

Investment programme progress report for the 3rd year of implementation, approved by the joint order of NMRC MNE RK No. 71-OD dated 11 May 2022 and ME RK No. 252 dated 1 August 2022 by Kazakhstan Electricity Grid Operating Company (KEGOC) JSC, the natural monopoly entity

Type of activity: system services for: 1) transmission of electricity; 2) national power grid usage; 3) technical dispatch of electricity supply to network and electricity consumption; 4) electricity generation and consumption balancing management

Item No.	Information on planned and actual scope of rendered regulated services (goods, works)					Income statement	Amount of investment program (project)			Deviation explanation	
	Regulated services (goods, works) and the service area	Description of actions	Unit of measure	Quantity in natural indices			Period of service rendering under the investment programme	Plan	Actual		Deviation
				Plan	Actual						
1	2	3	4	5	6	7	8	9	10	11	12
	1) electricity transmission in the national power grid		million kWh	10 550	9 796	3 month 2024	Report in accordance with the Order of the Minister of Finance of the Republic of Kazakhstan No. 404 dated 28 June 2017 "On approval of the list and forms of annual financial statements for publication by public interest organizations (except for financial organizations)"	49 253 347,320	43 844 651,288	-5 408 696,032	
	2) NPG usage service			59 559	39 702						
	3) technical dispatching of the electricity supply to the grid and electricity consumption			112 002	57 529						
	4) management of the electricity production and consumption balancing			215 270	112 198						
<b>Investment programme actions with a deadline within the 1st year of implementation (from 01.10.2023 to 30.09.2024)</b>											
		<b>Investment programme actions with a deadline within the 1st year of implementation (from 01.10.2023 to 30.09.2024)</b>	pc.	993	947			49 253 347,320	43 844 651,288	-5 408 696,032	
<b>1</b>		<b>Total for investment projects</b>	pc.	5	5			37 104 742,045	32 432 946,280	-4 671 795,765	
1.1		<b>Rehabilitation of 220-500 kV OHTLs at MES branches of KEGOC</b>	pc.	1	1			878 114,264	6 938 346,967	6 060 232,703	
1.1.1		Rehabilitation of 220-500 kV OHTLs at Akmolinskiye MES branch, Vostochnye MES branch, Severnye MES branch and Tsentralnye MES branch of KEGOC	pc.	1	0			427 428,226	0,000	-427 428,226	
1.1.2		(Rehabilitation of 220-500 kV OHTLs at Almatinskiye MES branch, Tsentralnye MES branch, and Yuzhnye MES branch of KEGOC	pc.	1	1			450 686,038	100 668,838	-350 017,200	
1.1.3		Реконструкция ВЛ 220-500 кВ филиалов АО "KEGOC" "Актюбинские МЭС", Сарбайские МЭС" и "Западные МЭС"	шт	0	1			0,000	6 837 678,130	6 837 678,130	
1.2		<b>West Kazakhstan Electricity Transmission Reinforcement Project Construction of power grid facilities.</b>	pc.	1	1			28 718 630,932	25 055 292,633	-3 663 338,299	
1.2.1		Works under West Kazakhstan Electricity Transmission Reinforcement Project	pc.	1	1			28 718 630,932	25 055 292,633	-3 663 338,299	
1.3		<b>HVDC North-South Electricity Transmission Project. South Kazakhstan Electricity Transmission Reinforcement Project</b>	pc.	1	1			3 130 000,000	127 149,394	-3 002 850,606	
1.3.1		Works under HVDC North-South Electricity Transmission Project. South Kazakhstan Electricity Transmission Reinforcement Project	pc.	1	1			3 130 000,000	127 149,394	-3 002 850,606	
1.4		<b>Local and pilot projects</b>	pc.	2	2			4 377 996,849	312 157,286	-4 065 839,563	
1.4.1		Upgrade of a supervisory control and data acquisition (SCADA/EMS) system	pc.	1	1			3 656 808,849	252 179,520	-3 404 629,329	
1.4.2		Synchrophasor-based monitoring system (WAMS) (2nd stage)	pc.	1	1			721 188,000	59 977,765	-661 210,235	
<b>2</b>		<b>Maintaining current production level costs</b>	pc.	988	942			12 148 605,275	11 411 705,008	-736 900,267	
2.1		<b>Rehabilitation and modernization of existing operational assets</b>	pc.	90	50	0	0	10 856 610,560	9 841 584,481	-1 015 026,079	
1.1.2		<b>Rehabilitation of substations</b>	pc.	33	25			9 155 378,711	9 052 996,80028	-102 381,911	
2.1.1.1		Rehabilitation of 220, 35 kV OSG including replacement of coupling capacitors and PLC traps at 220 kV Krasnoarmeiskaya SS	pc.	1	1			54 690,528	45 825,447	-8 865,082	
2.1.1.2		Rehabilitation of 500 kV OSG including replacement of coupling capacitors and PLC traps and installation of 500 kV line disconnect switch at 220 kV Aurora SS	pc.	1	0			144 450,798	0,000	-144 450,798	
2.1.1.3		Rehabilitation of auxiliary supply including replacement of AuxTrafo TSN-10 / 0.4 TP-10 / 0.4 kV, 10 kV metal-clad switchgear, AT-3 at 500 kV TsGPP SS	pc.	1	0			90 626,293	0,000	-90 626,293	



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	Regulated services (goods, works) and the service area	Description of actions	Unit of measure	Quantity in natural indices		Period of service rendering under the investment programme		Plan	Actual	Deviation	
				Plan	Actual						
1	2	3	4	5	6	7	8	9	10	11	12
2.1.1.4		Rehabilitation of 500 kV outdoor switchgear including replacement of 35, 500, 1150 kV disconnectors, 500 kV current and voltage transformers, 500 kV bus supports, coupling capacitors and 500 kV high-frequency traps at 1150 kV Kokshetauskaya substation	pc.	1	1			897 905,320	971 508,035	73 602,715	
2.1.1.5		Construction of a garage and premises for line maintenance personnel at 220kV Makinsk SS	pc.	1	1			71 723,000	175 428,010	103 705,010	
2.1.1.6		Rehabilitation of 220 kV OSG including replacement of air blast circuit breakers, disconnect switches, current transformers, coupling capacitors and PLC traps at 500 kV Avrora SS	pc.	1	0			501 981,000	0,000	-501 981,000	
2.1.1.7		Construction of a civil defence facility in the Akmola region	pc.	1	0			160 452,187	0,000	-160 452,187	
2.1.1.8		Rehabilitation of 0.4 kV equipment including replacement of AC and DC board, storage battery and charging installation at 220 kV Aktyubinskaya SS	pc.	1	1			93 723,548	259 328,572	165 605,024	
2.1.1.9		Construction of water supply systems at 500 kV YuKGRES SS	pc.	1	0			46 803,109	0,000	-46 803,109	
2.1.1.10		Replacement of storage batteries at 500 kV Almaty SS	pc.	2	2			55 650,000	45 109,388	-10 540,612	
2.1.1.11		Replacement of storage battery at 220 kV Saryozek SS	pc.	1	1			36 224,000	22 554,694	-13 669,306	
2.1.1.12		Rehabilitation of 500 kV OSG YuKGRES including replacement of 500 kV surge arrester and 500 kV voltage transformers	pc.	1	1			330 000,000	356 998,353	26 998,353	
2.1.1.13		Rehabilitation of substation territory including landscaping at 220 kV No. 18 Semey SS	pc.	1	1			111 634,230	187 604,004	75 969,774	
2.1.1.14		Rehabilitation of 10 kV current-limiting reactors at 220 kV Kulsary SS	pc.	1	1			175 020,740	67 486,147	-107 534,593	
2.1.1.15		Rehabilitation of 10 kV current-limiting reactors at 220 kV Atyrau SS	pc.	1	0			175 020,740	0,000	-175 020,740	
2.1.1.16		Rehabilitation of 110 kV OSG including the replacement of 110 kV T-1 transformers at 500 kV Zhitikara SS	pc.	1	1			430 000,000	622 614,496	192 614,496	
2.1.1.17		Rehabilitation of 500 kV OSG including the replacement of 500 kV autotransformer at 500 kV Zhitikara SS	pc.	1	1			2 500 000,000	1 879 876,856	-620 123,144	
2.1.1.18		Rehabilitation of 1150/500/220 kV outdoor switchgear including replacement of 1150/500/220 kV disconnectors and 220 kV current transformers at 1150 kV Kostanayskaya SS	pc.	1	1			400 000,000	1 034 112,756	634 112,756	
2.1.1.19		Replacement of AB-2 storage battery with 103 cells at 220 kV Sarbaiskaya SS	pc.	1	1			15 801,304	22 554,694	6 753,390	
2.1.1.20		Replacement of AB-1 storage battery with 104 cells at 220 kV Zhitikara SS	pc.	1	1			15 954,714	22 554,694	6 599,980	
2.1.1.21		Rehabilitation of 10/0.4 kV OSG including the replacement of two 630 kVA transformers at 110 kV Pavlodarskaya SS	pc.	1	0			25 298,469	0,000	-25 298,469	
2.1.1.22		Rehabilitation of 220 kV OSG including replacement of 1T power transformer at 220 kV TsRMZ SS	pc.	1	1			350 000,000	703 060,186	353 060,186	
2.1.1.23		Rehabilitation of 1150 kV OSG including the replacement of disconnectors in 2, 4 bays and busbars in bays 2, 4, 5 at 1150 kV Ekibastuzskaya SS	pc.	1	1			310 000,000	255 471,521	-54 528,479	
2.1.1.24		Rehabilitation of 6-220 kV bays including replacement of 6/10/35/110/220 kV VTs, 6/10/35/110/220 kV arresters, 110/220 kV oil circuit-breakers, 110-220 kV disconnectors, 110 / 220 kV CT at 220 kV Kumkol SS	pc.	1	1			500 000,000	872 512,486	372 512,486	
2.1.1.25		Rehabilitation of T-3 transformer including replacement of transformer at 220 kV Balkhashskaya SS	pc.	1	1			184 152,034	250 974,391	66 822,357	
2.1.1.26		Replacement of AB-1 storage battery at 220 kV Kumkol SS	pc.	1	1			26 374,093	22 554,694	-3 819,399	
2.1.1.27		Replacement of a storage battery at 500 kV Zhalagash SS	pc.	1	1			20 847,610	22 554,694	1 707,084	
2.1.1.28		Rehabilitation of 220/35/10 kV Zhanakorgan substation including replacement of PLC communication equipment	pc.	1	1			66 300,000	27 501,340	-38 798,660	
2.1.1.29		Rehabilitation of 500/220/10 kV Shymkent SS in Yuzhnye MES branch	pc.	1	1			700 000,000	325 237,808	-374 762,192	
2.1.1.30		Rehabilitation of 220/110/10 kV Sholakkorgan SS	pc.	1	1			200 000,000	844 324,302	644 324,302	
2.1.1.31		Rehabilitation of AT-1, 2 bays including the replacement of 35 kV regulating transformers at 220 kV Opornaya SS	pc.	1	0			380 000,000	0,000	-380 000,000	
2.1.1.32		Rehabilitation of water supply system' at 220 kV Opornaya SS	pc.	1	1			84 744,994	15 249,233	-69 495,761	
<b>2.1.2</b>		<b>Rehabilitation of lines</b>	<b>pc.</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>23 300,109</b>	<b>0,000</b>	<b>-23 300,109</b>	
2.1.2.1		Replacement of suspension towers for anchor towers at the section of 220 kV OHTL L-2138 NS-19-Ossakarovka	pc.	1	0			23 300,109	0,000	-23 300,109	
<b>2.1.3</b>		<b>Telecommunication systems, communication and information systems</b>	<b>pc.</b>	<b>13</b>	<b>7</b>			<b>1 297 687,808</b>	<b>668 693,193</b>	<b>-628 994,615</b>	
2.1.3.1		Construction of communication line TsGPP- Executive administration of KEGOC	pc.	1	0			100 000,000	0,000	-100 000,000	

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				Plan	Actual						
1	2	3	4	5	6	7	8	9	10	11	12
		<b>Modernization of the PBX network</b>									
2.1.3.2.1		Aktyubinskiye MES branch	pc.	3	0			224 922,021	0,000	-224 922,021	
2.1.3.2.2		Zapadnye MES branch	pc.	2	0			176 739,717	0,000	-176 739,717	
2.1.3.3		Modernization of PLC channels: No. 232 Shymkent 500 - Sastobe, No. 230 Sastobe - Vannovka, No. 238 Karatau-Opornaya, No. 284 Zhambyl-Karatau, No. 283 Zhambyl-Karatau, No. 368 Opornaya-Sholak-Korgan, No. 510 Zhambyl-Shymkent-500	pc.	7	7			796 026,070	668 693,193	-127 332,877	
<b>2.1.4</b>		<b>Design and survey works</b>	<b>pc.</b>	<b>43</b>	<b>18</b>			<b>380 243,932</b>	<b>119 894,487</b>	<b>-260 349,445</b>	
2.1.4.1		Development of design documentation for "Rehabilitation of the automatic fire extinguishing system of 500 kV Aurora substation"	pc.	1	0			10 060,000	0,000	-10 060,000	
2.1.4.2		Development of design and estimate documentation for 'Rehabilitation of 220, 110 kV OSG including replacement of coupling capacitors and PLC traps at 220 kV Kuibyshevskaya SS'	pc.	1	1			9 250,000	4 674,999	-4 575,001	
2.1.4.3		Development of design and estimate documentation for 'Rehabilitation of 220, 110 kV OSG including replacement of coupling capacitors and PLC traps at 220 kV KGPP SS'	pc.	1	1			9 250,000	4 674,999	-4 575,001	
2.1.4.4		Development of design and estimate documentation for 'Rehabilitation of 220, 110 kV OSG including replacement of coupling capacitors and PLC traps at 220 kV Makinskaya SS'	pc.	1	1			9 250,000	5 137,500	-4 112,500	
2.1.4.5		Design and survey work for "Removal of tower No. 18 of 220 kV L-2791 Ereymentau(t)-Ulenty(t) overhead line from the territory of the cemetery"	pc.	1	1			9 850,400	4 890,000	-4 960,400	
2.1.4.6		Development of design and estimate documentation for "Reconstruction of the roof and premises of substation control building at 500 kV Ulke SS"	pc.	1	1			8 270,000	4 192,831	-4 077,169	
2.1.4.7		Development of design and estimate documentation for "Reconstruction of the roof and premises of substation control building at 500 kV Stepnaya SS"	pc.	1	0			8 270,000	0,000	-8 270,000	
2.1.4.8		Development of design and estimate documentation for 'Rehabilitation of fire-fighting water supply pipelines at 220 kV Uralskaya SS'	pc.	1	1			8 550,000	4 940,031	-3 609,969	
2.1.4.9		Development of design and estimate documentation for "Rehabilitation and connection of utility and drinking water supply of 220 kV Stroitel'naya SS"	pc.	1	1			17 476,770	13 195,522	-4 281,248	
2.1.4.10		Development of design and estimate documentation for 'Rehabilitation of 220 kV OSG including replacement of 1T power transformer at 220 kV TsRMZ SS'	pc.	1	1			22 143,191	18 907,095	-3 236,096	
2.1.4.11		Development of design and estimate documentation for "Construction of firefighting pipeline systems at the substation and connection of the water supply to the 220 kV Zavodskaya SS"	pc.	1	1			21 062,065	15 854,144	-5 207,921	
2.1.4.12		Development of design and estimate documentation for 'Rehabilitation including replacement of outdoor switchgear equipment at 220 kV No.14 SS'	pc.	1	0			14 500,000	0,000	-14 500,000	
2.1.4.13		Development of design and estimate documentation for "Rehabilitation including replacement of outdoor switchgear equipment at 500 kV Ust-Kamenogorskaya SS"	pc.	1	0			14 500,000	0,000	-14 500,000	
2.1.4.14		Development of design and estimate documentation for "Rehabilitation of SAON (power surge) emergency automatic control system at PS No. 14"	pc.	1	1			5 733,628	3 517,808	-2 215,820	
2.1.4.15		Development of design and estimate documentation for "Rehabilitation of the main relay protection system for L-102"	pc.	1	1			8 116,156	4 672,497	-3 443,659	
2.1.4.16		Development of design and estimate documentation for "Rehabilitation of the main relay protection system for L-123"	pc.	1	1			8 116,156	4 672,497	-3 443,659	
2.1.4.17		Development of design and estimate documentation for "Rehabilitation of the main relay protection system for L-129"	pc.	1	1			8 116,156	4 672,497	-3 443,659	
2.1.4.18		Selection and approval of routes for "Removal of a section of 220 kV L-2015 Atyrau-Inder overhead line from the residential area development zone"	pc.	1	0			10 086,431	0,000	-10 086,431	
2.1.4.19		Development of design and estimate documentation for 'Rehabilitation of the fire-extinguishing system at 1150 kV Kostanayskaya SS'	pc.	1	0			3 440,641	0,000	-3 440,641	

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				Plan	Actual						
1	2	3	4	5	6	7	8	9	10	11	12
2.1.4.20		Development of design estimates for 'Rehabilitation of auxiliary supply including replacement of Auxiliary Supply units No 1 and 2 at 220 kV Tsentralnaya" at Sarbaiskiye MES branch	pc.	1	0			5 272,030	0,000	-5 272,030	
2.1.4.21		Development of design and estimate documentation for 'Rehabilitation of 110 kV OSG including the replacement of 110 kV T-2 transformer at 500 kV Zhitikara SS'	pc.	1	0			5 291,201	0,000	-5 291,201	
2.1.4.22		Development of design and estimate documentation for 'Rehabilitation of substation auxiliary supply including replacement of AuxTrafos (16 units) at 1150 kV Ekibastuzskaya SS'	pc.	1	1			12 828,358	7 130,518	-5 697,840	
2.1.4.23		Development of design and estimate documentation for "Installation of a 0.4 kV auxiliary panel in the Branch's administrative building"	pc.	1	1			5 024,128	2 231,715	-2 792,413	
2.1.4.24		Development of design and estimate documentation for "Rehabilitation of 220 kV outdoor switchgear at 220 kV EPK substation including replacement of RNDZ disconnectors"	pc.	1	0			4 205,279	0,000	-4 205,279	
2.1.4.25		Development of design and estimate documentation for 'Rehabilitation of 500 kV bays including replacement of 500 kV disconnectors, 500 kV current transformers, 500 kV voltage transformers at 500 kV Nura SS'	pc.	1	0			23 842,289	0,000	-23 842,289	
2.1.4.26		Development of design and estimate documentation for 'Rehabilitation of reactor group by placing 500 kV R-1 reactor at 500 kV Nura SS'	pc.	1	0			18 452,336	0,000	-18 452,336	
2.1.4.27		Development of design and estimate documentation for 'Rehabilitation of 500 kV bays including replacement of 500 kV disconnectors, 500 kV current transformers, 500 kV voltage transformers, current-limiting reactor at 500 kV Zhezkazgan SS'	pc.	1	0			14 014,378	0,000	-14 014,378	
2.1.4.28		Development of design and estimate documentation for 'Rehabilitation of AT-1 autotransformer including replacement of 220 kV autotransformer at 220 kV Akchatau SS'	pc.	1	0			7 917,860	0,000	-7 917,860	
2.1.4.29		Development of design and estimate documentation for "Rehabilitation of 220 kV outdoor switchgear and 10 kV indoor switchgear of 500 kV Zhambyl SS"	pc.	1	0			9 043,811	0,000	-9 043,811	
2.1.4.30		Development of design and estimate documentation for "Rehabilitation of the KazTPP base, oil storage warehouse, central warehouse at Yuzhnye MES branch"	pc.	1	1			8 480,570	4 635,000	-3 845,570	
2.1.4.31		Development of design and estimate documentation for 'Replacement of ground wire cable at 220 kV OHTL Zhambyl - ZGRES (L-2139)'	pc.	1	1			10 913,030	6 776,666	-4 136,364	
2.1.4.32		Preparation of design and estimate documentation for 'Replacement of ground wire cable at 220 kV OHTL Yuzhnaya - ZhGRES'	pc.	1	1			8 352,927	5 118,169	-3 234,758	
2.1.4.33		Development of design and estimate documentation for "Modernization of PLC channels No. 519 Kokshetauskaya-Aurora, No. 654 Kokshetauskaya 1150-Aurora	pc.	1	0			4 550,241	0,000	-4 550,241	
2.1.4.34		Development of design and estimate documentation for "Modernization of PLC channel No. 548 TsGPP-EGRES1	pc.	1	0			2 275,232	0,000	-2 275,232	
2.1.4.35		Development of design and estimate documentation for "Modernization of PLC channel No. 511 EGPP-Sokol	pc.	1	0			2 275,232	0,000	-2 275,232	
2.1.4.36		Development of design and estimate documentation for "Modernization of PLC channel No. 265 Uralskaya - Stepnaya	pc.	1	0			2 275,232	0,000	-2 275,232	
2.1.4.37		Development of design and estimate documentation for "Modernization of PLC channel No. 520 YukGRES-Shu	pc.	1	0			2 275,232	0,000	-2 275,232	
2.1.4.38		Development of design and estimate documentation for "Modernization of PLC channels No. 636 Kostanayskaya-Sokol, No. 602 Kostanay 1150 - Kokshetau 1150, No. 603 Kostanay 1150 - Kokshetau 1150, No. 259 Sokol-Sarbayskaya (north) -c	pc.	1	0			8 790,212	0,000	-8 790,212	
2.1.4.39		Development of design and estimate documentation for "Modernization of PLC channels No. 574 Ekibastuzskaya 1150 - EGRES-2, No. 607 Ekibastuz 1150 - Kokshetau 1150, No. 609 Ekibastuz 1150 - Kokshetau 1150	pc.	1	0			6 746,823	0,000	-6 746,823	
2.1.4.40		Development of design and estimate documentation for "Modernization of PLC channel No. 582 EGRES-1 - Nura	pc.	1	0			2 275,232	0,000	-2 275,232	
2.1.4.41		Development of design and estimate documentation for "Modernization of PLC channels No. 630 Agadyr-Nura, No. 631 Agadyr-Zhezkazgan	pc.	1	0			4 550,241	0,000	-4 550,241	

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1	2	3	4	5	6	7	8	9	10	11	12
2.1.4.42		Development of design and estimate documentation for "Modernization of PLC channel No. 239 Zhambyl-Vannovka	pc.	1	0			2 275,232	0,000	-2 275,232	
2.1.4.43		Development of design and estimate documentation for "Modernization of PLC channel No. 265 Kentau-Sholak-Korgan	pc.	1	0			2 275,232	0,000	-2 275,232	
<b>2.2</b>		<b>Procurement of equipment, which does not require installation</b>	<b>pc.</b>	<b>898</b>	<b>892</b>			<b>1 291 994,715</b>	<b>1 570 120,527</b>	<b>278 125,812</b>	
<b>2.2.1</b>		<b>Transport vehicles and construction machinery</b>	<b>pc.</b>	<b>14</b>	<b>14</b>			<b>479 946,720</b>	<b>772 218,997</b>	<b>292 272,277</b>	
		<b>Akmolinskiye MES branch</b>									
2.2.1.1		Mobile home (8 beds, designed and equipped for temporary accommodation of people on site for duration of a long-term work)	pc.	1	1			12 960,000	23 760,000	10 800,000	
2.2.1.2		Mini loader (diesel engine, equipped with a bucket capacity of at least 800 kg and additional equipment)	pc.	1	1			10 800,000	16 942,432	6 142,432	
2.2.1.3		Crew truck (6x6 diesel truck, all-metal body equipped with ventilation and heating, at least 6 sleeping beds)	pc.	1	1			36 072,000	53 200,000	17 128,000	
		<b>Aktubinskiye MES branch</b>									
2.2.1.4		Crane truck (diesel 6x6 truck mounted, load-carrying capacity: not less than 25 tonnes)	pc.	1	1			68 970,000	119 600,000	50 630,000	
		<b>Almatinskiye MES branch</b>									
2.2.1.5		Crew truck (6x6 diesel truck, all-metal body equipped with ventilation and heating, at least 6 sleeping beds)	pc.	1	1			36 072,000	53 200,000	17 128,000	
		<b>Vostochnye MES branch</b>									
2.2.1.6		Crew truck (6x6 diesel truck, all-metal body equipped with ventilation and heating, at least 6 sleeping beds)	pc.	1	1			36 072,000	53 200,000	17 128,000	
2.2.1.7		Truck tractor (diesel, 6x6, sleeper cab)	pc.	1	1			24 876,720	42 000,000	17 123,280	
2.2.1.8		Semi-trailer (Two-axle semitrailer with metal, welded platform, with folding side and rear boards, carrying capacity not less than 18 tonnes)	pc.	1	1			12 960,000	16 036,565	3 076,565	
		<b>Zapadnye MES branch</b>									
2.2.1.9		Boom lift ( diesel motor vehicle, 4x2, working height: not less than 22 m)	pc.	1	1			29 160,000	61 880,000	32 720,000	
		<b>Sarbaijskiye MES branch</b>									
2.2.1.10		Crew truck (6x6 diesel truck, all-metal body equipped with ventilation and heating, at least 6 sleeping beds)	pc.	1	1			36 072,000	53 200,000	17 128,000	
		<b>Severnye MES branch</b>									
2.2.1.11		Crew truck (6x6 diesel truck, all-metal body equipped with ventilation and heating, at least 6 sleeping beds)	pc.	1	1			36 072,000	53 200,000	17 128,000	
		<b>Tsentralnye MES branch</b>									
2.2.1.12		Crew truck (6x6 diesel truck, all-metal body equipped with ventilation and heating, at least 6 sleeping beds)	pc.	1	1			36 072,000	53 200,000	17 128,000	
2.2.1.13		Crane truck (diesel 6x6 truck mounted, load-carrying capacity: not less than 25 tonnes)	pc.	1	1			67 716,000	119 600,000	51 884,000	
		<b>Yuzhnye MES branch</b>									
2.2.1.14		Crew truck (6x6 diesel truck, all-metal body equipped with ventilation and heating, at least 6 sleeping beds)	pc.	1	1			36 072,000	53 200,000	17 128,000	
<b>2.2.2</b>		<b>Diagnostic instruments</b>	<b>pc.</b>	<b>36</b>	<b>36</b>			<b>91 180,182</b>	<b>106 588,281</b>	<b>15 408,099</b>	
		<b>Akmolinskiye MES branch</b>									
2.2.2.1		High-voltage testing laboratory for electrical protective equipment (Testing laboratory for testing electrical protective equipment with voltages up to 100 kV; including: Stand No. 1 "Power inputs"; Stand No. 2 "Testing of protective equipment made of dielectric rubber and tools"; Stand No. 3 "Testing of voltage indicators "; Stand No. 4 "Testing of insulating rods"; Stand No. 5 "Drying of protective equipment." The contractor shall ensure that the laboratory is 100% ready for operation (installation, initial start-up, training))	pc.	1	1			33 163,401	28 188,891	-4 974,510	
		<b>Aktubinskiye MES branch</b>									
2.2.2.2		Microohmmeter (range of measured resistances: 0-20000 μOhm, device weight: 3.5 kg, dimensions: 210*235*75)	pc.	1	1			1 438,218	1 400,000	-38,218	
2.2.2.3		Multimeter (U DC/U AC TRMS (AC, AC+DC) 0.01 mV...1000 V, operating range 40Hz-100 kHz, resolution 0.1 μV, basic acc 0.015%; I DC/I AC TRMS 0.1 μA - 10A, operating range 40...1 kHz, resolution 0.1 μA, resistance 1000 Ohm...40 MOhm resolution 0.01 Ohm, frequency 40 Hz...4 MHz resolution 10 MHz, continuity testing (up to 50 Ohms) and diode testing)	pc.	1	1			70,455	251,300	180,845	



Item No.	Information on planned and actual scope of rendered regulated services (goods, works)						Income statement	Amount of investment program (project)			Deviation explanation
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				Plan	Actual						
1	2	3	4	5	6	7	8	9	10	11	12
2.2.2.14		Installation for measuring the dielectric loss tangent of transformer oil (Designed for measuring the dielectric loss tangent of transformer oil and some other liquid dielectrics. The installation is a set of electronic devices that simultaneously measures several parameters. Based on these data, the electronic device calculates the capacity of the test object Cx. and the dielectric loss tangent tgδ and transmits this data via a radio channel to the display unit, where they are displayed on the screen)	pc.	1	1			2 977,876	3 143,900	166,024	
2.2.2.15		Phase-zero loop resistance meter, phase-phase (Using the device, you can measure the resistance of the "phase-zero", "phase-phase" loop and the transition resistances of contact connections. When measuring the resistance of a "phase-zero" or "phase-phase" loop, the device simultaneously measures the active, reactive and impedance of the loop, and also calculates the predicted short-circuit current without turning off the line protection)	pc.	1	1			160,695	298,900	138,205	
2.2.2.16		Device for measuring and analyzing vibration (Allows you to measure the general level of vibration (displacement, speed, acceleration), measure vibration spectra in the range from 10 to 1000 Hz. Designed for: rotating equipment - pumps of various brands, compressors (including piston ones), turbine units, fans, gas blowers, smoke exhausters, etc.; foundations; pressing of active elements of oil-filled transformers and oil pumps)	pc.	1	1			843,648	2 257,000	1 413,352	
2.2.2.17		Liquid contamination analyzer (The liquid contamination analyzer is designed for automatic monitoring of the content of mechanical impurities in hydraulic, fuel and oil systems of aircraft and technological equipment using the method of selected samples. Provide data exchange with an external computer and remote control. )	pc.	1	1			3 665,852	3 665,800	-0,052	
2.2.2.18		Thermal imaging camera (a portable and multifunctional thermographic system designed for intensive IR diagnostics, taking measurements in a wide temperature range or measuring high temperatures, with high resolution and temperature sensitivity) )	pc.	1	1			4 724,429	4 110,500	-613,929	
		<b>Tsentralnye MES branch</b>									
2.2.2.19		High-precision laboratory thermostat for determining the viscosity of petroleum products (Technical characteristics:• Temperature control: 20, 40, 50, 80, 100, 130°C; • Coolant volume 10 l; • Power supply parameters: 220V, 50 Hz;)	pc.	1	1			5 182,409	2 940,000	-2 242,409	
2.2.2.20		Transformer oil moisture meter to determine the amount of moisture in transformer oil (Specifications:• Measuring range of mass fraction of moisture..... 0...50 million -1 (g/t))	pc.	1	1			7 545,588	10 174,600	2 629,012	
2.2.2.21		Earth resistance meter (Output voltage ± 25 V or ± 50 V, Current 4.5 mA or 0.45 mA Ranges of ground current flowing through the clamp from 0.5 mA to 19.9 A Ground current measurement accuracy 5% Range ground voltage 0 to 100 VAC Resistance range 0.01 Ohm to 20 kOhm)	pc.	2	2			2 211,764	3 182,000	970,236	
		<b>Yuzhnye MES branch</b>									
2.2.2.22		Ground Resistance Meter (Maximum Test Current: 250 mA/128 Hz Accuracy: 3% Voltage measurement (amplitude value): 300 V Measurement of alternating current with a frequency of 50 Hz (using KTI-10 clamps): 1 - 250 mA Operating temperature: -15 °C to +55 °C)	pc.	3	3			465,333	1 101,000	635,667	
2.2.2.23		Test installation for direct/alternating voltage (Maximum power consumption, kVA, no more than 3 Maximum output voltage, kV: - variable, 70 - straightened, 50)	pc.	1	1			1 835,939	3 900,000	2 064,061	
2.2.2.24		Measuring complex for diagnosing the quality of grounding loops (Input resistance of the voltage measurement channel, MOhm, not less than: 1 Input resistance of the current measurement channel at the limit (1 ... 50) mA, Ohm, no more than: 5 Input resistance of the current measurement channel at the limit of 50 mA...5 A, Ohm, no more: 0.05)	pc.	1	1			4 516,831	6 039,000	1 522,169	



Item No.	Information on planned and actual scope of rendered regulated services (goods, works)					Income statement	Amount of investment program (project)			Deviation explanation	
	Regulated services (goods, works) and the service area	Description of actions	Unit of measure	Quantity in natural indices			Period of service rendering under the investment programme	Plan	Actual		Deviation
				Plan	Actual						
1	2	3	4	5	6	7	8	9	10	11	12
2.2.2.25		Thermal Imaging Camera (Infrared camera with lens, battery (2 pcs), charger, hard case, neck strap, front lens cap, power supplies, printed documentation, SD card (8 GB), cables (USB 2.0 A to USB Type -C, from USB Type-C to HDML, from USB Type-C to USB Type-C))	pc.	1	1			10 258,760	19 740,903	9 482,143	
<b>2.2.3</b>		<b>Metrology instruments</b>	<b>pc.</b>	<b>7</b>	<b>7</b>			<b>10 373,958</b>	<b>11 957,519</b>	<b>1 583,562</b>	
		<b>Akmolinskiye MES branch</b>									
2.2.3.1		Portable device "PARMA VAF-A(M) (Parma VAF-A(M) with two clamps)	pc.	2	2			723,125	1 215,000	491,875	
2.2.3.2		Three-phase volt-amperephase meter VFM-3 (The device displays a graphical image of a vector diagram of the controlled circuit)	pc.	1	1			396,351	659,500	263,149	
		<b>Zapadnye MES branch</b>									
2.2.3.3		Portable pressure calibrator Metran-501-PKD - with pressure module.	pc.	1	1			4 481,699	4 397,639	-84,060	
		<b>Sarbaiskiye MES branch</b>									
2.2.3.4		Device for testing electrical insulation strength (range of smooth adjustment of output voltage alternating (with the frequency of the supply network) and direct current - 0.1-6.0 kV, maximum output current - 0.1-2 A, maximum output power no more than -2000 VA , reduced error in measuring voltage and current, no more than 2%, supply voltage 220 +22 -33V)	pc.	1	1			2 567,502	3 480,120	912,618	
		<b>Severnye MES branch</b>									
2.2.3.5		Controller (14 ports for connecting electricity measuring devices, including: 1) serial interface RS485 (8); 2) serial interface RS232 or RS485 (6).)	pc.	2	2			2 205,280	2 205,260	-0,020	
<b>2.2.4</b>		<b>Relay protection and automation devices</b>	<b>pc.</b>	<b>24</b>	<b>24</b>			<b>206 499,393</b>	<b>315 873,330</b>	<b>109 373,937</b>	
		<b>Akmolinskiye MES branch</b>									
2.2.4.1		Current transformer analyzer (CT-Analyzer with software and expansion kit CT SB2-VEHZ0696)	pc.	1	1			13 588,759	22 449,483	8 860,724	
2.2.4.2		Computer test system with software (OMICRON CMC-356 type, complete with laptop)	pc.	1	1			39 179,621	22 344,681	-16 834,940	
		<b>Aktyubinskiye MES branch</b>									
2.2.4.3		Test complex RETOM-25 (Included with accessories: Load transformer RET-3000, Measuring-transformer unit RET-VAKH, Mobile instrument rack SPP-80/1, Volt-amperephase meter)	pc.	1	1			8 280,000	15 639,000	7 359,000	
2.2.4.4		Computer test system with software (OMICRON CMC-356 type, complete with laptop)	pc.	1	1			39 179,621	22 344,681	-16 834,940	
		<b>Almatinskiye MES branch</b>									
2.2.4.5		Digital multimeter The device supports Fluke Connect technology only when using the FLUKE IR3000FC wireless adapter (purchased separately). Purpose of the Fluke 289 digital multimeter: The new Fluke 287 and Fluke 289 True RMS digital multimeters are designed for the industry's top professionals.	pc.	6	6			2 249,527	13 359,000	11 109,473	
		<b>Vostochnye MES branch</b>									
2.2.4.6		RETOM-VCh/64, VChA-75M, VChT-25M, VChR-64. The delivery set of the RF equipment testing complex includes: a test device for testing high-frequency equipment (basic device), an attenuation magazine, a high-frequency tester, an RC magazine, a bag for transporting the device, a cable for connecting to a computer (USB), a cable for connecting to a 220 V network, block of wires, coaxial cables and adapters, special programs for checking relay protection and automation equipment, laptop.	pc.	1	1			12 554,286	22 399,000	9 844,714	
2.2.4.7		Three-phase voltage-sourced converter unit "PET-TN" (Input/output voltage: no more than 135V/700V. Maximum output power of each phase: not less than 60VA. Transformation ratios: 1/√ 3; Tel. 1 ;√ 3 ; 5. Frequency range: 45-185Hz)	pc.	1	1			862,546	950,407	87,861	
2.2.4.8		Portable device for searching insulation faults in ungrounded networks (IT systems) type BENDER EDS3091PG	pc.	1	1			10 061,908	10 395,000	333,092	
		<b>Sarbaiskiye MES branch</b>									
2.2.4.9		Computer testing system with software (RETOM-71)	pc.	2	2			50 761,521	119 378,000	68 616,479	
		<b>Severnye MES branch</b>									
2.2.4.10		Dual-channel oscilloscope	pc.	1	1			1 803,112	1 676,893	-126,219	

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				Plan	Actual						
1	2	3	4	5	6	7	8	9	10	11	12
		<b>Yuzhnye MES branch</b>									
2.2.4.11		Portable Voltamperphasometer device (type PARMA VAF-A (S)-2 with two clamps)	pc.	2	2			723,127	1 520,000	796,873	
2.2.4.12		Digital Multimeter New diagnostic data for maximum factory performance. The new 289 is a new generation of high performance industrial cutting multimeter designed to solve complex problems in electronics, automation, power distribution systems and electromechanical equipment. With the ability to log data and then graph it on screen, you can resolve problems faster and minimize downtime.	pc.	5	5			1 874,606	3 728,185	1 853,579	
2.2.4.13		Computer testing system with software (RETOM-71)	pc.	1	1			25 380,760	59 689,000	34 308,240	
<b>2.2.5</b>		<b>Communication equipment and dispatch and technical control facilities</b>	<b>pc.</b>	<b>46</b>	<b>40</b>			<b>24 954,928</b>	<b>19 261,428</b>	<b>-5 693,500</b>	
2.2.5.1		VHF radio station (mobile) (Bandwidth 144-174 MHz; Power output 25 W; Modulation type - phase; Power voltage 12/24V DC; Magnetic-based antenna; shockproof design)	pc.	8	8			2 295,271	1 216,000	-1 079,271	
2.2.5.2		Hand-held VHF radio station (Bandwidth: 144-174 MHz; Power output: 5 W; Modulation type: phase; Power voltage: built-in battery; shockproof design)	pc.	18	18			3 908,202	2 133,360	-1 774,842	
2.2.5.3		Fixed VHF radio station (VHF bandwidth 134-178 MHz; 16 channels; Power output 25W)	pc.	5	2			1 085,612	344,000	-741,612	
2.2.5.4		Satellite GPS synchronization source (Satellite GPS synchronization source, is a GPS time synchronization source used for areas that do not require the extremely high precision of 100 ns. generation of exact time signals in 1PPS, IRIG-B, IEEE 1344, 10 MHz, NMEA formats)	pc.	1	1			7 874,048	2 399,000	-5 475,048	
2.2.5.5		Long-range radiotelephone (with the operating frequency range permitted for the use of radiotelephones on the territory of the Republic of Kazakhstan, 1. Multichannel with autoscanning on dedicated channels 2. Multi-tube system (up to 99 tubes) 3. Speakerphone communication on handset 4. Speakerphone communication on the base station 5. Intercom 6. Memory for 30 numbers 7. LCD display with backlight)	pc.	1	0			130,394	0,000	-130,394	
2.2.5.6		Asynchronous server (16 serial RS-232/485 ports)	pc.	2	0			1 387,387	0,000	-1 387,387	
2.2.5.7		Power supply unit (RKP power supply unit - 1U, 2 rectifiers of 2 kW each, TCP/IP access controller)	pc.	6	6			1 417,329	3 540,000	2 122,671	
2.2.5.8		Loud-speaking amplification complex (power amplifier, microphone, 4 outdoor speakers. Maximum output power 120 W. 2 microphone inputs, 3 AUX inputs, 1 AUX output individual volume control for microphone and AUX input General volume control (MASTER), low and high frequency control (BASS TREBLE); 100 Volt and 4-16 Ohm output. Protection - AC fuse, short circuit, overload, high temperature Power requirements - 220 V, 50 Hz. (loudspeakers, cables, junction boxes)	pc.	1	1			674,918	172,116	-502,802	
2.2.5.9		Voice recorder (SRS VR-04 (4 channels), a complex system of multi-channel dispatcher conversations recording, PC-based)	pc.	1	1			3 613,570	8 444,444	4 830,874	
2.2.5.10		Wi-Fi radio modem (Equipment for high-speed radio communication channel, integrated point-to-point with an antenna for data transmission and telephony, Wifi technology, range up to 30 km. )	pc.	1	1			660,637	347,508	-313,129	
2.2.5.11		Satellite mobile terminal	pc.	2	2			1 907,560	665,000	-1 242,560	
<b>2.2.6</b>		<b>Computers and digital products</b>	<b>pc.</b>	<b>112</b>	<b>112</b>			<b>360 341,189</b>	<b>177 317,662</b>	<b>-183 023,527</b>	
2.2.6.1		Technological server (High-performance server for Sicam SaS: PC Sicam SAS)	pc.	6	6			9 193,570	9 186,000	-7,570	
2.2.6.2		Storage system (scalable storage system with two Fibre Channel / 10GbE controllers)	pc.	2	2			62 992,384	64 326,000	1 333,616	
2.2.6.3		Software - Vector Graphics Editor (License Software)	pc.	9	9			2 928,015	4 344,300	1 416,285	
2.2.6.4		Software for creating and editing vector images (Licensed software)	pc.	7	7			2 496,073	2 241,050	-255,023	
2.2.6.5		Estimates and resource development automation software (License software)	pc.	18	18			4 656,937	4 453,030	-203,907	

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1	2	3	4	5	6	7	8	9	10	11	12
2.2.6.6		Network core switch with optical ports (Stackable network core switch, 28,100/1,000 Base-X SFP ports, 4 x 10G SFP+ ports, included 5 1000BASE-SX MMF 850nm SFP optical modules for connecting access switches, additional power supply, stack-cable.)	pc.	16	16			63 559,819	34 447,282	-29 112,538	
2.2.6.7		Access switch (Access layer switch, 48 Ethernet 10/100/1000 ports, 4 SFP+ ports, PoE+ support, includes 2 1000BASE-SX MMF 850nm SFP optical modules for connecting to core switches, additional power supply.)	pc.	54	54			214 514,390	58 320,000	-156 194,390	
<b>2.2.7</b>		<b>Inventory for operation</b>	<b>pc.</b>	<b>198</b>	<b>198</b>			<b>103 865,301</b>	<b>140 959,877</b>	<b>37 094,577</b>	
		<b>Akmolinskiye MES branch</b>									
2.2.7.1		Deep well water pump ((380V, 2.2kW 3000 rpm, 16m3 / h, assembled with suction and discharge cables and hoses))	pc.	2	2			218,000	333,000	115,000	
2.2.7.2		Inverter welding machine ((10-250 A, 140-260 V))	pc.	1	1			86,000	67,540	-18,460	
2.2.7.3		Manual hydraulic press (hydraulic, pressed section: 10-300 mm2, maximum force: 12 t)	pc.	1	1			86,000	53,600	-32,400	
2.2.7.4		Drilling machine ((dimensions of the base plate: 330x350x300 mm, power of the machine's drive motor 710 W))	pc.	1	1			364,000	363,000	-1,000	
2.2.7.5		Grinding machine ((dimensions of the base plate: 370x230x260 mm, disk diameter: 200 mm, circle thickness: 25 mm, machine drive motor power: 600 W))	pc.	1	1			216,000	215,000	-1,000	
2.2.7.6		Digital multimeter ((DC voltage: 200mV/2000mV/20V/200V/500V (0.5%+2), AC voltage: 200V/500V (1.2%+10), DC: 200uA/200mA/10A (1%+2))	pc.	2	2			30,000	30,000	0,000	
2.2.7.7		Set of slings ((textile loop, 4*4 tonnes, L-6m, tape width 120mm, textile loop, 1*1 tonne, L-1.5m, tape width 35-60mm))	pc.	2	2			144,000	142,560	-1,440	
2.2.7.8		Installation for processing transformer oil, UVM-10 (capacity no less than 10 m3/h; maximum power consumption 185.225 kW; weight no more than 2900 kg)	pc.	1	1			27 550,000	46 289,000	18 739,000	
2.2.7.9		Mounting pulleys for rolling out one conductor on an overhead line M1R-7 (pulleys M1R-7 is designed for mounting a conductor (22.4-33.2 mm in diameter) This pulleys is made of aluminum alloys with a fairly low weight of only 16 kg. Withstands a breaking load of at least 37.5 kN. Very convenient to use)	pc.	30	30			1 950,000	962,373	-987,627	
2.2.7.10		Mounting pulleys for rolling out one ground wire on an overhead line M1R-5 (pulleys M1R-5 is designed for mounting a wire (8.4-13.5 mm in diameter) This pulley is made of aluminum alloys with a fairly low weight of only 6.14 kg. Withstands a breaking load of at least 6.25 kN. Very convenient to use)	pc.	15	15			532,500	217,530	-314,970	
2.2.7.11		Mounting block with eye (HQG (L) 3,2t) (capacity, tonnes: 3.2; number of rollers: 1; rope diameter, mm: 15.5; roller diameter, mm: 132; weight up to 9.0 kg. attachment point through the eye)	pc.	3	3			167,700	116,100	-51,600	
		<b>Aktyubinskiye MES branch</b>									
2.2.7.12		Laser rangefinder (PLL2+tripod TT-150, BOSCH. The type of device is a laser level. Laser diode: 640nm. Laser class: 2. The diameter of the working area is 10. The measurement accuracy of the level is +0.5/-0.5mm/m. Automatic leveling range +4/-40. Battery type is AAA. Measurement time: 5s)	pc.	1	1			20,890	101,984	81,094	
2.2.7.13		Sharpening machine (Grinding machine, double EXPERT, backlight lamp, disk 200 x 25 x 32 mm, 600 W)	pc.	1	1			47,176	47,176	0,000	
2.2.7.14		Pump for pumping out groundwater (TU3631-025-05747979-2003 Power: 1100W. Voltage: 380V)	pc.	1	1			86,052	105,100	19,048	
2.2.7.15		Manual hydraulic electrical installation press (range of sections: copper and aluminum tips: 10-300 mm2. Maximum force: 12t, Piston stroke: 20 mm. Weight 4 kg, Length: 470 mm)	pc.	1	1			28,134	43,259	15,125	
2.2.7.16		SF6 gas filling device (Self-sealing connections to prevent gas emissions; 5 m hose DN8, sensor in bar, DILO connection with valves DN8 and DN20)	pc.	1	1			719,109	719,109	0,000	
2.2.7.17		Non-autonomous hydraulic press (With a pumping station and a set of dies. Maximum diameter of aluminum clamp: 52mm. Pressure: 68.5 MPa. Rod stroke: 26mm. Oil volume: 132 cm3. Force: 30 t. Weight: 17.5 kg)	pc.	1	1			3 078,915	4 960,000	1 881,085	
2.2.7.18		Ohmmeter (Device for measuring ground resistance)	pc.	1	1			93,364	93,364	0,000	
2.2.7.19		Mounting block with hinged cheek (Mounting block with folding cheek, lifting capacity 1.5 tons)	pc.	5	5			196,851	179,120	-17,731	

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				Plan	Actual						
1	2	3	4	5	6	7	8	9	10	11	12
2.2.7.20		Mounting block with hinged cheek (Mounting block with folding cheek, lifting capacity 5 tons)	pc.	5	5			473,720	412,130	-61,590	
2.2.7.21		Insulator fork with screws for replacing various insulators (for PS-70E)	pc.	1	1			123,735	495,000	371,265	
2.2.7.22		Insulator fork with screws for replacing various insulators (for PS-6A)	pc.	1	1			123,735	495,000	371,265	
2.2.7.23		Insulator fork with screws for replacing various insulators (for PSD-70E)	pc.	1	1			123,735	495,000	371,265	
2.2.7.24		Insulator fork with screws for replacing various insulators (for PS-120B)	pc.	1	1			123,735	495,000	371,265	
2.2.7.25		Insulator fork with screws for replacing various insulators (for PS-120V)	pc.	1	1			123,735	495,000	371,265	
2.2.7.26		Insulator fork with screws for replacing various insulators (for PS-160B)	pc.	1	1			123,735	477,320	353,585	
2.2.7.27		Insulator fork with screws for replacing various insulators (for PS-210B)	pc.	1	1			123,735	477,320	353,585	
2.2.7.28		Insulator fork with screws for replacing various insulators (for PSV-210A)	pc.	1	1			123,735	476,331	352,596	
		<b>Almatinskije MES branch</b>									
2.2.7.29		Fire motor pump with automatic water intake (Fire motor pump "Geysir-1600" petrol)	pc.	2	2			3 610,813	2 895,000	-715,813	
2.2.7.30		Electric grinder (Angle grinder Bosch GWS 22-180 LVI Professional, power consumption 2200 W)	pc.	3	3			148,482	174,108	25,626	
2.2.7.31		Installation for pumping in and pumping out SF6 gas (Vacuum pumps for pumping out SF6 gas from a Mini Serie circuit breaker)	pc.	1	1			20 013,580	38 099,000	18 085,420	
2.2.7.32		Mounting block with hinged chick 1.5 tons (BO-15 (BO-1.5) Diverter block)	pc.	1	1			22,497	42,000	19,503	
2.2.7.33		Mounting block with hinged cheek 10 tons (Mounting block with and eye and hinged cheek, lifting capacity 10 tons)	pc.	1	1			78,740	118,000	39,260	
2.2.7.34		Mounting block with hinged chick 3 tons (BO-30 (BO-3) Diverter block)	pc.	1	1			31,159	58,509	27,350	
2.2.7.35		Mounting block with hinged chick 5 tons (BO-50 (BO-5) Diverter block)	pc.	1	1			43,307	75,247	31,940	
2.2.7.36		Single-acting, two-stage hydraulic pump station with gasoline drive. The hydraulic press, non-autonomous. Matrices 63 pcs and high pressure hoses (40 meters); high pressure hoses (15 m)(HPE-2A EP-60S)	pc.	1	1			6 146,578	6 085,112	-61,466	
2.2.7.37		Cable grip puller with replaceable inserts (Replaceable inserts (23-26mm, 26-29mm, 29-32mm) for gripping and pulling aluminum and steel-aluminum wires (cables) d from 22.8 to 32 mm. Puller body made of heat treated steel with high wear resistance. Special surface treatment to protect against oxidation. Light weight. Wire diameter, mm - 22.8 - 32. Breaking load, kN-225; Maximum safe load, kN-75; Weight. kg - 7)	pc.	2	2			158,184	405,900	247,716	
2.2.7.38		Pulley (Brand: MIP-7-0)	pc.	30	30			793,500	1 398,360	604,860	
2.2.7.39		Manual lever hoist 3 t 3 meters (JET JLPA 3T 3m 887615)	pc.	1	1			81,151	80,000	-1,151	
2.2.7.40		Manual lever hoist 6 t 6 meters (R-tech 6 t 6 m)	pc.	1	1			96,417	140,550	44,133	
2.2.7.41		Device for performing work on suspension insulation strings on 110÷750 kV overhead lines (Device for performing work on suspension insulation strings of 110÷750 kV overhead lines SM-150)	pc.	1	1			565,800	1 210,000	644,200	
		<b>Vostochnye MES branch</b>									
2.2.7.42		Insulator fork included with a screw tie for replacing PS-120B insulators: Clamp (insulator fork, top), Clamp (insulator fork, bottom), Screw coupler capacity 2.5 tons, Bracket SK-7-1, Storage box	pc.	1	1			897,641	468,423	-429,218	
2.2.7.43		Insulator fork included with a screw tie for replacing PS-160D insulators: Clamp (insulator fork, top), Clamp (insulator fork, bottom), Screw coupler capacity 2.5 tons, Bracket SK-7-1, Storage box	pc.	1	1			897,641	468,423	-429,218	
2.2.7.44		Insulator fork included with a screw tie for replacing PS-210V insulators: Clamp (insulator fork, top), Clamp (insulator fork, bottom), Screw coupler capacity 2.5 tons, Bracket SK-7-1, Storage box	pc.	1	1			897,641	468,423	-429,218	

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	Regulated services (goods, works) and the service area	Description of actions	Unit of measure	Quantity in natural indices		Period of service rendering under the investment programme		Plan	Actual	Deviation	
				Plan	Actual						
1	2	3	4	5	6	7	8	9	10	11	12
2.2.7.45		Вайма в комплекте с винтовой стяжкой для замены изоляторов ПС-300В: Clamp (insulator fork, top), Clamp (insulator fork, bottom), Screw coupler capacity 2.5 tons, Bracket SK-7-1, Storage box	pc.	1	1			897,641	468,423	-429,218	
		<b>Zapadnye MES branch</b>									
2.2.7.46		High-voltage insulation tester (AMM-2093)	pc.	1	1			621,765	1 561,000	939,235	
2.2.7.47		Water pump	pc.	1	1			50,619	336,600	285,981	
2.2.7.48		Manual hydraulic press (PGRS-300A (KVT))	pc.	1	1			44,500	77,398	32,898	
2.2.7.49		Pulleys (suspended) for unrolling conductors of overhead power lines (M1R-5-0)	pc.	10	10			415,000	286,350	-128,650	
2.2.7.50		Pulleys are designed to perform installation work related to suspension and repair of ground wire cables on power lines (PP-180-20)	pc.	10	10			415,000	323,730	-91,270	
2.2.7.51		Installation ladder (TRML-0.3-5)	pc.	1	1			574,000	1 425,000	851,000	
2.2.7.52		Pulley for wires and cables (RU-02)	pc.	1	1			890,800	1 039,730	148,930	
2.2.7.53		Cable grip puller (SKL-15)	pc.	3	3			185,700	96,477	-89,223	
2.2.7.54		Cable grip puller (M3-32)	pc.	3	3			246,300	190,320	-55,980	
2.2.7.55		Hydraulic universal cutter. (S – 550 (S-55A))	pc.	1	1			1 071,900	1 000,000	-71,900	
2.2.7.56		Mounting clamp (MZ-29/41)	pc.	2	2			247,600	143,550	-104,050	
		<b>Sarbaiskiye MES branch</b>									
2.2.7.57		Laboratory scales (Maximum weighing limit, g - 150; Discreteness, g - 0.001; Accuracy class according to GOST 24104-01 - II (High); Calibration weight - 100 g, F1; Lowest weighing limit, g - 0.02)	pc.	1	1			169,733	268,450	98,717	
2.2.7.58		Welding machine (Main voltage, V 220 ± 15%; Current consumption, no less than, A 20; Rated power, no less than, kVA 4.5; Welding current control range, A (MMA/MIG) 5-200; Operating arc voltage, no less , B 18)	pc.	1	1			166,319	157,985	-8,334	
		<b>Severnye MES branch</b>									
2.2.7.59		Pump (Capacity: 25 m3/hour. Flow: 20 meters. Asynchronous motor power: 1.5 kW Temperature conditions at which it is possible to use GNOM 25-20-1.5 pumps - from 0 to +600C. Electric motor power supply - 220 V, 50 (60) Hz)	pc.	1	1			61,171	160,000	98,829	
2.2.7.60		Multifunctional mobile scaffolding (number of crossbars - 2x8; weight kg. - 18.6; platform length, mm - 1377; platform width, mm - 497; working height, mm - 3144 height from ground to platform, mm - 1344; railing height, mm - 756 step step, mm - 260; total height, mm - 2137; total depth, mm - 1000, total width, mm - 1530; flooring material - plywood 10mm; traverse width, mm - 1000)	pc.	2	2			554,000	608,000	54,000	
2.2.7.61		Hydraulic pumping station (Double-acting, two-stage, gasoline-driven and manual distribution. (HPE-4M, Maximum pressure: 68.5 MPa Oil volume: 10.0 l Gasoline engine: 4-stroke, 3.0 hp Dimensions (L x H x W): 670 x 405 x 475 mm Weight: 60.0 kg Capacity: 7.5/1.2 l/min)	pc.	1	1			10 595,200	6 991,511	-3 603,689	
2.2.7.62		Non-autonomous double-acting hydraulic press (IZUMI EP-100W, Rod stroke: 22 mm Oil volume: 314 cm3 Dimensions (L x H): 200 x 350 mm (with support) Weight: 32.0 kg Force: 99.9 t)	pc.	1	1			6 585,600	4 937,699	-1 647,901	
2.2.7.63		Dies for hydraulic crimper (SEP-100W)	pc.	1	1			245,700	242,550	-3,150	
2.2.7.64		Dies for hydraulic crimper (A36EP-100W)	pc.	1	1			245,700	242,550	-3,150	
2.2.7.65		Dies for hydraulic crimper (A43EP-100W)	pc.	1	1			245,700	245,000	-0,700	
2.2.7.66		Dies for hydraulic crimper (M11A16EP-100W)	pc.	1	1			245,700	245,000	-0,700	
2.2.7.67		Dies for hydraulic crimper (C24EP-100W)	pc.	1	1			245,700	245,000	-0,700	
2.2.7.68		Dies for hydraulic crimper (C27EP-100W)	pc.	1	1			245,700	242,550	-3,150	
2.2.7.69		Dies for hydraulic crimper (C33EP -100W)	pc.	1	1			245,700	245,000	-0,700	
2.2.7.70		High pressure hoses (RVD length 20 m with half coupling, IZUMI (set - 2 pcs.)	pc.	1	1			705,600	705,549	-0,051	
2.2.7.71		Manual winch (pulling force 5 tons, force on the handle at minimum load - 11.2 kgf, rope capacity - 135 m, rope diameter - 20 mm, weight without metal cable - 310 kg, overall dimensions - 1016x890x1066mm, number of service personnel - 2 people )	pc.	1	1			71,700	88,822	17,122	



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				Plan	Actual						
1	2	3	4	5	6	7	8	9	10	11	12
2.2.9.1		Carbon dioxide fire extinguisher (OU-2)	pc.	8	8			64,000	64,106	0,106	
2.2.9.2		Carbon dioxide fire extinguisher (OU-5)	pc.	8	8			64,000	96,433	32,433	
2.2.9.3		Carbon dioxide fire extinguisher (OU-10)	pc.	5	5			40,000	156,454	116,454	
2.2.9.4		Carbon dioxide fire extinguisher (OU-20)	pc.	5	5			40,000	302,600	262,600	
2.2.9.5		Carbon dioxide fire extinguisher (OU-80)	pc.	5	5			40,000	690,700	650,700	
2.2.9.6		Powder fire extinguisher (OP-2)	pc.	8	8			103,500	22,786	-80,714	
2.2.9.7		Powder fire extinguisher (OP-5)	pc.	5	5			40,000	26,548	-13,452	
2.2.9.8		Powder fire extinguisher (OP-10)	pc.	10	10			80,000	78,400	-1,600	
2.2.9.9		Powder fire extinguisher (OPU-5)	pc.	2	2			16,000	20,200	4,200	
2.2.9.10		Powder fire extinguisher (OPG-10)	pc.	2	2			16,000	26,490	10,490	
2.2.9.11		Carbon dioxide fire extinguisher (OU-25)	pc.	2	2			16,000	160,220	144,220	
2.2.9.12		Powder fire extinguisher (OP-100)	pc.	2	2			16,000	151,200	135,200	
2.2.9.13		Fire point stand (enclosed set, ShchP-E, complete)	pc.	15	15			450,000	2 418,232	1 968,232	
2.2.9.14		Fire fighting equipment panel (enclosed set, ShchP-A, complete)	pc.	5	5			150,000	500,054	350,054	
2.2.9.15		Fire box for sand (volume 0.5 m³)	pc.	10	10			150,000	570,000	420,000	
2.2.9.16		Fire cabinet (ShPK310 (1 valve) 540x650x230mm)	pc.	2	2			24,000	34,716	10,716	
2.2.9.17		Fire cabinet (ShPK310 (1 valve, 1 fire extinguishers) 540x650x230mm)	pc.	4	4			48,000	96,648	48,648	
		<b>Aktyubinskiye MES branch</b>									
2.2.9.18		Powder fire extinguisher (OP-2)	pc.	1	1			6,900	3,083	-3,817	
2.2.9.19		Powder fire extinguisher (OP-5)	pc.	3	3			24,000	11,520	-12,480	
2.2.9.20		Carbon dioxide fire extinguisher (OU-100)	pc.	1	1			8,000	153,850	145,850	
2.2.9.21		Carbon dioxide fire extinguisher (OU-5)	pc.	6	6			48,000	61,560	13,560	
2.2.9.22		Carbon dioxide fire extinguisher (OU-10)	pc.	2	2			16,000	53,880	37,880	
2.2.9.23		Carbon dioxide fire extinguisher (OU-20)	pc.	1	1			8,000	77,900	69,900	
2.2.9.24		Fire point stand (enclosed set, ShchP-V, complete)	pc.	2	2			60,000	120,000	60,000	
2.2.9.25		Fire point stand (Complete set ShchP-E. class E, closed with a net door, set)	pc.	2	2			60,000	367,080	307,080	
2.2.9.26		Metal box for sand (with a square side length of a-400mm and a volume of 0.5 m3)	pc.	6	6			90,000	263,580	173,580	
2.2.9.27		Fire pump (GOST-7499-85)	pc.	7	7			210,000	574,000	364,000	
		<b>Almatinskie MES branch</b>									
2.2.9.28		Carbon dioxide fire extinguisher (OU-5)	pc.	8	8			64,000	101,400	37,400	
2.2.9.29		Carbon dioxide fire extinguisher (OU-20)	pc.	8	8			64,000	503,520	439,520	
2.2.9.30		Carbon dioxide fire extinguisher (OU-10)	pc.	6	6			48,000	160,643	112,643	
2.2.9.31		Carbon dioxide fire extinguisher (OU-80)	pc.	4	4			24,000	525,518	501,518	
2.2.9.32		Powder fire extinguisher (OP-5)	pc.	6	6			48,000	32,405	-15,595	
2.2.9.33		Powder fire extinguisher (OP-2)	pc.	8	8			55,200	31,911	-23,289	
		<b>Vostochnye MES branch</b>									
2.2.9.34		Carbon dioxide fire extinguisher (OU-5 ST RK GOST R 510572005)	pc.	8	8			64,000	126,160	62,160	
		<b>Zapadnye MES branch</b>									
2.2.9.35		Powder fire extinguisher (OP-5)	pc.	10	10			80,000	47,100	-32,900	
2.2.9.36		Fire column, set (KP-A)	pc.	2	2			60,000	140,000	80,000	
2.2.9.37		Carbon dioxide fire extinguisher (OU-5)	pc.	5	5			40,000	72,980	32,980	
2.2.9.38		Powder fire extinguisher (OP-2 for vehicles)	pc.	20	20			138,000	55,200	-82,800	
		<b>Tsentralnye MES branch</b>									
2.2.9.39		Carbon dioxide fire extinguisher (OU-80)	pc.	2	2			16,000	355,432	339,432	
2.2.9.40		Carbon dioxide fire extinguisher (OU-25)	pc.	4	4			32,000	314,004	282,004	
2.2.9.41		Carbon dioxide fire extinguisher (OU-5)	pc.	5	5			40,000	68,900	28,900	
		<b>Yuzhnye MES branch</b>									
2.2.9.42		Carbon dioxide fire extinguisher (OU-2 ST RK GOST R 510572005)	pc.	1	1			8,000	8,281	0,281	
2.2.9.43		Carbon dioxide fire extinguisher (OU-5 ST RK GOST R 510572005)	pc.	9	9			72,000	139,438	67,438	
2.2.9.44		Carbon dioxide fire extinguisher (OU-20)	pc.	6	6			48,000	343,090	295,090	
2.2.9.45		Powder fire extinguisher (OP-2)	pc.	8	8			55,200	37,694	-17,506	
2.2.9.46		Powder fire extinguisher (OP-5 ST RK GOST R 510572005)	pc.	5	5			40,000	22,357	-17,643	
2.2.9.47		Powder fire extinguisher (OP-10 ST RK GOST R 510572005)	pc.	7	7			54,000	67,361	13,361	
<b>2.2.10</b>		<b>Safety equipment</b>	<b>pc.</b>	<b>161</b>	<b>161</b>			<b>7 994,245</b>	<b>9 983,561</b>	<b>1 989,316</b>	
2.2.10.1		Portable grounding for switchgear up to 1000 V (3 rods with clamps, S = at least 16 mm2)	pc.	10	10			363,390	266,578	-96,812	
2.2.10.2		Portable earthing for 10 kV switchgear (PZR-10)	pc.	5	5			181,695	205,193	23,498	

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				Plan	Actual						
1	2	3	4	5	6	7	8	9	10	11	12
2.2.10.3		Portable grounding for switchgear up to 35 kV (three-phase, S = at least 25 mm2)	pc.	10	10			560,090	542,120	-17,970	
2.2.10.4		Portable grounding for switchgear up to 110 kV (three-phase, S = at least 25 mm2)	pc.	5	5			357,945	340,737	-17,208	
2.2.10.5		Portable grounding for overhead lines up to 35-220 kV (three-phase, S = at least 25 mm2)	pc.	25	25			1 545,000	3 113,835	1 568,835	
2.2.10.6		Portable grounding for switchgear up to 500 kV (three-phase, S = at least 25 mm2)	pc.	10	10			1 280,800	1 343,504	62,704	
2.2.10.7		Portable grounding for overhead lines up to 330-500 kV (single-phase, S = at least 25 mm2)	pc.	10	10			731,250	726,075	-5,175	
2.2.10.8		Portable earthing for 330-500 kV groundwire cable (PZT-330-500)	pc.	5	5			176,340	317,895	141,555	
2.2.10.9		Portable grounding for vehicles (1-phase, at least 16 mm2 size)	pc.	5	5			140,500	176,372	35,872	
2.2.10.10		Voltage indicator up to 1000 V (Universal, for electrical installations 0.4 kV)	pc.	15	15			66,000	132,717	66,717	
2.2.10.11		Voltage indicator over 1000 V (With light and sound indication, for electrical installations 6-10 kV)	pc.	15	15			342,195	254,473	-87,722	
2.2.10.12		Voltage indicator over 1000 V (With light and sound indication, for electrical installations 35-220 kV)	pc.	15	15			736,605	616,718	-119,887	
2.2.10.13		Voltage indicator for phasing (To check phase matching, for electrical installations 6-10 kV)	pc.	10	10			214,290	181,007	-33,283	
2.2.10.14		Clamp meter up to 1000 V (K4505Ts)	pc.	5	5			169,645	269,308	99,663	
2.2.10.15		Insulating rod (operational) up to 10 kV (Insulating rod up to 10 kV)	pc.	10	10			58,000	84,765	26,765	
2.2.10.16		Insulating rod (universal with head) up to 35 kV (Insulating rod up to 35 kV)	pc.	5	5			70,500	92,383	21,883	
2.2.10.17		Robotic first aid manikin, Gosha-01 (complete with Gosha computer simulator program“	pc.	1	1			1 000,000	1 319,880	319,880	