its coordinated obtained with digitalization with digital map plotting unit (75 pieces elevation and pattern point on 1 hectare)	ha	45,99
6354	42.210.1201	Plotting 1 hectare habitable site having its coordinated obtained with digitalization with digital map plotting unit (1 unit in 1 hectare)	ha	41,99
6355	42.210.1202	Plotting 1 hectare habitable site having its coordinated obtained with digitalization with digital map plotting unit (1 unit in 11 hectare)	ha	91,43
6356	42.210.1203	Plotting 1 hectare habitable site having its coordinated obtained with digitalization with digital map plotting unit (1 unit in 35 hectare)	ha	180,41
6357	42.210.1204	Plotting 1 hectare habitable site having its coordinated obtained with digitalization with digital map plotting unit (1 unit in 75 hectare)	ha	350,06
DIGITAL MAP REVISION UNIT PRICES				
6401	42.220.1101	Metering digital revision intenantable site with total station device with recording unit (25 pieces elevation and pattern points on 1 hectare, unit: 1 hectare)	ha	376,67
6402	42.220.1102	Plotting digital revision intenantable site with digital map plotting unit (25 pieces elevation and pattern points on 1 hectare, unit: 1 hectare)	ha	64,20
6403	42.220.1103	Metering digital revision intenantable site with total station device with recording unit (75 pieces elevation and pattern points on 1 hectare, unit: 1 hectare)	ha	475,21
6404	42.220.1104	Plotting digital revision intenantable site with digital map plotting unit (75 pieces elevation and pattern points on 1 hectare, unit: 75 hectares)	ha	82,79
6405	42.220.1105	Metering digital revision habitable site with total station device with recording unit (5 pieces elevation and pattern points in 1 hectare and 7 pieces detail points in average, 1 unit in 1 hectare)	ha	137,58
6406	42.220.1106	Plotting digital revision habitable site with digital map plotting unit (5 pieces elevation and pattern points in 1 hectare and 7 pieces detail points , 1 unit in 1 hectare)	ha	25,20
6407	42.220.1107	Metering digital revision habitable site with total station device with recording unit (3 pieces elevation and pattern points in 1 hectare and 77 pieces detail points in average, 11 units in 1 hectare)	ha	391,61
6408	42.220.1108	Plotting digital revision habitable site with digital map plotting unit (3 pieces elevations and pattern points on 1 hectare and 77 pieces detail points, 11 units in 1 hectare)	ha	137,15
6409	42.220.1109	Metering digital revision habitable site with total station device with recording unit (3 pieces elevation and pattern points in 1 hectare and 245 pieces detail points in average, 35 units in 1 hectare)	ha	2.215,51

PREVIOUS ITEM NO	NEW ITEM NO	WORK NAME	UNIT	UNIT PRICE (TRY)
6410	42.220.1110	Plotting digital revision habitable site with digital map plotting unit (3 pieces elevation and pattern and 245 pieces detail points in average in 1 hectare) 35 units in 1 hectare)	ha	270,61
HECTARE UNIT PROCES IN 1/1000 SCALED BASE MAP				
7001	42.230.1101	1/1000 intenantable map (1 hectare)	ha	655,87
7002	42.230.1151	1/1000 habitable map (1 hectare) (1 unit in 1 hectare)	ha	1.097,64
7003	42.230.1152	1/1000 habitable map (1 hectare) (11 units in 1 hectare)	ha	2.087,32
7004	42.230.1153	1/1000 habitable map (1 hectare) (35 units in 1 hectare)	ha	4.285,79
1/1000, 1/2000, 1/5000 MAP HECTARE UNIT PRICE				
7005	42.240.1101	1/1000 habitable map (1 hectare) (75 units in 1 hectare)	ha	7.607,41
7006	42.240.1151	1/2000 map (1 hectare) (75 units in 1 hectare)	ha	172,80
7007	42.240.1152	1/2000 map (1 hectare) (35 units in 1 hectare)	ha	100,80
7008	42.240.1153	1/2000 map (1 hectare) (11 units in 1 hectare)	ha	43,20
7009	42.240.1154	1/1000 map (1 hectare) (1 unit in 1 hectare)	ha	23,04
7010	42.240.1155	1/2000 map (1 hectare, on untenantable site)	ha	20,16
7011	42.240.1201	1/5000 map (1 hectare) (75 units in 1 hectare)	ha	86,40
7012	42.240.1202	1/5000 map (1 hectare) (35 units in 1 hectare)	ha	50,40
7013	42.240.1203	1/5000 map (1 hectare) (11 units in 1 hectare)	ha	21,60
7014	42.240.1204	1/5000 map (1 hectare) (1 units in 1 hectare)	ha	11,52
7015	42.240.1205	1/5000 map (1 hectare, on untenantable site)	ha	10,08
1/1000, 1/2000, 1/5000 COPY SKETCHING HECTARE UNIT PRICE				
7016	42.250.1101	Copy sketching for 1/1000 maps (1 hectare) (75 units in 1 hectare)	ha	201,60
7017	42.250.1102	Copy sketching for 1/1000 maps (1 hectare) (35 units in 1 hectare)	ha	117,60
7018	42.250.1103	Copy sketching for 1/1000 maps (1 hectare) (11 units in 1 hectare)	ha	50,40
7019	42.250.1104	Copy sketching for 1/1000 maps (1 hectare) (1 units in 1 hectare)	ha	26,88
7020	42.250.1105	Copy sketching for 1/1000 maps (1 hectare, on untenantable site)	ha	23,52
7021	42.250.1121	Copy sketching for 1/2000 maps (1 hectare) (75 units in 1 hectare)	ha	57,60
7022	42.250.1122	Copy sketching for 1/2000 maps (1 hectare) (35 units in 1 hectare)	ha	38,40
7023	42.250.1123	Copy sketching for 1/2000 maps (1 hectare) (11 units in 1 hectare)	ha	28,80
7024	42.250.1124	Copy sketching for 1/2000 maps (1 hectare) (1 units in 1 hectare)	ha	7,92
7025	42.250.1125	Copy sketching for 1/2000 maps (1 hectare, on untenantable site)	ha	5,76
7026	42.250.1151	Copy sketching for 1/5000 maps (1 hectare) (75 units in 1 hectare)	ha	28,80
7027	42.250.1152	Copy sketching for 1/5000 maps (1 hectare) (35 units in 1 hectare)	ha	19,20
7028	42.250.1153	Copy sketching for 1/5000 maps (1 hectare) (11 units in 1 hectare)	ha	14,40
7029	42.250.1154	Copy sketching for 1/5000 maps (1 hectare) (1 units in 1 hectare)	ha	3,60
7030	42.250.1155	Copy sketching for 1/5000 maps (1 hectare, on untenantable site)	ha	2,40
DIGITAL MAP HECTARE UNIT PRICE				
7101	42.260.1101	1/1000 digital map (1 hectare, untenantable)	ha	683,80
7102	42.260.1102	1/1000 dijital map (1 hectare) (1 unit in 1 hectare)	ha	1.060,84
7103	42.260.1103	1/1000 digital map (1 hectare) (11 units in 1 hectare)	ha	1.495,57
7104	42.260.1104	1/1000 digital map (1 hectare) (35 units in 1 hectare)	ha	3.974,47
7105	42.260.1105	1/1000 digital map (1 hectare) (75 units in 1 hectare)	ha	5.712,55
7106	42.260.1151	Plotting with 1/2000 scaled digital map plotting unit (Of untenantable and 1 unit habitable site in hectare) (Scaling, arranging, final drawing)	ha	10,48

PREVIOUS ITEM NO	NEW ITEM NO	WORK NAME	UNIT	UNIT PRICE (TRY)
7107	42.260.1152	Plotting with 1/2000 scaled digital map plotting unit (Of the habitable site, 11 units in hectare) (Scaling, arranging, final drawing)	ha	19,02
7108	42.260.1153	Plotting with 1/2000 scaled digital map plotting unit (Of the habitable site, 35 units in 1 hectare) (Scaling, arranging, final drawing)	ha	33,25
7109	42.260.1154	Plotting with 1/2000 scaled digital map plotting unit (Of the habitable site, 75 units in 1 hectare) (Scaling, arranging, final drawing)	ha	50,69
7110	42.260.1201	Plotting with 1/5000 scaled digital map plotting unit (Of untenantable and 1 unit habitable site in hectare) (Scaling, arranging, final drawing)	ha	7,63
7111	42.260.1202	Plotting with 1/5000 scaled digital map plotting unit (Of the habitable site, 11 units in 1 hectare) (Scaling, arranging, final drawing)	ha	12,38
7112	42.260.1203	Plotting with 1/5000 scaled digital map plotting unit (Of the habitable site, 35 units in 1 hectare) (Scaling, arranging, final drawing)	ha	19,02
7113	42.260.1204	Plotting with 1/5000 scaled digital map plotting unit (Of the habitable site, 75 units in 1 hectare) (Scaling, arranging, final drawing)	ha	28,86
7201	42.260.1251	1/1000 digital map (1 hectare, on untenantable site)	ha	663,08
7202	42.260.1252	1/1000 dijital map (1 hectare) (1 unit in 1 hectare)	ha	993,08
7203	42.260.1253	1/1000 digital map (1 hectare) (11 units in 1 hectare)	ha	1.392,91
7204	42.260.1254	1/1000 digital map (1 hectare) (35 units in 1 hectare)	ha	3.798,98
7205	42.260.1255	1/1000 digital map (1 hectare) (75 units in 1 hectare)	ha	5.422,66
PHOTOGRAMMETRIC MAPPING				
7303	42.270.1151	Photogrammetry (Unit: 1 hectare, untenantable site)	ha	28,45
7304	42.270.1152	Photogrammetry (Unit: 1 hectare, habitable site, 1 building on hectare)	ha	32,38
7305	42.270.1153	Photogrammetry (Unit: 1 hectare, habitable site, 11 buildings on hectare)	ha	86,23
7306	42.270.1154	Photogrammetry (Unit: 1 hectare, habitable site, 35 buildings on hectare)	ha	141,26
7307	42.270.1155	Photogrammetry (Unit: 1 hectare, habitable site, 75 buildings on hectare)	ha	234,32
7300	40.110.2014	Hourly operating price of the photogrammetry plotting program and system	h	15,62
UNIT PRICES FOR ZONING PLAN IMPLEMENTATION				
8001	42.280.1101	Preparing, control of city map implementation plans and field sketches, implementing city block corners or fractures to land, marking with peg, floor installation and landmark (Of untenantable and on habitable site with 1 unit per hectare)	ha	2.937,36
8002	42.280.1102	Preparing, control of city map implementation plans and field sketches, implementing city block corners or fractures to land, marking with peg, floor installation and landmark (On habitable sites with 11 units on 1 hectare)	ha	4.559,68
8003	42.280.1103	Preparing, control of city map implementation plans and field sketches, implementing city block corners or fractures to land, marking with peg, floor installation and landmark (On habitable sites with 35 units on 1 hectare)	ha	7.028,70
8004	42.280.1104	Preparing, control of city map implementation plans and field sketches, implementing city block corners or fractures to land, marking with peg, floor installation and landmark (On habitable sites with 75 units on 1 hectare)	ha	10.540,90
8005	42.280.1151	Plotting after survey register, passing, controlling the tenure boundaries, calculating coordinates of cit map corner and fractures, preparing scientific documents of the implemented zoning city maps, registry in land office (Of untenantable and on habitable site with 1 unit per hectare)	ha	1.434,50
8006	42.280.1152	Plotting after survey register, passing, controlling the tenure boundaries, calculating coordinates of cit map corner and fractures, preparing scientific documents of the implemented zoning city maps, registry in land office (On habitable sites with 11 units on 1 hectare)	ha	2.068,87
8007	42.280.1153	Plotting after survey register, passing, controlling the tenure boundaries, calculating coordinates of cit map corner and fractures, preparing scientific documents of the implemented zoning city maps, registry in land office (On habitable sites with 35 units on 1 hectare) (Unit: 1 hectare)	ha	4.345,51

PREVIOUS ITEM NO	NEW ITEM NO	WORK NAME	UNIT	UNIT PRICE (TRY)
8008	42.280.1154	Plotting after survey register, passing, controlling the tenure boundaries, calculating coordinates of cit map corner and fractures, preparing scientific documents of the implemented zoning city maps, registry in land office (On habitable sites with 75 units on 1 hectare)	ha	7.380,20
8009	42.280.1201	Preparing, sizing plot implementation plans and field sketches, fixing on land, floor installation by marking, survey registering (Of untenantable and on habitable site with 1 unit per hectare)	ha	1.915,62
8010	42.280.1202	Preparing, sizing plot implementation plans and field sketches, fixing on land, floor installation by marking, survey registering (On habitable sites with 11 units on 1 hectare)	ha	4.004,42
8011	42.280.1203	Preparing, sizing plot implementation plans and field sketches, fixing on land, floor installation by marking, survey registering (On habitable sites with 35 units on 1 hectare)	ha	8.474,16
8012	42.280.1204	Preparing, sizing plot implementation plans and field sketches, fixing on land, floor installation by marking, survey registering (On habitable sites with 75 units on 1 hectare)	ha	12.238,13
8013	42.280.1251	18. Partition calculations per article implementation, arranging distribution scales, acceptance by Land Scientific Department by preparing all charts (Hanging, announcement activities and assessing the objections, offician announcement cost and duties excluded) (Of untenantable and on habitable site with 1 unit per hectare)	ha	869,69
8014	42.280.1252	18. Partition calculations per article implementation, arranging distribution scales, acceptance by Land Scientific Department by preparing all charts (Hanging, announcement activities and assessing the objections, offician announcement cost and duties excluded) (On habitable sites with 11 units on 1 hectare)	ha	2.801,86
8015	42.280.1253	18. Partition calculations per article implementation, arranging distribution scales, acceptance by Land Scientific Department by preparing all charts (Hanging, announcement activities and assessing the objections, offician announcement cost and duties excluded) (On habitable sites with 35 units on 1 hectare) (Unit: 1 hectare)	ha	3.639,62
8016	42.280.1254	18. Partition calculations per article implementation, arranging distribution scales, acceptance by Land Scientific Department by preparing all charts (Hanging, announcement activities and assessing the objections, offician announcement cost and duties excluded) (On habitable sites with 75 units on 1 hectare) (Unit: 1 hectare)	ha	6.097,56
8017	42.280.1351	Map section on which implementation or survey register is to be plotted (Unit: 1 hectare)	ha	41,50
8018	42.280.1301	Preparing, controlling map section implementation plans and sketches according to Article 18 of the Zoning Law marking and registering city map corner and fractures's applied floor installation and landmarks (Of untenantable and on habitable site with 1 unit per hectare)	ha	8.588,60
8019	42.280.1302	Preparing, controlling map section implementation plans and sketches according to Article 18 of the Zoning Law marking and registering city map corner and fractures's applied floor installation and landmarks (On sites with 11 unit on 1 hectare)	hectare	16.121,80
8020	42.280.1303	Preparing, controlling map section implementation plans and sketches according to Article 18 of the Zoning Law marking and registering city map corner and fractures's applied floor installation and landmarks (On sites with 35 unit on 1 hectare)	ha	28.185,59
8021	42.280.1304	Preparing, controlling map section implementation plans and sketches according to Article 18 of the Zoning Law marking and registering city map corner and fractures's applied floor installation and landmarks (On sites with 75 unit on 1 hectare)	ha	43.508,15
8017	42.280.1351	Map section on which implementation or survey register is to be plotted (Unit: 1 hectare)	ha	41,50
8022	40.110.2006	Hourly operating price of the digitizer	h	48,34
8023	42.280.1382	Price for digitizing 1 piece of point	point	0,58
APPLICATION OF ROAD ROUTE PLANS AND WITH - LENGTH SECTION PLOTTING				
9001	42.290.1101	Preparing application maps (For 1 km road on untenantable land)	km	56,70
9002	42.290.1102	Preparing application maps (For 1 km road on habitable land)	km	92,70
9003	42.290.1121	Polygon site selection on application maps (By calculating angle and distance from approximate coordinates) (Approximately 8 points per km for 1 km road on habitable and untenantable land)	km	58,20
9004	42.290.1122	Applying polygons having selected site on application map to the land (Installation, metering, calculation and materials included) (Approximately 8 points per km for 1 km road on untenantable land)	km	3.537,89
9005	42.290.1123	Applying polygons having selected site on application map to the land (Installation, metering, calculation and materials included, it is planned to take advantage of the previous polygon) (Approximately 4 points per km for 1 km road on habitable land)	km	1.155,55

PREVIOUS ITEM NO	NEW ITEM NO	WORK NAME	UNIT	UNIT PRICE (TRY)
9006	42.290.1141	Searching previous polygon on land according to their landmarks (Approximately 5 points considered to be searched per km for 1 km road on untenantable land)	km	159,06
9007	42.290.1142	Searching previous polygon on land according to their landmarks (Approximately 14 points considered to be searched per km for 1 km road on habitable land)	km	445,37
9008	42.290.1161	Preparing application sketches (Approximately 50 pivot piles considered per km for 1 km road on on flat roads)	km	53,22
9009	42.290.1162	Preparing application sketches (125 pivot points considered per km for total 1 km curve)	km	106,44
9010	42.290.1181	Applying road pivot piles (For 1 km on flat roads on untenantable land)	km	460,97
9011	42.290.1182	Applying road pivot piles (For 1 km on curved roads on untenantable land)	km	1.161,85
9012	42.290.1183	Applying road pivot piles (For 1 km on flat roads on habitable land)	km	864,17
9013	42.290.1184	Applying road pivot piles (For 1 km on curved roads on habitable land)	km	1.728,34
9014	42.290.1201	Survey registry of pivot piles (For 1 km on flat roads on habitable and untenantable land)	km	273,77
9015	42.290.1202	Survey registry of pivot piles (For 1 km curve for habitable and untenantable land)	km	360,00
9016	42.290.1221	Sketching and control of survey registry size (Including map sheet and comparing with application map for 1 km on flat roads on habitable and untenantable land)	km	65,22
9017	42.290.1222	Sketching and control of survey registry size (Including map sheet and comparing with application map for 1 km curve on flat roads on habitable and untenantable land)	km	113,40
9018	42.290.1241	Driving introductory piles and plates (50 piles considered per kilometer for 1 km on flat roads on untenantable land)	km	116,57
9019	42.290.1242	Driving introductory piles and plates (125 piles considered per kilometer for total 1 km curve on untenantable land)	km	233,65
9020	42.290.1261	Landmarking pivot piles instead of introductory piles on the habitable land (To written with oil color from 3 points, no sketches to be plotted, 50 point per km considered for 1 km on flat roads)	km	693,60
9021	42.290.1262	Landmarking pivot piles instead of introductory piles on the habitable land (To written with oil color from 3 points, no sketches to be plotted, 125 point per km considered for 1 km curve)	km	1.716,00
9022	42.290.1271	Driving wayside piles (100 piles considered per 1km for both sides of the road and for flat roads on habitable and untenantable land)	km	375,68
9023	42.290.1272	Driving wayside piles (250 piles considered per 1 km for both sides of the road in total 1 km curve on habitable and untenantable land)	km	1.329,34
9024	42.290.1281	Width and length section benchmark (Length section benchmark shall be round tripped on flat road on untenantable land)	km	554,57
9025	42.290.1282	Width and length section benchmark (Length section benchmark shall be round tripped for total 1km curve on untenantable land)	km	1.109,14
9026	42.290.1283	Width and length section benchmark (Length section benchmark shall be round tripped on flat road on untenantable land as flowage included)	km	554,57
9027	42.290.1301	Width and length section benchmark (Length section benchmark shall be round tripped for total 1km curve on untenantable land as flowage included)	km	1.080,25
9028	42.290.1302	Width and length section elevating (For 1 km on flat roads on habitable and untenantable land)	km	144,00
9029	42.290.1303	Width and length section elevating (For total 1 km curve for habitable and untenantable land)	km	288,00
9030	42.290.1321	Length section sketching (Black elevation)	km	72,00
9031	42.290.1322	Length section sketching (Black elevation) (For total 1 km curve for untenantable land)	km	144,00
9032	42.290.1323	Length section sketching (Black elevation) (For total 1 km on flat roads on habitable land)	km	96,00
9033	42.290.1324	Length section sketching (Black elevation) (For total 1 km curve on untenantable land)	km	192,00
9034	42.290.1341	Width section sketching (Black elevation) (For 1 km on flat roads on habitable and untenantable land)	km	192,00

