

## EMPLOYMENT RISES, UNEMPLOYMENT FALLS

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### Executive Summary

The number of unemployed persons decreased by 70 thousand as opposed to an increase of 426 thousand in employment and the labor force rose by 356 thousand. As a result, the unemployment rate decreased by 0.3 percentage points (pp) MoM to 11.5%. Both the labor force and the employment level rose in September in contrast to decreases in August. According to the sectorial data, the employment level in all sectors increased. The employment levels in the services and the industrial sectors firmly increased by 218 thousand and 175 thousand, respectively. The employment levels in the agricultural and construction sectors moderately rose by 21 thousand and 13 thousand, respectively.

Seasonally adjusted female unemployment rate decreased by 0.2 pp MoM to 14.6% as a result of the increases in the female employment and female labor force by 124 thousand and 114 thousand, respectively. On the other hand, seasonally adjusted male unemployment rate decreased by 0.4 pp to 10% following the rise in the employment by 301 thousand. In September, the gender gap increased by 0.2 pp to 4.6% since male employment rose faster than female employment.

#### Unemployment rate falls

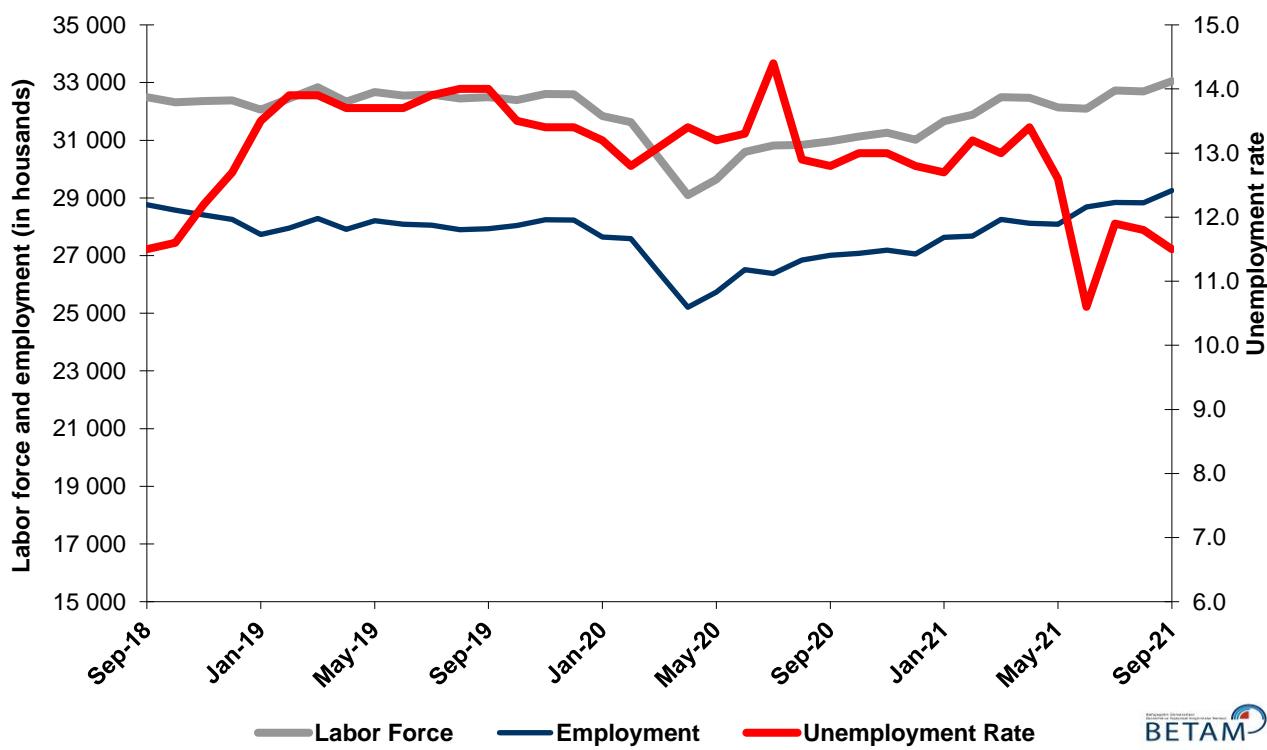
According to the monthly seasonally adjusted data, the number of employed persons rose by 426 thousand MoM to 29 million 254 thousand and the number of unemployed persons reduced by 70 thousand to 3 million 794 thousand. Therefore, labor force rose by 356 thousand to 33 million 48 thousand (Figure 1, Table 1). As a result, the unemployment rate fell by 0.3 pp to 11.5%. It is worth noting that Turkstat revised the unemployment rate in August from 12.1% to 11.8%.

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**Figure 1 : Seasonally adjusted labor force, employment, and unemployment**



Source: Turkstat, Betam

### Developments in the alternative unemployment rates

Box 1 reports the methods how Turkstat calculates the alternative unemployment rates. These measures take into account both the time-related underemployment (those who are employed less than 40 hours a week but would like to increase their working hours, nevertheless, fail to do so) and the potential labor force (the individuals who are neither employed nor looking for a job but wish to work).

#### Box 1 : Definitions of alternative unemployment rates<sup>1</sup>

**The time-related underemployment:** Persons employed in the reference week who actually worked less than 40 hours as total (in main job and additional job/s), were willing to work additional hours and were available to do so, but could not find a job for the extra hours.

**The potential labor force:** Persons not in employment who would like to work, but for whom the existing conditions limit active job search and/or availability.

**The unemployed:** The unemployed comprises all persons 15 years of age and over who were not employed during the reference period had used at least one active channel for seeking a job during the last four weeks and were available to start work within two weeks.

**1) Unemployment rate = [persons in unemployment/labor force]x100**

<sup>1</sup> Detailed information is available in the **Metadata** section of the link : <https://data.tuik.gov.tr/Kategori/GetKategori?p=istihdam-issizlik-ve-ucret-108&dil=1>

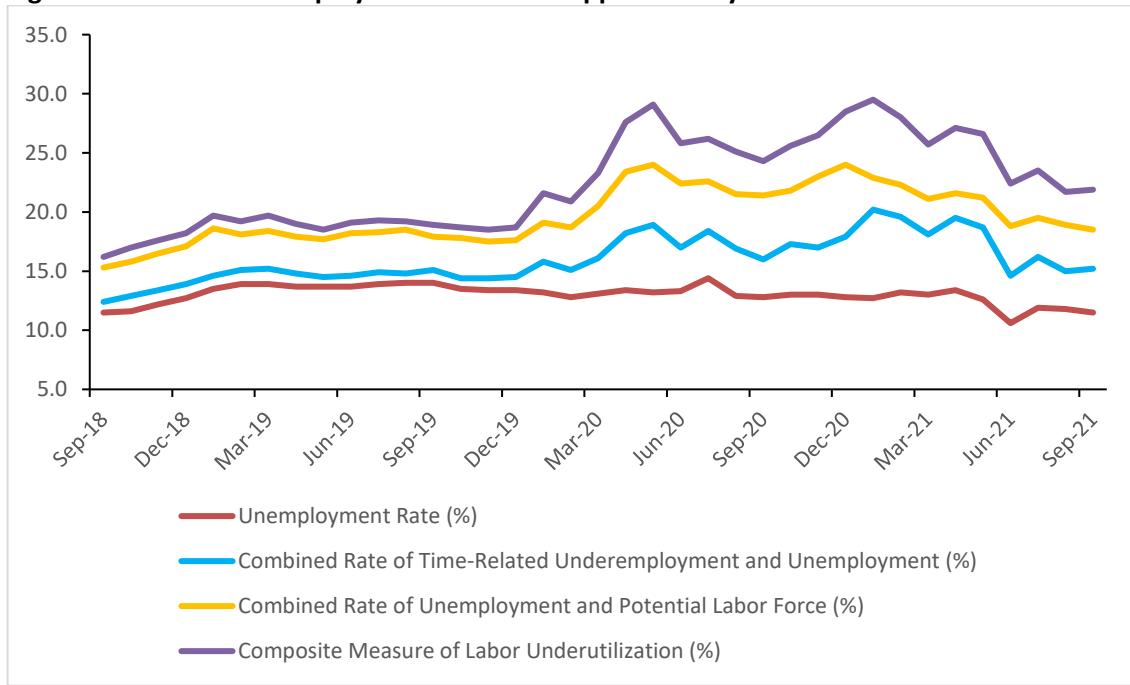
**2) Combined rate of time-related underemployment and unemployment =**

$$[(\text{persons in time-related underemployment} + \text{persons in unemployment}) / \text{labor force}] * 100$$
**3) Combined rate of unemployment and potential labor force =**

$$[(\text{persons in unemployment} + \text{potential labor force}) / (\text{labor force} + \text{potential labor force})] * 100$$
**4) Composite measure of labor underutilization =**

$$[(\text{persons in time-related underemployment} + \text{persons in unemployment} + \text{potential labor force}) / (\text{labor force} + \text{potential labor force})] * 100$$

According to the seasonally adjusted data, unemployment rate decreased by 0.3 pp to 11.5% from August to September. "The combined rate of time-related underemployment and unemployment" increased by 0.2 pp to 15.2%. The drop points to a decrease in the number of hours worked. On the other hand "the combined rate of unemployment and the potential labor force" dropped by 0.4 pp to 18.5%. "The composite measure of labor underutilization", which combines the two previous alternative unemployment measures, rose by 0.2 pp to 21.9% (Figure 2, Table 4).

**Figure 2 : Headline Unemployment Rate and Supplementary Indicators for Labor Force**

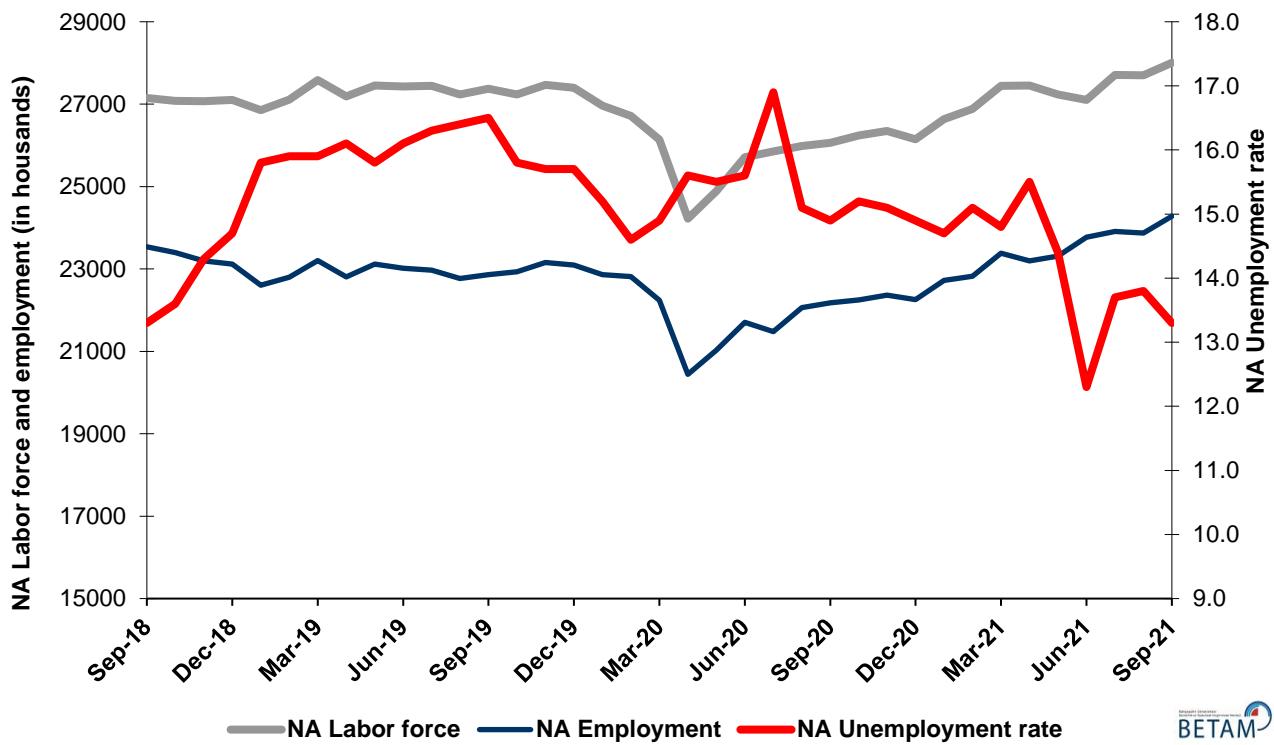
Source: Turkstat, Betam

**Firm increase in the industrial and services sectors' employment reduced non-agricultural unemployment**

Seasonally adjusted non-agricultural employment rose by 405 thousand to 24 million 280 thousand (Figure 3, Table 2). The number of non-agricultural unemployed persons decreased by 98 thousand to 3 million 725 thousand. As a

result, the non-agricultural unemployment rate dropped by 0.5 pp to 13.3%. Let's note again that Turkstat revised the non-agricultural unemployment in August from 14.2% to 13.8%.

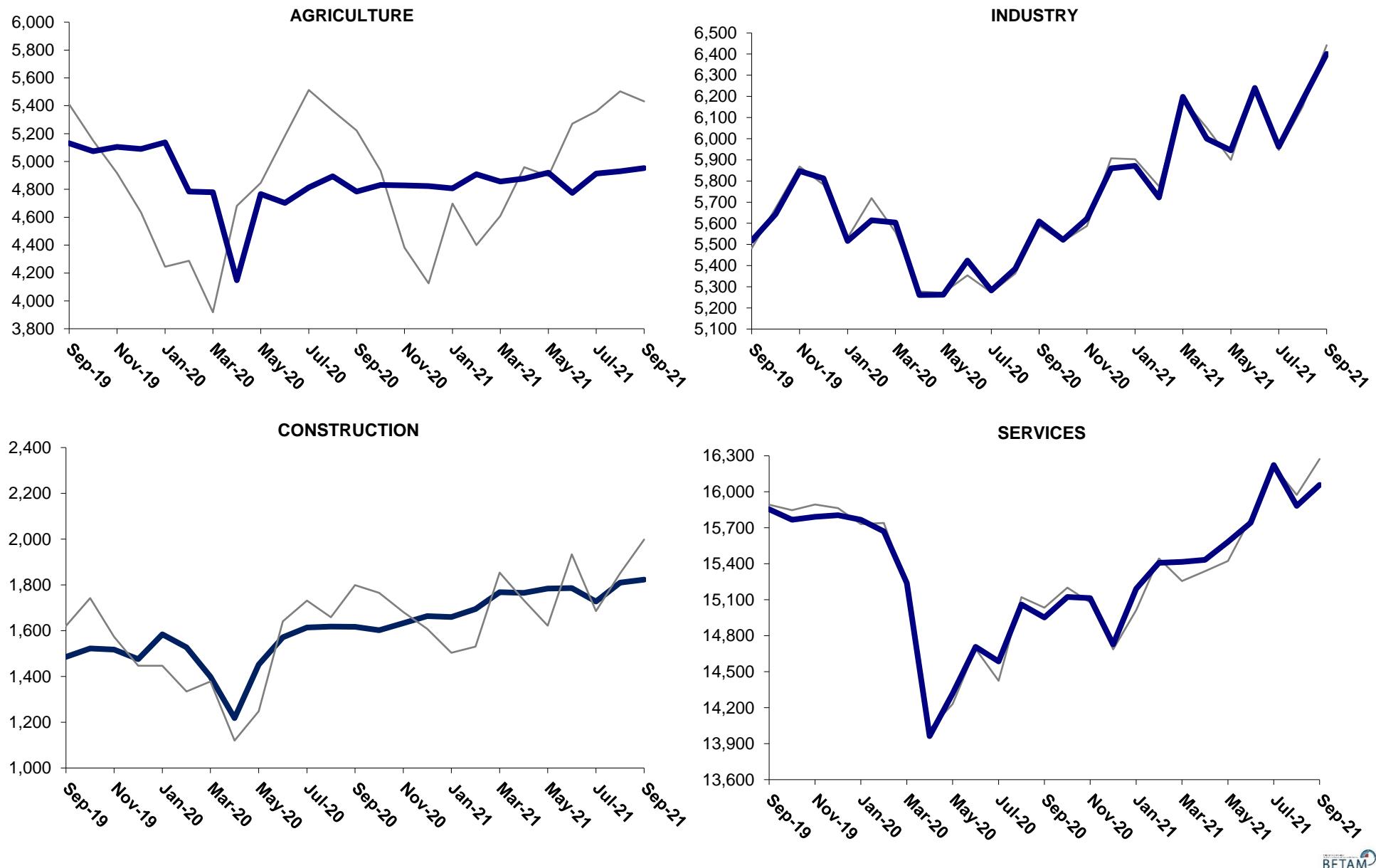
**Figure 3 : Seasonally adjusted labor force, employment, and unemployment rate**



Source: Turkstat, Betam

In September, employment in the industrial sector rose by 218 thousand following the increase of 221 thousand in August. In the last two months, the cumulative increase in the employment in the industrial sector is 439 thousand. Employment in the services sector increased by 175 thousand in September as opposed to sharp decline of 341 thousand in August. Employment in agricultural and construction sectors moderately rose by 21 thousand and 13 thousand, respectively. It is not possible to attribute the high volatility in the employment figures in subsequent months to job market dynamics. It is worth noting that the employment in the services sector did not fully recover in September from the loss in August.

**Figure 4 : Employment by sectors (in thousands)**

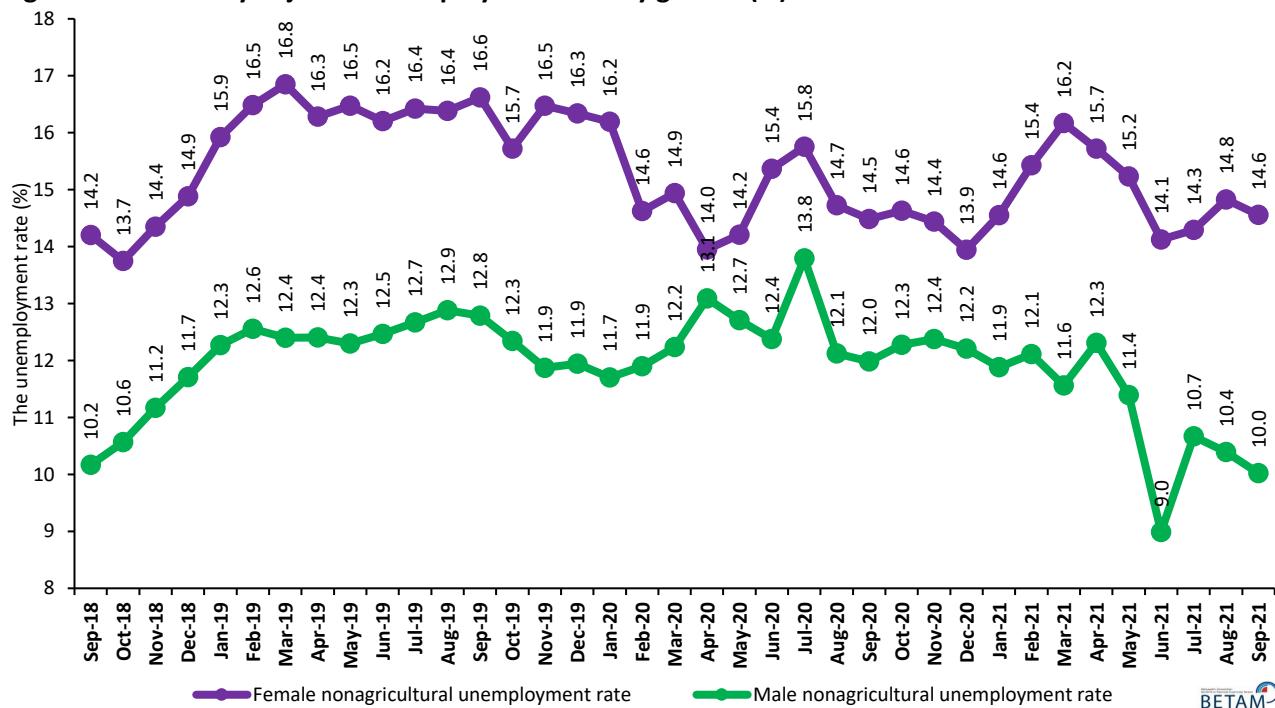


Source: Turkstat, Betam

## Firm increase in male employment

Figure 5 shows seasonally adjusted unemployment rate for males (green) and for females (purple). In September, female employment rose by 124 thousand and the number of unemployed females fell by 12 thousand. Due to the rise in employment level, female unemployment rate declined by 0.2 pp to 14.6%. In September, the number of unemployed male reduced by 58 thousand while male employment increased by 301 thousand (Table 5). As a result, male unemployment rate declined by 0.4 pp to 10%.

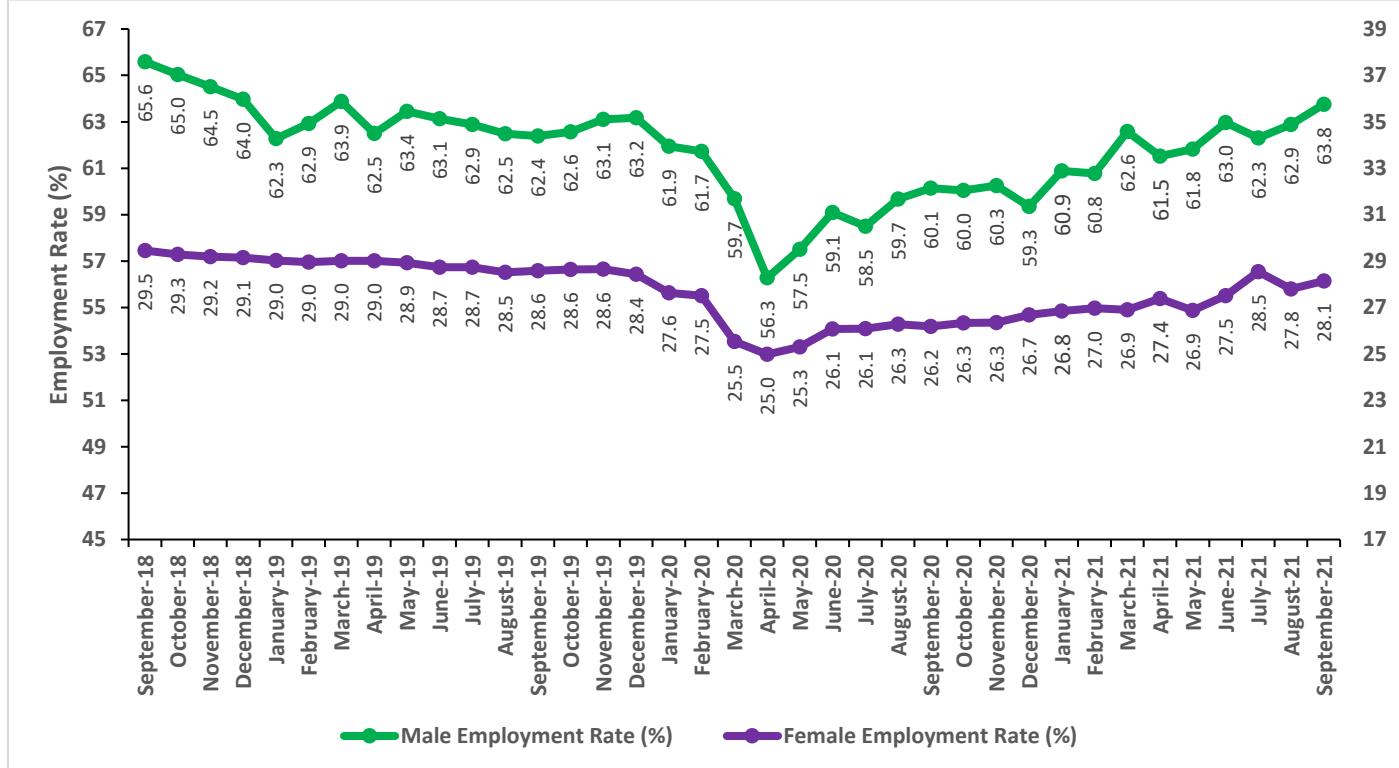
**Figure 5 : Seasonally adjusted unemployment rate by gender (%)**



Source: Turkstat, Betam

In line with those developments, female employment rate rose by 0.3 pp and male employment rate rose by 0.9 pp. Female employment rate increased in September following the decline in August (0.7 pp). Therefore, female employment rate rose from 27.8% in August to 28.1% in September. We would like to point out that female employment rate exceeded its pre-pandemic level (27.6% in January 2020). On the other hand, the male employment rate continued to increase and reached 63.8%.

**Figure 6 : Seasonally adjusted employment rate by gender (%)**



Source: Turkstat, Betam

**Table 1 : Seasonally adjusted labor force indicators (in thousands)**

	Labor force	Employment	Unemployment	Unemployment rate	Monthly changes		
	Labor force	Employment	Unemployment	Unemployment rate	Labor force	Employment	Unemployment
<b>September-18</b>	32494	28764	3730	11,5%			
<b>October-18</b>	32320	28573	3747	11,6%	-174	-191	17
<b>November-18</b>	32355	28406	3949	12,2%	35	-167	202
<b>December-18</b>	32383	28256	4127	12,7%	28	-150	178
<b>January-19</b>	32055	27733	4322	13,5%	-328	-523	195
<b>February-19</b>	32446	27951	4495	13,9%	391	218	173
<b>March-19</b>	32839	28286	4553	13,9%	393	335	58
<b>April-19</b>	32334	27907	4427	13,7%	-505	-379	-126
<b>May-19</b>	32673	28207	4467	13,7%	339	300	40
<b>June-19</b>	32546	28090	4456	13,7%	-127	-117	-11
<b>July-19</b>	32582	28051	4530	13,9%	36	-39	74
<b>August-19</b>	32450	27898	4552	14,0%	-132	-153	22
<b>September-19</b>	32498	27932	4566	14,1%	48	34	14
<b>October-19</b>	32396	28038	4357	13,4%	-102	106	-209
<b>November-19</b>	32609	28245	4365	13,4%	213	207	8
<b>December-19</b>	32591	28231	4360	13,4%	-18	-14	-5
<b>January-20</b>	31840	27649	4191	13,2%	-751	-582	-169
<b>February-20</b>	31631	27591	4040	12,8%	-209	-58	-151
<b>March-20</b>	30359	26390	3970	13,1%	-1272	-1201	-70
<b>April-20</b>	29096	25209	3887	13,4%	-1263	-1181	-83
<b>May-20</b>	29639	25733	3906	13,2%	543	524	19
<b>June-20</b>	30594	26516	4078	13,3%	955	783	172
<b>July-20</b>	30817	26375	4442	14,4%	223	-141	364
<b>August-20</b>	30840	26848	3992	12,9%	23	473	-450
<b>September-20</b>	30965	27011	3954	12,8%	125	163	-38
<b>October-20</b>	31129	27077	4052	13,0%	164	66	98
<b>November-20</b>	31262	27192	4071	13,0%	133	115	19
<b>December-20</b>	31019	27060	3959	12,8%	-243	-132	-112
<b>January-21</b>	31662	27632	4030	12,7%	643	572	71
<b>February-21</b>	31878	27680	4198	13,2%	216	48	168
<b>March-21</b>	32489	28259	4231	13,0%	611	579	33
<b>April-21</b>	32466	28116	4350	13,4%	-23	-143	119
<b>May-21</b>	32138	28086	4052	12,6%	-328	-30	-298
<b>June-21</b>	32097	28683	3415	10,6%	-41	597	-637
<b>July-21</b>	32722	28843	3880	11,9%	625	160	465
<b>August-21</b>	32692	28828	3864	11,8%	-30	-15	-16
<b>September-21</b>	33048	29254	3794	11,5%	356	426	-70

Source: Turkstat, Betam

**Table 2 : Seasonally adjusted non-agricultural labor force indicators (in thousands)**

	Labor force	Employment	Unemployment	Unemployment rate	Monthly changes		
	Labor force	Employment	Unemployment	Unemployment rate	Labor force	Employment	Unemployment
<b>September-18</b>	27.150	23.539	3.611	13,3%			
<b>October-18</b>	27.079	23.396	3.683	13,6%	-71	-143	72
<b>November-18</b>	27.069	23.198	3.871	14,3%	-10	-198	188
<b>December-18</b>	27.104	23.120	3.984	14,7%	35	-78	113
<b>January-19</b>	26.852	22.609	4.243	15,8%	-253	-511	258
<b>February-19</b>	27.108	22.798	4.310	15,9%	257	189	68
<b>March-19</b>	27.586	23.200	4.386	15,9%	478	402	76
<b>April-19</b>	27.185	22.808	4.377	16,1%	-401	-392	-9
<b>May-19</b>	27.454	23.116	4.338	15,8%	269	308	-39
<b>June-19</b>	27.430	23.014	4.416	16,1%	-23	-102	79
<b>July-19</b>	27.444	22.971	4.473	16,3%	14	-43	57
<b>August-19</b>	27.233	22.767	4.466	16,4%	-211	-204	-7
<b>September-19</b>	27.376	22.859	4.517	16,5%	143	92	51
<b>October-19</b>	27.236	22.933	4.303	15,8%	-140	74	-214
<b>November-19</b>	27.467	23.155	4.312	15,7%	231	222	9
<b>December-19</b>	27.395	23.094	4.301	15,7%	-72	-61	-11
<b>January-20</b>	26.963	22.865	4.098	15,2%	-432	-229	-203
<b>February-20</b>	26.712	22.812	3.900	14,6%	-251	-53	-198
<b>March-20</b>	26.136	22.242	3.894	14,9%	-576	-570	-6
<b>April-20</b>	24.220	20.442	3.778	15,6%	-1916	-1800	-116
<b>May-20</b>	24.889	21.031	3.858	15,5%	668	589	79
<b>June-20</b>	25.713	21.702	4.011	15,6%	825	671	154
<b>July-20</b>	25.851	21.482	4.369	16,9%	138	-220	358
<b>August-20</b>	25.988	22.064	3.924	15,1%	137	582	-445
<b>September-20</b>	26.062	22.179	3.883	14,9%	74	115	-41
<b>October-20</b>	26.237	22.249	3.988	15,2%	175	70	105
<b>November-20</b>	26.346	22.368	3.978	15,1%	109	119	-10
<b>December-20</b>	26.149	22.253	3.896	14,9%	-197	-115	-82
<b>January-21</b>	26.639	22.723	3.916	14,7%	490	470	20
<b>February-21</b>	26.882	22.823	4.059	15,1%	243	100	143
<b>March-21</b>	27.442	23.381	4.061	14,8%	560	558	2
<b>April-21</b>	27.451	23.196	4.255	15,5%	8	-185	193
<b>May-21</b>	27.234	23.312	3.922	14,4%	-217	116	-333
<b>June-21</b>	27.103	23.769	3.334	12,3%	-131	457	-588
<b>July-21</b>	27.709	23.913	3.796	13,7%	607	144	463
<b>August-21</b>	27.697	23.875	3.822	13,8%	-12	-38	26
<b>September-21</b>	28.005	24.280	3.725	13,3%	307	405	-98

Source: Turkstat, Betam

**Table 3 : Seasonally adjusted employment by sectors (in thousands)**

	Agriculture	Manufacturing	Construction	Service	Monthly changes			
					Agriculture	Manufacturing	Construction	Service
<b>September-18</b>	5225	5753	1950	15836	-48	38	-63	-117
<b>October-18</b>	5177	5791	1887	15719	31	-132	-123	57
<b>November-18</b>	5208	5659	1764	15776	-72	-30	23	-72
<b>December-18</b>	5136	5629	1787	15704	-12	-434	-111	35
<b>January-19</b>	5124	5195	1676	15739	29	174	-23	36
<b>February-19</b>	5153	5369	1653	15775	-67	241	66	97
<b>March-19</b>	5086	5610	1719	15872	13	-245	-122	-26
<b>April-19</b>	5099	5365	1597	15846	-8	253	31	23
<b>May-19</b>	5091	5618	1628	15869	-15	45	-82	-65
<b>June-19</b>	5076	5663	1546	15804	4	-48	-11	18
<b>July-19</b>	5080	5615	1535	15822	51	-26	-63	-116
<b>August-19</b>	5131	5589	1472	15706	32	126	14	148
<b>September-19</b>	5073	5518	1486	15854	-15	-71	-5	24
<b>October-19</b>	5105	5644	1522	15767	47	-34	-41	14
<b>November-19</b>	5090	5847	1517	15791	-353	-297	108	-39
<b>December-19</b>	5137	5813	1476	15805	-5	99	-57	-97
<b>January-20</b>	4784	5516	1584	15766	-631	-11	-128	-431
<b>February-20</b>	4779	5615	1527	15669	619	-343	-181	-1275
<b>March-20</b>	4148	5604	1399	15238	-65	1	234	354
<b>April-20</b>	4767	5261	1218	13963	112	162	119	390
<b>May-20</b>	4702	5262	1452	14317	79	-141	43	-122
<b>June-20</b>	4814	5424	1571	14707	-109	102	4	475
<b>July-20</b>	4893	5283	1614	14585	-4	-87	-15	171
<b>August-20</b>	4784	5385	1618	15060	-17	100	31	-11
<b>September-20</b>	4832	5609	1617	14953	-146	224	-1	-107
<b>October-20</b>	4828	5522	1602	15124	-14	-17	31	-384
<b>November-20</b>	4824	5622	1633	15113	-14	238	-4	462
<b>December-20</b>	4807	5860	1664	14729	-52	-150	35	216
<b>January-21</b>	4909	5872	1660	15191	21	476	73	8
<b>February-21</b>	4857	5722	1695	15407	42	-198	-3	17
<b>March-21</b>	4878	6198	1768	15415	-146	-55	19	150
<b>April-21</b>	4920	6000	1765	15432	140	295	2	161
<b>May-21</b>	4774	5945	1784	15582	16	-278	-59	480
<b>June-21</b>	4914	6240	1786	15743	23	221	83	-341
<b>July-21</b>	4930	5962	1727	16223	21	218	13	175
<b>August-21</b>	4953	6183	1810	15882	21	-11	-46	-107
<b>September-21</b>	4974	6401	1823	16057	13	-11	-46	-107

Source: Turkstat, Betam

**Table 4 : Unemployment, alternative unemployment rates (%) levels (in thousand)**

	Unemployment Rate (%)	Persons in Unemployment (in thousands)	Combined Rate of Time-Related Underemployment and Unemployment (%)	Time-Related Underemployed (in thousands)	Combined Rate of Unemployment and Potential Labor Force (%)	Potential Labor Force (in thousands)	Composite Measure of Labor Underutilization (%)	Total
Sep-18	11,5	3730	12,4	299	15,3	1466	16,2	5495
Oct-18	11,6	3747	12,9	422	15,8	1615	17,0	5784
Nov-18	12,2	3949	13,4	387	16,5	1664	17,6	6000
Dec-18	12,7	4127	13,9	374	17,1	1701	18,2	6203
Jan-19	13,5	4322	14,6	358	18,6	2015	19,7	6695
Feb-19	13,9	4495	15,1	404	18,1	1682	19,2	6582
Mar-19	13,9	4553	15,2	439	18,4	1825	19,7	6817
Apr-19	13,7	4427	14,8	358	17,9	1657	19,0	6443
May-19	13,7	4467	14,5	271	17,7	1599	18,5	6337
Jun-19	13,7	4456	14,6	296	18,2	1794	19,1	6546
Jul-19	13,9	4530	14,9	325	18,3	1753	19,3	6608
Aug-19	14,0	4552	14,8	251	18,5	1781	19,2	6583
Sep-19	14,0	4566	15,1	341	17,9	1524	18,9	6431
Oct-19	13,5	4357	14,4	308	17,8	1715	18,7	6380
Nov-19	13,4	4365	14,4	331	17,5	1626	18,5	6322
Dec-19	13,4	4360	14,5	366	17,6	1670	18,7	6396
Jan-20	13,2	4191	15,8	840	19,1	2337	21,6	7367
Feb-20	12,8	4040	15,1	736	18,7	2306	20,9	7083
Mar-20	13,1	3970	16,1	918	20,5	2835	23,3	7723
Apr-20	13,4	3887	18,2	1408	23,4	3814	27,6	9109
May-20	13,2	3906	18,9	1696	24,0	4220	29,1	9822
Jun-20	13,3	4078	17,0	1123	22,4	3576	25,8	8777
Jul-20	14,4	4442	18,4	1228	22,6	3259	26,2	8930
Aug-20	12,9	3992	16,9	1220	21,5	3361	25,1	8573
Sep-20	12,8	3954	16,0	1000	21,4	3400	24,3	8355
Oct-20	13,0	4052	17,3	1333	21,8	3496	25,6	8882
Nov-20	13,0	4071	17,0	1244	23,0	4051	26,5	9366
Dec-20	12,8	3959	17,9	1593	24,0	4586	28,5	10139
Jan-21	12,7	4030	20,2	2366	22,9	4177	29,5	10573
Feb-21	13,2	4198	19,6	2050	22,3	3746	28,0	9994
Mar-21	13,0	4231	18,1	1650	21,1	3326	25,7	9206
Apr-21	13,4	4350	19,5	1981	21,6	3396	27,1	9727
May-21	12,6	4052	18,7	1958	21,2	3504	26,6	9514
Jun-21	10,6	3415	14,6	1271	18,8	3226	22,4	7912
Jul-21	11,9	3880	16,2	1421	19,5	3107	23,5	8408
Aug-21	11,8	3864	15,0	1040	18,9	2854	21,7	7758
Sep-21	11,5	3794	15,2	1229	18,5	2846	21,9	7870

Source: Turkstat, Betam

**Table 5 : Seasonally adjusted female and male labor market indicators (thousands)**

	Total labor force, Female	Total Employment, Female	Total Unemployed, Female	Total labor force, Male	Total Employment, Male	Total Unemployed, Male	Women LFPR	Women Employment Rate	Men LFPR	Men Employment Rate
<b>Sep-18</b>	10.548	9.050	1.498	21.945	19.714	2.231	34,3	29,5	73,0	65,6
<b>Oct-18</b>	10.445	9.009	1.436	21.875	19.564	2.311	34,0	29,3	72,7	65,0
<b>Nov-18</b>	10.494	8.988	1.506	21.860	19.418	2.442	34,1	29,2	72,6	64,5
<b>Dec-18</b>	10.556	8.985	1.571	21.827	19.271	2.556	34,2	29,1	72,5	64,0
<b>Jan-19</b>	10.652	8.956	1.696	21.404	18.778	2.626	34,5	29,0	71,0	62,3
<b>Feb-19</b>	10.718	8.951	1.767	21.728	19.000	2.728	34,7	29,0	72,0	62,9
<b>Mar-19</b>	10.796	8.977	1.819	22.042	19.309	2.733	34,9	29,0	72,9	63,9
<b>Apr-19</b>	10.736	8.988	1.748	21.598	18.919	2.679	34,6	29,0	71,3	62,5
<b>May-19</b>	10.745	8.975	1.770	21.929	19.232	2.697	34,6	28,9	72,3	63,4
<b>Jun-19</b>	10.657	8.930	1.727	21.889	19.160	2.729	34,3	28,7	72,1	63,1
<b>Jul-19</b>	10.697	8.940	1.757	21.884	19.111	2.773	34,4	28,7	72,0	62,9
<b>Aug-19</b>	10.626	8.885	1.741	21.824	19.013	2.811	34,1	28,5	71,7	62,5
<b>Sep-19</b>	10.697	8.919	1.778	21.801	19.013	2.788	34,3	28,6	71,5	62,4
<b>Oct-19</b>	10.618	8.949	1.669	21.778	19.090	2.688	34,0	28,6	71,4	62,6
<b>Nov-19</b>	10.732	8.964	1.768	21.877	19.280	2.597	34,3	28,6	71,6	63,1
<b>Dec-19</b>	10.645	8.906	1.739	21.946	19.325	2.621	34,0	28,4	71,7	63,2
<b>Jan-20</b>	10.345	8.670	1.675	21.495	18.979	2.516	33,0	27,6	70,2	61,9
<b>Feb-20</b>	10.125	8.644	1.481	21.506	18.947	2.559	32,2	27,5	70,1	61,7
<b>Mar-20</b>	9.444	8.033	1.411	20.915	18.356	2.559	30,0	25,5	68,0	59,7
<b>Apr-20</b>	9.146	7.870	1.276	19.951	17.339	2.612	29,0	25,0	64,8	56,3
<b>May-20</b>	9.304	7.982	1.322	20.335	17.751	2.584	29,5	25,3	65,9	57,5
<b>Jun-20</b>	9.736	8.240	1.496	20.858	18.276	2.582	30,8	26,1	67,4	59,1
<b>Jul-20</b>	9.796	8.253	1.543	21.021	18.122	2.899	31,0	26,1	67,8	58,5
<b>Aug-20</b>	9.764	8.326	1.438	21.077	18.522	2.555	30,8	26,3	67,9	59,7
<b>Sep-20</b>	9.714	8.307	1.407	21.250	18.704	2.546	30,6	26,2	68,3	60,1
<b>Oct-20</b>	9.803	8.369	1.434	21.326	18.708	2.618	30,8	26,3	68,5	60,0
<b>Nov-20</b>	9.801	8.386	1.415	21.462	18.806	2.656	30,8	26,3	68,8	60,3
<b>Dec-20</b>	9.881	8.503	1.378	21.138	18.557	2.581	31,0	26,7	67,6	59,3
<b>Jan-21</b>	10.025	8.566	1.459	21.638	19.067	2.571	31,4	26,8	69,1	60,9
<b>Feb-21</b>	10.194	8.621	1.573	21.685	19.059	2.626	31,9	27,0	69,2	60,8
<b>Mar-21</b>	10.272	8.611	1.661	22.216	19.647	2.569	32,1	26,9	70,8	62,6
<b>Apr-21</b>	10.414	8.777	1.637	22.052	19.338	2.714	32,5	27,4	70,2	61,5
<b>May-21</b>	10.177	8.627	1.550	21.960	19.458	2.502	31,7	26,9	69,8	61,8
<b>Jun-21</b>	10.295	8.841	1.454	21.802	19.842	1.960	32,0	27,5	69,2	63,0
<b>Jul-21</b>	10.719	9.187	1.532	22.004	19.656	2.348	33,3	28,5	69,7	62,3
<b>Aug-21</b>	10.522	8.962	1.560	22.170	19.866	2.304	32,6	27,8	70,2	62,9
<b>Sep-21</b>	10.634	9.086	1.548	22.413	20.167	2.246	32,9	28,1	70,9	63,8

Source: Turkstat, Betam