

List of TOP Priority Needs for Ukrainian Power System

Summarized information on the most urgent needs for the restoration of the destroyed infrastructure of enterprises of the fuel and energy complex of Ukraine as a result of missile strikes for June - July (as of July 18, 2023)

Classifier	Equipment	Unit measurement	Quantity
Car towers (car lifts with cradle)	Comet New EuroSky 28 telescoping auto hydraulic lifter on a Ford Trucks 1833 DC chassis. lift height 28 m.	piece	1.00
	AP-18 aerial platform based on Iveco. Auto-hydraulic lift with boom reach of at least 18 meters, double cabin (5 seats), hydraulic auto-triggers	piece	2.00
	Autolift The 36 m auto tower is on a 4*4/6*6 chassis	piece	2.00
	Car Iveco Daily 60C15 D double cab Autolift 18 m. IV-AGP 18 hydraulic lift	piece	5.00
	AP-32 car lift	piece	4.00
	Car lifts, 36 m, 6x6. Auto-hydraulic lift with a boom of at least 26 meters, double cabin (5 seats), hydraulic auto-triggers	piece	1.00
	AGP Dasan DS340 34m on MAZ 5302 4*4 chassis (or similar).	piece	6.00
	Car lift, 18 m..	piece	4.00
	AP-18 car lift	piece	18.00
	AP-18 car lift	piece	40.00
	Auto-hydro lift with a height of 28 m.	piece	2.00
	Hydraulic car lift with a working platform lifting height of 40 m on a MERSEDES - BENZ AROCS truck chassis with a 6x6 wheel formula.	piece	5.00
	Car lift with a working platform lifting height of 18m with a 4-door, 5-seater (including the driver's seat) cabin, or similar. Working lifting height, m - 18.	piece	27.00
	TA-60 4*4 car lift with ALTEC installation (manufacturer in the USA) with a console crane similar to AT-20/7 4*4 car lift with KLUBB EGI E20P installation (France manufacturer) with a special workshop integrated into the car lift.	piece	6.00
	SOCAGE car lift model DA328 (28m).	piece	1.00
	Heavy traffic tower. The maximum possible lifting height of the basket (height from the ground level to the floor of the basket) is not less than 25 meters.	piece	5.00
	Autolift	piece	1.00
	SOCAGE T318 mobile crane on IVECO Daily 4x4 chassis	piece	20.00
Car lift TA-60 4*4 with an ALTEC installation (manufacturer in the USA) with a console crane similar to	piece	2.00	
Mercedes-Benz UNIMOG U5000 truck lift truck with TA60 type lift	piece	1.00	

Car towers (car lifts with cradle)

153.00

TOTAL:

Truck cranes	GROVE GMK 3055 mobile crane	piece	1.00
	LIEBHERR LTM 1055 3.2 Autodaru mobile crane	piece	1.00
	XCMG QY25K5D mobile crane. Mobile crane, load capacity 25 t, chassis 6x4	piece	1.00
	Mobile crane, load capacity 25 t, chassis 6x4	piece	1.00
	Mobile crane with a carrying capacity of 32 tons based on the KrAZ-6322 all-wheel drive chassis (6x6). Mobile crane with a carrying capacity of at least 32 tons based on a four-wheel drive chassis with a wheel formula - 6x6, engine - diesel, number of boom sections - at least 4, boom design - U-shaped	piece	1.00
	Mobile crane with a load capacity of 60 tons. Load capacity -6000 kg, boom length 11740-45500 mm	piece	1.00
	KS-5571 mobile crane based on MAZ-6317 6x6 chassis	piece	8.00
	Mobile cranes with a carrying capacity of 16 tons	piece	2.00
	Mobile cranes with a carrying capacity of 32 tons	piece	2.00
	Liebherr LTM 1050-3.1 mobile crane with a load capacity of up to 50 t. Maximum load capacity - up to 50 t, telescopic boom - 38 m, maximum lifting height - 54 m, maximum reach of the boom - 44 m, number of axles - 3	piece	1.00
	Drilling and crane machine "BKM-2M". Drilling depth up to 2.3 m, load capacity up to 2 tons.	piece	4.00
	Drilling and crane rig BKM-2M based on KhTA-200 or similar. the diameter of the hole is 420 mm, the maximum depth of the hole is 2.5 m, the load capacity of the crane equipment is 2 tons, the maximum lifting height of the load boom is 7 m.	piece	3.00
	Drilling and crane vehicle on a 4x4 chassis, drilling diameter 45 cm, depth 3 m.	piece	1.00
	Cargo lifting mechanisms - mobile cranes over 40t (75t-150t)	piece	10.00
	Car crane, 16 t. Car chassis 6x6, load capacity up to 32 t, telescopic boom	piece	1.00
	Car crane, 32 t. Car chassis 6x6, load capacity up to 16 t, telescopic boom	piece	1.00
	Car crane. Load capacity 18 t.	piece	6.00
	A crane with a load capacity of 100 tons.	piece	1.00
	Self-propelled crane Liebherr LTM 1050-3.1. Max. Carrying capacity 50 tons.	piece	1.00
	MAN car Truck crane 20t	piece	1.00
hydraulic truck crane with a load capacity of 25 tons, on a car chassis with a 6 x 6 wheel formula), or similar. Load capacity with normal/dangerous goods: 25 t.	piece	4.00	
KTA-28 mobile crane based on the KrAZ-65053 car or similar.	piece	3.00	

	Mobile crane with a carrying capacity of at least 40 tons. XCMG QY50KD mobile crane Manufacturer XCMG (China);	piece	1.00
	PALFINGER SANY Palfinger Sany SRC 250 MAN TGM 26.320 6x4 BB CH mobile crane (wheel formula 6x4).	piece	1.00
	Liebherr LTM 1080 or LTM 1090 mobile crane or similar. Load capacity: 80t / 90t. Boom length: 48 m / 52 m. Boom length: 19 m. Weight 48 tons. Dimensions of the crane in the transport position: Length: 12.6 m. Width: 2.75 m. Height: 3.85 m.	piece	2.00
	Mobile crane XCT25-S, max. load capacity 25 t, telescopic boom up to 40 m, max. ascent height - 48 m	piece	1.00
	XCMG XCT55_S mobile crane, max. load capacity 55 t, telescopic boom up to 40 m, max. ascent height - 60 m	piece	1.00
	Truck crane. The carrying capacity is not less than 25 tons, the wheel formula of the chassis is 6*4; KRAZ-65101 KTA-25 or similar	piece	1.00
Truck cranes TOTAL:			62.00
Brigade cargo-passenger cars	Peugeot Boxer 435 L3H2 (4x4 all-wheel drive. Peugeot Boxer 435 L3H2 (4x4 all-wheel drive	piece	4.00
	Renault EXPRESS (5-seater) ZEN.	piece	40.00
	Bus for the transportation of brigades	piece	1.00
	Volkswagen T6.1 Kasten PRO L1H1 EU6 4MOTION car	piece	2.00
	Mitsubishi L200 4x4 brigade car	piece	12.00
	Isuzu truck on NPR 75L-M chassis	piece	3.00
	Truck lift with a lifting height of 30-34 m based on an IVECO 4x4 chassis (or similar)	piece	1.00
	Squad car 4x4 (number of seats - at least 7)	piece	1.00
	JAC double cab truck.. JAC double cab truck.	piece	10.00
	Cargo on-board awning, cabin 5 seats. On-board awning car, double passenger cabin H2L3	piece	46.00
	Cargo-passenger van FORD TRANSIT. FORD TRANSIT V363 KOMBI/DOUBLE CAB IN VAN EURO 5 F310L3H2 125 TREND	piece	1.00
	Pickup "Ford Ranger" 1996 cm ³ (170 hp) XLT. 4x4, closed body, 4 passengers	piece	4.00
	Pickup "Ford Ranger" 1996 cm ³ (170 hp) XLT. Double cab (5 seats), pickup truck, 4x4 all-wheel drive chassis, diesel engine, manual gearbox.	piece	5.00
	Pickup truck Mitsubishi L200.	piece	2.00
	Mitsubishi L200 four-wheel drive car (for operational and field teams). Diesel engine, 4x4	piece	3.00
	Special 4x4 emergency vehicle, 7-seater cabin.	piece	6.00
	Car "KRAZ-250"	piece	2.00
AVTR-AB62V4423 patrol bus on Iveco Eurocargo chassis.	piece	7.00	

	Watch car AVTR-AB2S4409 on ISUZU NPS chassis.	piece	7.00
	4x4 cargo pickup. 4x4 frame-type cargo pickup with rubber for difficult road conditions; not less than 140 hp (103 kW); fuel: diesel, EURO 5;	piece	10.00
	Brigade van "IVECO Daily55S18 4x4"	piece	28.00
	Armored car (based on TOYOTA HILLUX or similar)	piece	6.00
	The car is a passenger car	piece	40.00
	The car is four-wheel drive with a 4x4 wheel formula, body type - pickup, number of seats - 5, engine - diesel	piece	2.00
	All-wheel drive truck with 4x4 wheel formula, number of seats - at least 6, engine - diesel	piece	14.00
	All-wheel drive passenger car, body type - minivan, number of seats - at least 8, engine - diesel, gearbox - mechanical, length - L3	piece	13.00
	Volkswagen T6.1 Kasten PRO L1H1 EU6 4MOTION or similar	piece	12.00
	Special shift car (emergency workshop), - welder's post, generator and welding machine, winch, places for shift personnel	piece	5.00

Brigade cargo-passenger cars
TOTAL:

287.00

Cars for the transportation of
reinforced concrete pillars
(carriers)

Cars for the transportation of reinforced concrete pillars (carriers)

piece

7.00

Cars for the transportation of
reinforced concrete pillars
(carriers) TOTAL:

7.00

Cars with a manipulator

TOYOTA 32-8FGF25. Load capacity 2.5 tons, lifting height 4 m

piece

1.00

A car with a crane-manipulator and a basket up to 5 tons.

piece

1.00

On-board car with FORD TRUCKS 3542 manipulator crane or similar

piece

2.00

Manipulator car MAN 19.414 Komplekt 2000

piece

2.00

car with a semi-trailer 12.5 meters w/p 25 tons with a manipulator crane type Palfinger 15500 w/p 8 tons or similar

piece

2.00

On-board vehicle with a 5 t manipulator crane. 6x6 vehicle chassis, load capacity up to 5 t, manipulator with a tow truck basket

piece

2.00

On-board vehicle with a manipulator crane. Load capacity 3.2 tons with Palfinger PK8500 manipulator

piece

8.00

	A truck with a semi-trailer and a manipulator. Semi-trailer 12.5 meters 25 tons with a manipulator crane of the Palfinger type, 15500 8 tons or similar	piece	4.00
	truck with a semi-trailer with a carrying capacity of 25 tons for the transportation of supports and a crane-manipulator installation of 8 tons. Transportation of supports, wires and transformers	piece	2.00
	Crane is a manipulator. Manipulator crane on a basic chassis, load capacity 10.0 t.	piece	5.00
	Crane is a manipulator. Manipulator crane on a basic chassis, load capacity 6.3 tons.	piece	5.00
	Manipulator rear mower RASCO FLEXIMA 5000 with TORNADO 1300S mowing attachment.	piece	1.00
	Truck on-board car with a manipulator.	piece	5.00
	A truck with a CMU HIAB X-CL 16 B3 with a semi-trailer.	piece	3.00
	RENAULT Premium Lander 450.26.	piece	1.00
	Flatbed truck, wheel formula 4x2, load capacity - at least 4.5t, engine - diesel, number of seats - at least 2	piece	5.00
	Isuzu NPR 75L-M chassis truck with manipulator	piece	6.00
	Basic manipulator crane Fassi F 135 A.0.2 5. Load moment -11-13 tm, boom reach 6-14.3 m, load capacity up to 5.7 t. Angle of rotation 390 °	piece	1.00
	HIAB X-CL 16 B-3 Crane-manipulator on Daewoo MCV chassis. Maximum extension 10.5 m, maximum lifting height -12.8 m, extension-carrying capacity -3.1-4.5 t	piece	2.00
	Truck with manipulator. Vehicle carrying capacity at least 10 tons, chassis wheel formula 6*4, Installation carrying capacity at least 9 tons; VARZ MB-3341 or similar	piece	4.00
Cars with manipulator TOTAL:			62.00

Dump trucks	Dump truck. 20 tons	piece	2.00
	Ford Trucks dump truck. FORD TRUCKS 1833D (Construction), body volume: 10 cubic meters.	piece	1.00
	Dump truck MAN TDG 41.460 8X8 B/B, Euro 6, Meiler Kiper, Allra	piece	1.00
	dump truck	piece	5.00
	dump truck Load capacity 12 tons.	piece	6.00
	dump truck Load capacity 12 tons (asphalting brigade)	piece	1.00
	dump truck Load capacity 20 tons.	piece	4.00
	dump truck Carrying capacity 10 tons, 8 cubic meters	piece	4.00
	Cargo dump truck.	piece	2.00
	Dump truck TGM 18.250 4x2 BL CH. The new MAN Truck Generation.	piece	1.00
	HOWO dump truck Chassis 6X4, 20 tons.	piece	2.00
	dump truck	piece	1.00

	Dump truck, wheel formula 4x2, load capacity - not less than 6t, unloading direction - on three sides, engine - diesel, number of seats - not less than 2	piece	2.00
	DAEWOO NOVUS dump truck 25t, body volume 10-19 m3	piece	3.00
	Dump truck. Carrying capacity at least 13 tons, platform volume 8-10 m3; KRAZ-6510 or similar	piece	4.00
Dump trucks TOTAL:			39.00
Trucks	Car tractor up to 25 tons.	piece	3.00
	Tractor unit. The carrying capacity of the car is not less than 25 tons, the wheel formula of the chassis is 6*4; MAZ-6425X9-433 or similar	piece	6.00
	Tractor unit. Increased cross-country ability with a 6x6 wheel formula, a cabin with a sleeping place	piece	5.00
Trucks TOTAL:			14.00
Truck loaders	Manitou MI 70 D (G) truck loader. Load capacity - 7000 kg, lifting height - 6000 mm	piece	1.00
	Forklift "MANITOU MLT-X 625 - 75 H". Load capacity - 2500 kg, lifting height - 5900 mm	piece	1.00
	Truck loader "Toyota 8FD30". Load capacity - 3000 kg, lifting height - 3000-7000 mm	piece	1.00
	JCB 541-70 truck loader. Load capacity - 4100 kg, lifting height - 7000 mm	piece	1.00
	Forklift electric 3t.	piece	2.00
	Telescopic loader. Carrying capacity 4 tons	piece	2.00
	Truck loader. 1.5m3	piece	1.00
	Truck loader. 3m3	piece	1.00
	WECAN CPCD30FR forklift. Load capacity 3t, engine power 40 kW, fork lift height -3m. Turning radius - 2.5 m. Dimensions 2580x1230x2110 Weight - 4.3 tons.	piece	1.00
	Mini loader Bobcat S650HF. Load capacity 1.2t, tipping load 2.4t, pump performance 87.1/115.5 l/min. (Additional equipment - hydraulic hammer HB 0980)	piece	1.00
	JCB 155 mini loader	piece	1.00
	Bulk loader Terex Fuchs MHL350C. 6-cylinder turbodiesel, P=148kW, working volume-7.2 l, radius of action 16m, grab volume-0.6m3	piece	1.00
	JCB 435S front loader	piece	1.00
	Industrial forklift truck JCB TLT 35D 2WD CONSTRUCTION.	piece	1.00
	Electric trolley Anhui Heli Co., Ltd.	piece	1.00
	Autohydraulic lift, lifting height 36 m, chassis 4x4	piece	1.00
Forklifts TOTAL:			18.00

Road transport (other)	Vacuum polywasher cleaning machine. The volume of the bunker is 6 m ³	piece	1.00
	Fuel tank 10 tons (11 m ³). Fuel tank 10 tons (11 m ³). The tank is divided into two containers of 5 tons each with separate pumps with a capacity of at least 80 l*min. and dispensing columns with meters for dispensing fuel.	piece	2.00
	Mobile emergency repair workshop. Chassis 6x6. Diesel engine with a capacity of at least 330 hp. Single-slope splint. Denyo DLW 400 LSW welding unit or similar.	piece	8.00
	Mobile steam generator type UPP 1600/100 or similar. The heating medium is water, steam power 1600 kg/h, steam pressure up to 9.81 MPa, steam temperature up to 310 C, fuel type - diesel	piece	2.00
	Special emergency vehicle with a tank. Tank 5 m ³ for feeding boilers with water	piece	1.00
	Thermal bunker. A specialized machine for transporting asphalt mixture (asphalting brigade)	piece	1.00
	A car with a trailer of 80 tons	piece	1.00
	ATZ-11 CAR FUEL FILLER.	piece	12.00
	Mobile compressor station.	piece	10.00
	IVECO-AMT EuroCargo ML210E28WS (6x6). Wheel formula: 6x6	piece	1.00
	Machines for pumping out water (Sewage)	piece	2.00
	Mobile laboratory for gas leak detection GAZOMAT VSR MK 3 Digit	piece	6.00
	Renault Range T/T-Series. Wheel base: 3800 mm Wheel formula: 4x2	piece	1.00
	Renault Kerax 6X6 with foamer, diesel, gross weight 34 t, operational calculation 1+4 people, water tank 7 t, foamer tank 2.2 t, carriage barrel brand SM-60, (or similar)	piece	1.00
	Passenger car. Wheel formula 4x4.	piece	10.00
	4x4 pickup truck. Cargo-passenger pick-up with a capacity of 5 people, a load capacity of 750 kg, four-wheel drive; TOYOTA HILUX or similar	piece	24.00
	The car is a passenger SUV. Clearance - at least 210 mm; Drive - 4x4	piece	7.00
	Cargo vehicle, special (operational). Clearance - at least 300 mm; Drive - 6x6; Height - no more than 3.5 m	piece	1.00
	4x4 pickup truck. Cargo-passenger pick-up with a capacity of 5 people, a load capacity of 750 kg, four-wheel drive. TOYOTA HILUX or similar	piece	20.00
	Watch bus. All-wheel drive cargo chassis 4x4. Passenger capacity 18-22 people.	piece	5.00
Board car. 4x4 chassis with a "double" cab. Carrying capacity 3 tons. Passenger capacity 5 people.	piece	2.00	
Road transport (other) TOTAL:			118.00
Autotransformers	Autotransformer AODTSTN-210000/400 400 kV	piece	2.00
	Autotransformer ATDCTN-250000/330 (Rated power 250 MVA, HV=330 kV, MV=150 kV, LV=11 kV)	piece	1.00
	Autotransformer ATTSTN-125000/330/110-77U1 330 kV	piece	1.00

Autotransformers TOTAL: 4.00

Accumulator batteries	Accumulator batteries of constant current (gel) with a capacity of 250 A*h, with a voltage of 220 V	piece	1.00
	Accumulator batteries of constant current (gel) with a capacity of 150 A*h, with a voltage of 12 V/cell	piece	1.00
	Accumulator batteries of constant current (gel) with a capacity of 600 A*h, with a voltage of 220 V	piece	1.00
	Accumulator battery SP-12-55, 55 Ah, 238 V	piece	19.00
	Accumulator batteries for optical fiber communication systems at energy facilities in Kyiv (Un=12 V, with a capacity of at least 17 A*h; battery type - gel/AGM/lithium-phosphate/(LiFePO4)	piece	232.00
	Backup power supply cabinet "EZHU I 14000 B48/320-xx (I output.48B=270A)" consisting of lithium-iron-phosphate batteries (LiFePO4) Possible manufacturer LLC TD Integral	kit	7.00

Batteries TOTAL: 261.00

The valve is closed	Lock nut steel Du 20	piece	500.00
	Lock nut steel Du 50	piece	100.00
	Welded full-pass faucet BREEZE 11s37p Du 100/100	piece	5.00
	Welded full-pass faucet BREEZE 11s37p Du 150/150	piece	2.00
	BREEZE 11s37p welded full-pass faucet Du 20/20	piece	100.00
	BREEZE 11s37p welded full-pass faucet Du 50/50	piece	20.00
	BREEZE 11s37p welded full-passage faucet Du 80/80	piece	5.00
	Ball valve 11s39p DU 40 RU 16	piece	60.00
	Needle valve steel fitting-nipple type 15s54bk. Nominal diameter: 6-25 mm. Working pressure: 16.0 MPa.	piece	20.00
	Two-leaf inter-flange non-return valve Ду150 Py10/16	piece	10.00
	Disc rotary valve DN200 PN16	piece	20.00
	Disc rotary valve DN150 PN16	piece	20.00
	Disc rotary valve DN100 PN16	piece	20.00
	Latch steel Du 500 Ru 25 type 30s65nzh	piece	12.00
	Steel latch Du 200 Ru 25 type 30s65nzh	piece	15.00
	Steel latch D 150 Ru 25 type 30s65nzh	piece	15.00
	Steel latch D 100 Ru 25 type 30s65nzh	piece	25.00
	Latch steel Du 80 Ru 25 type 30s65nzh	piece	60.00
	Steel latch Du 250 Ru 25 type 30s65nzh –	piece	25.00
	Ventilation fitting 1" for stop systems SS200-SS300/12 TM Ravetti	piece	400.00
	Rubber ring DN 2" NBR DIS.460016 for stop system SS1 TM Ravetti	piece	80.00

	Rubber ring DN 2"1/2 NBR DIS.460017 for stop system SS1 TM Ravett	piece	80.00
	Rubber ring DN 3" NBR DIS.460032 for stop system SS1 TM Ravetti	piece	80.00
	Rubber ring DN 4" NBR for stop system SS3 TM Ravetti	piece	80.00
	Rubber ring DN 6" NBR for stop system SS3 TM Ravetti	piece	80.00
	Rubber ring SS DN200 for stop system SS200/12 TM Ravetti	piece	40.00
	Rubber ring SS DN250 for stop system SS250/12 TM Ravetti	piece	20.00
	Rubber ring SS DN300 for stop system SS300/12 TM Ravetti	piece	20.00
	Set of technological equipment Stop system TM RAVETTI (Italy)	piece	3.00
	Lock nut steel Du 25	piece	300.00
	Lock nut steel Du 32	piece	50.00
	Lock nut made of steel Du 40	piece	50.00
	Welded full-pass faucet 11s37p Du 100/100	piece	50.00
	Welded full-pass faucet 11s37p Du 150/150	piece	20.00
	Welded full-pass faucet 11s37p Du 50/50	piece	100.00
	Welded full-pass faucet 11s37p Du 80/80	piece	50.00
	Welded full-pass faucet 11s37p Du 20/20	piece	2500.00
	Welded full-pass faucet 11s37p Du 25/25	piece	100.00
	Welded full-pass faucet 11s37p Du 32/32	piece	100.00
	Mini-Stop Ravetti (Italy)	piece	12.00
	Pneumatic equipment for controlling the equipment of drilling machines. Conditional passage - 15mm-16mm; Working pressure of compressed air - 0.8 MPa; The maximum allowable compressed air pressure is 1.2 MPa	piece	530.00
	Shaped products. FLS 3 1/16 15,000 psi latch with service kit; 3" 15,000 psi shutoff valve with service kit; 2" 15,000 psi shutoff valve 10, style 20, style 30, style 60, style 100; WYES Tees 3" 15 K Fig. 1502 M Fig. 1502 F x Fig. 1502 F, Side Integrals 3" 15 K Fig. 1502 M Fig.	kit	95.00
Locking fittings TOTAL:			5874.00

The armature is linear	Die clamp PA 3-2	piece	100.00
	Connecting cable coupling Raychem POLT-24 for a cable with cross-linked polyethylene insulation with a section of 1x120 mm2	piece	63.00
	Connecting cable coupling Raychem POLT-24 for a cable with cross-linked polyethylene insulation with a section of 1x150 mm2	piece	6.00

			10
	Connecting cable coupling Raychem POLT-24 for a cable with cross-linked polyethylene insulation with a cross-section of 1x240 mm2	piece	129.00
	Connecting cable sleeve Raychem POLT-24 for a cable with cross-linked polyethylene insulation with a section of 1x400 mm2	piece	129.00
	Connecting cable sleeve Raychem POLT-24 for a cable with cross-linked polyethylene insulation with a section of 1x500 mm2	piece	42.00
	Connecting cable coupling Raychem POLT-24 for a cable with cross-linked polyethylene insulation with a section of 1x70 mm2	piece	411.00
	End cable coupling Raychem POLT-24 for a cable with cross-linked polyethylene insulation with a section of 1x120 mm2	piece	96.00
	End cable coupling Raychem POLT-24 for a cable with cross-linked polyethylene insulation with a cross section of 1x150 mm2	piece	12.00
	End cable coupling Raychem POLT-24 for a cable with cross-linked polyethylene insulation with a section of 1x240 mm2	piece	36.00
	End cable coupling Raychem POLT-24 for a cable with cross-linked polyethylene insulation with a section of 1x400 mm2	piece	30.00
	End cable coupling Raychem POLT-24 for a cable with cross-linked polyethylene insulation with a section of 1x500 mm2	piece	12.00
	End cable coupling Raychem POLT-24 for a cable with cross-linked polyethylene insulation with a section of 1x70 mm2	piece	30.00
	Cap K-9	piece	360.00
	Connecting clamp SOAS-95	piece	100.00
	Die clamp PA 2-2	piece	100.00
	Bandage fastener	piece	240.00
Linear armature TOTAL:			1896.00
Oil and gas fittings	Transition PE/ST GAZ Day 32/25	piece	2000.00
	Transition PE/ST GAZ Dn 63/57	piece	50.00
	Thread steel Du 20	piece	500.00
	Thread steel Du 50	piece	100.00
	Elbow PE 100 SDR 11 Dn 110 (Thermoresistive)	piece	30.00
	Elbow PE 100 SDR 11 Dn 125 (Thermoresistive)	piece	10.00
	Elbow PE 100 SDR 11 Dn 140 (Thermoresistive)	piece	10.00

Elbow PE 100 SDR 11 Dn 160 (Thermoresistive)	piece	10.00
Elbow PE 100 SDR 11 Dn 180 (Thermoresistive)	piece	10.00
Elbow PE 100 SDR 11 Dn 200 (Stykova)	piece	10.00
Elbow PE 100 SDR 11 Dn 225 (Stykova)	piece	10.00
Elbow PE 100 SDR 11 Dn 280 (Stykova)	piece	10.00
Elbow PE 100 SDR 11 Dn 315 (Stykova)	piece	10.00
Elbow PE 100 SDR 11 Day 32 (Thermoresistive)	piece	2000.00
Elbow PE 100 SDR 11 Dn 40 (Thermoresistive)	piece	50.00
Elbow PE 100 SDR 11 Dn 400 (Stykova)	piece	10.00
Elbow PE 100 SDR 11 Dn 50 (Thermoresistive)	piece	50.00
Elbow PE 100 SDR 11 Dn 63 (Thermoresistive)	piece	100.00
Elbow PE 100 SDR 11 Dn 75 (Thermoresistive)	piece	30.00
Elbow PE 100 SDR 11 Dn 90 (Thermistor, 90 degrees)	piece	30.00
Combined home gas pressure regulator Pietro Fiorentini FE-10 V	piece	1000.00
Transition PE/ST GAZ Day 110/100	piece	10.00
Transition PE/ST GAZ Day 160/150	piece	10.00
Transition PE/ST GAZ Day 200/200	piece	10.00
Transition PE/ST GAZ Day 315/300	piece	10.00
Transition PE/ST GAZ Day 400/400	piece	4.00
Thread steel Du 25	piece	300.00
Thread steel Du 32	piece	50.00
Thread steel Du 40	piece	50.00
Flat steel flange (Du 100)	piece	50.00
Flat steel flange (Du 80)	piece	50.00
Flat steel flange DN 57 (Дy 50)	piece	100.00
Flat steel flange Dn 76 (Dun 65)	piece	50.00
Molded fitting for RSS DN 10" for stop system SS250/12 TM Rave	piece	20.00
Molded fitting for RSS DN 12" for stop system SS300/12 TM Rave	piece	20.00
Molded fitting for RSS DN 2 1/2" for stop system SS1 TM Ravetti	piece	80.00
Molded fitting for RSS DN 2" for stop system SS1 TM Ravetti	piece	80.00
Molded fitting for RSS DN 3" for stop system SS1 TM Ravetti	piece	80.00
Molded fitting for RSS DN 4" for stop system SS2 TM Ravetti	piece	40.00
Molded fitting for RSS DN 6" for stop system SS3 TM Ravetti	piece	40.00

			12
	Molded fitting for RSS DN 8" for stop system SS200/12 TM Ravett	piece	40.00
Oil and gas fittings TOTAL:			7124.00
Gasoline	Gasoline A-92	tons	250.00
	Gasoline. A-92, A-95	tons	1800.00
Gasoline TOTAL:			2050.00
Block control panel	A set of equipment for the automatic process control system of blocks N9, 10	piece	1.00
Block control board TOTAL:			1.00
Drilling and crane machines	Drilling machine MRK-750 or similar. Car chassis 6x6, drilling depth up to 5 m, d drilling 0.75-1 m	piece	2.00
Drilling and crane machines TOTAL:			2.00
Transformer inputs	Input for autotransformer 245 kV	piece	5.00
	Input for autotransformer 400 kV	piece	5.00
	Input of transformer 150 kV GKT III 60-172/2000	piece	3.00
	Transformer input 330 kV GKT III 60-363/1000	piece	3.00
	Input transformer 330 kV	piece	6.00
Transformer inputs TOTAL:			22.00
Switches are automatic	Automatic circuit breaker FMC3/3U 250A 8-12In	piece	300.00
	AUTO OFF VA-2004 3R 125A	piece	11.00
	AUTO OFF MOD. 1P C16 6KA	piece	5.00
	Automatic circuit breaker FMC7/3U 3P 1000A 80kA (8-12In)	piece	80.00
	Automatic circuit breaker FMC5/3U 3P 630A 50kA (5-10In)	piece	50.00
	Automatic circuit breaker FMC5/3U 3P 400A 50kA (5-10In)	piece	60.00
Automatic switches TOTAL:			506.00
Vacuum switches	Vacuum switch, 6 kV, 4000 A, Short-circuit current - up to 63 kA (1 pc.)	piece	1.00
	Vacuum switch, 6 kV, 4000 A, Short-circuit current - up to 50 kA (2 pcs.)	piece	2.00
	Vacuum switch of the internal installation at a voltage of 6 kV, 630A, Short-circuit current - up to 40 kA (5 pcs.)	piece	5.00

	Vacuum switch BB/TEL-10 12.5kA / 630A	piece	9.00
Vacuum switches TOTAL:			17.00
Electric gas switches	Electric and gas switch 110 kV	piece	3.00
	Electric and gas switch LTB 420E2 330 kV	set of 3 phases	1.00
	Electric gas switch SF6 330 kV	set of 3 phases	6.00
	Electric and gas switch 110 kV	piece	2.00
	Electric and gas switch 150 kV	piece	1.00
	Electric and gas switches HPL245B1/220kV/4000/50kA, or similar	piece	5.00
	Electric and gas switches LTB 170D1/154kV/3150/40kA, or similar	piece	6.00
	Electric and gas switches LTB 420E2/330kV/4000/40kA, or similar	piece	13.00
	Electric and gas switch with spring drive BLK-222, console for current transformers and RZA, type LTB-170D1/B 150 kV	set of 3 phases	35.00
	Electric and gas switch 110 kV GL312F1	piece	1.00
	Electric and gas switch 110 kV LTB145D1	piece	2.00
	Electric and gas switch with built-in current transformer of the COMPASS type, manufactured by Hitachi Energy	piece	1.00
	Electro gas switches of the LTD145D1/B "ABB" type	set of 3 phases	2.00
Electric and gas switches TOTAL:			78.00
Air switches	20 kV substation load switch	piece	50.00
Air switches TOTAL:			50.00
Measuring devices	GOLIATH gas analyzer or similar	piece	63.00
	ELLI laser leak indicator	piece	6.00
	Gasification alarm VibraGas or similar	piece	24.00
	Fluke Ti450 SF6 gas leak detection thermal imager	piece	6.00
	High-voltage measuring device (at a voltage of 200-250 kV)	piece	1.00
	The measuring complex. Flowtek VR-2 or similar.	piece	2.00
	Honeywell sensors and controllers. Honeywell sensor and controller system	piece	300.00
	Control and measuring devices.	piece	114.00
Measuring devices TOTAL:			516.00

			14
Gas	Liquefied gas. Component composition of liquefied gas according to EN 27941	piece	1.00
Gas TOTAL:			1.00
Gas turbine installations	Gas piston unit Wärtsilä 34SG 10MW	piece	33.00
	Gas turbine installation with a capacity of 12 MW	piece	2.00
	25 MW gas turbine plant (GE GT2500 Gen 6/8)	piece	3.00
	Gas turbine generator, 32 MW capacity, FT8 Mobilepac Gas Turbine with Battpac	piece	2.00
Gas turbine installations TOTAL:			40.00
Generator 100-300 kW	Stationary diesel power station with a capacity of at least 200 kW with a protective cover for use on an open site.	piece	1.00
Generator 100-300 kW TOTAL:			1.00
Engines (other)	Internal combustion engine.	piece	6.00
Engines (other) TOTAL:			6.00
Diesel	Diesel fuel DP	tons	250.00
	Diesel fuel. Summer/winter	tons	15000.00
Diesel TOTAL:			15250.00
Jacks	Hydraulic jacks 5 tons.	piece	5.00
	Rail jacks	piece	5.00
Jacks TOTAL:			10.00
Excavators	Excavator - loader 3CX. Loader bucket capacity 1.0 m ³ ; excavator bucket 0.24 m ³ (for asphaltting crew)	piece	4.00
	Excavator - loader 5CX. Loader bucket capacity 1.3 m ³ ; excavator bucket 0.3 m ³	piece	3.00
	Excavator - loader BOBCAT B780. Excavator - a loader with a 4x4 wheel formula, a digging depth of at least 5m, a loader bucket capacity of at least 1m3, an excavator bucket at least 0.2m3.	piece	1.00
	Backhoe excavator.	piece	2.00
	Excavator JCB 3CX 14H5WM. Model: 14H5WM, Engine power: 81 kW, Engine type: diesel, Mileage: 192 m/h, Weight: 8600 kg	piece	1.00

	Crawler single-bucket excavator. Crawler single-bucket excavator: bucket volume 1.0-1.2 m ³ ; diesel engine with a turbocharger with a volume of no more than 5000 cm ³ ; engine power 110-140 kW; weight 20-23 tons; the width of the excavator with standard tracks is no more than 2.6 m; analog of the excavator - JCB JS 220NLC	piece	7.00
	Wheel excavator 160W. Full-turn wheel excavator (bucket capacity 0.9 m ³)	piece	2.00
	Wheel excavator JCB JS175W. The nominal capacity of the bucket is not less than 0.85 m ³ . The maximum digging depth of the excavator along the edge of the bucket teeth is not less than 5800 mm.	piece	1.00
	Excavator, bucket 0.9m ³ .	piece	4.00
	Excavator. digging depth - at least 5.4 m, bucket volume - 0.5 m ³ , bucket width - 880 mm	piece	1.00
	Excavator. With additional attachments - a drill and a jackhammer. JCB 3cx or similar	piece	3.00
	Excavator. With additional attachments - a drill and a jackhammer. JCB 5cx or similar	piece	2.00
	Excavators, 0.3m ³ bucket, drill, jackhammer. 0.3 m ³ bucket, drill, jackhammer	piece	1.00
	Backhoe loaders JCB 3CX Sitemaster or similar. Engine power, kW/hp 68.6/92 Steering mode 2WS Digging depth, m 5.46 Front bucket capacity, cubic meters 1.0 Loading capacity of the loader/excavator, kg 3229/1451 Weight, t 8.07	piece	6.00
	backhoe loader JCB 3CX or similar.	piece	1.00
	Backhoe loader TARSUS 885. bucket: 1.1m ³ /0.25m ³	piece	1.00
	Wheeled multifunctional backhoe loader JCB model 3CX ECO SITEMASTER. Nominal power 68.5 kW\92 hp.	piece	1.00
	Mini excavator with a digging depth of up to 1.5 m. Repair of cable lines	piece	3.00
	Mini excavator JCB 15C-1/JCB 16C-1/JCB 8018	piece	1.00
	Excavator - loader Bobcat.	piece	3.00
	Backhoe loader HIDROMEK 102.	piece	1.00
	Backhoe loader JCB 3CX ECO, or similar.	piece	3.00
	Backhoe loader.	piece	1.00
	Backhoe loader MST M544, bucket 0.5-1/2 m ³ , digging depth - not less than 5.8m	piece	5.00
	Excavator, bucket 0.5 to 1.2 m ³ , digging depth - at least 5,820 m, bucket width - 880 mm / bucket 0.5 to 1.5 m ³ , digging depth - up to 6.0 m	piece	1.00
	Excavator JCB 3CX 14H5WM	piece	3.00
	Mini excavator VOLVO EC55C	piece	3.00
Excavators TOTAL:			65.00
Electric motors < 10 kW	Electric motor ZHEN AV-8000/6000	piece	1.00
	NPE-3 electric motor	piece	1.00

	Electric motors of the ZNPNT-3 unit	piece	2.00
	Electric motors NZU-3	piece	3.00
	Excavator pump electric motor type DAZO 13-67-6 6kV, 630kW, 1000rpm	piece	10.00
	Electric motor NTVC type A-114-4 6kV, 320kW, 1480rpm	piece	2.00
	Electric motors of oil pumps of feeding electric pump type A52-3 or equivalent.	piece	3.00
	Electric motors of pressure valves of the feeding electric pump type AOS-42-4 or equivalent	piece	3.00
	AIR132S4 electric motor	piece	2.00
Electric motors < 10 kW TOTAL:			27.00
Electric motors > 110 kW	Electric motor VAO-2 450M4 250kW 1500rpm 6000V	piece	2.00
	Electric motor VAO2-560 800/6	piece	1.00
	Electric motor VAO2-560-500 kW/6kV/1500 rpm	piece	2.00
	Electric motor VAO2-560-500/7	piece	1.00
	Electric motor of the ATM-3800-2 electric feeding pump or equivalent	piece	1.00
	AC-5000 electric feed pump electric motor or equivalent	piece	1.00
	The ATD-4000 electric feeding pump electric motor or equivalent	piece	1.00
	The electric motor of the backup exciter type ATK180Sabo equivalent	piece	1.00
Electric motors > 110 kW TOTAL:			10.00
Electric motors 11-110 kW	Electric motors KN BA12-41-4	piece	3.00
	Electric motor DRT-13MU5, 13 kW/1845 rpm. 130 V min	piece	2.00
Electric motors 11-110 kW TOTAL:			5.00
Electrotechnical laboratories	Mobile electrotechnical laboratory KAEL-5 on the chassis of a RENAYLT MASTER L3H3 car, or similar.	piece	2.00
	Mobile electrotechnical combined ETL laboratory on the chassis of a Ford Transit V363MCA Combi DC IN VAN F330 L3H2 130 TREND passenger car with passenger seats from 5 people or similar.	piece	1.00
	Electro laboratory on the chassis of a car van.	piece	1.00
Electrical laboratories TOTAL:			4.00
Electric fuses and accessories	Fuse PN2 630 A	piece	350.00
	PK-20 fuses	piece	120.00
Electric fuses and accessories TOTAL:			470.00

Spare parts	A set of fittings for the LEWA LDD1 dosing pump (50/250). For connecting existing components of the LEWA LDD1 dosing pump (50/250) and connecting to existing communications.	kit	54.00
Spare parts TOTAL:			54.00
Means of voice radio communication	The digital communication system for operational and mobile brigades (OBB) in Kyiv	kit	1.00
Means of voice radio communication TOTAL:			1.00
Tools for metal welding	Welding machines of inverter type 250A	piece	12.00
	Welding machines for butt welding of polyethylene pipes	piece	3.00
	Welding devices for thermistor welding of polyethylene	piece	3.00
	Welding machines of inverter type 400A	piece	1.00
	Autonomous welding machine with diesel power for 2 posts, fixed on the frame of a car trailer. Full weight up to 750 kg. Rated current 480A – 1 post and 250A – 2 posts, output power 9.9 kVA – 1 phase and 15.0 kVA – 3 phases.	piece	2.00
Means for welding metal TOTAL:			21.00
Personal protective equipment	Body armor of the 4th class of protection	piece	24.00
	Kevlar helmet	piece	24.00
	Body armor Protection class 4 (ceramics)	piece	1400.00
	Kevlar helmet. Protection class not lower than 3	piece	1400.00
Personal protective equipment TOTAL:			2848.00
Means of climate control	Fan VFV8 Stanley, included: air hose 20 m	piece	3.00
Means of climate control TOTAL:			3.00
Means of satellite communication	Satellite Internet set. Based on Starlink	kit	8.00

Means of satellite communication
TOTAL:

8.00

Electric connecting and tensioning clamps (linear and hardware)	TENSION CLAMP ZN-2.1	piece	128.00
	TENSION CLAMP ZN-2.3	piece	1710.00
	SUPPORT CLAMP ZP-3.1	piece	580.00
	Tension clamp ZN 1.1	piece	2000.00
	Tension clamp ZN 1.2	piece	2000.00
	Tension clamp ZN 1.5	piece	1400.00
	Tension clamp ZN 2.1	piece	2000.00
	Tension clamp ZN 2.2	piece	2000.00
	Clamp debranching piercing Z-2061	piece	2000.00
	Clamp debranching piercing Z-206	piece	1000.00
	Branching clamp ZV 1.1.4	piece	2000.00
	Branching clamp ZV 1.2.4	piece	2000.00
	Branching clamp ZV 1.2.0	piece	2000.00
	Branching clamp ZV 1.1.2	piece	2000.00
	Branching clamp ZV 1.2.2	piece	2000.00
	Support clamp ZP 3.1	piece	1900.00
	Support clamp ZP 3.2	piece	1900.00
	Tension clamp ZN-2.5	piece	1200.00
	Tension clamp ZN-2.4	piece	1710.00
	PSP 130 clamp	piece	175.00
	PSP 120 clamp	piece	144.00
	Tension clamp type SO 157.1	piece	26.00
	Tension clamp ZN-2.2	piece	82.00
Branching clamp ZV-1.2.3	piece	360.00	

Electric connecting and tension clamps (linear and hardware)
TOTAL:

32315.00

Insulators

Insulator LKTS-35/70

piece

108.00

	INSULATOR SHF-20	piece	202.00
	Pass-through insulator IP-20/3150-12.5 UHL1	piece	60.00
	Support insulator 20 kV IO-20	piece	80.00
	Insulator S-4-80 20 kV	piece	20.00
Insulators TOTAL:			470.00
Suspended insulators	Insulator PS-70E	piece	1.00
	ShF-20 insulator	piece	360.00
	ISOLATOR PSD-70E	piece	10.00
Suspended insulators TOTAL:			371.00
Hydraulic tools	Heavy duty jackhammer, BRV20 Stanley, included	piece	2.00
	Lightweight jackhammer, CHV08 Stanley, included	piece	2.00
	Impact wrench IW12 (Stanley)	piece	6.00
Hydraulic tools TOTAL:			10.00
Electric tools	Angle grinder 1.5 kW	piece	12.00
	Angle grinder 2.5 kW	piece	12.00
	Circular saw COV10 Stanley, with a disc for concrete	piece	3.00
	Circular saw D19 for stop systems SS200-SS300/12 TM Ravetti	piece	200.00
	Circular saw HSS D.190mm DN. 8" for the stop system SS200/12 TM Rave	piece	20.00
	Circular saw HSS D.240mm DN.10" for stop system SS250/12 TM Rav	piece	10.00
	Circular saw HSS D.290mm DN.12" for stop system SS300/12 TM Rav	piece	10.00
	Circular saw mod. AV D.51mm ART.104 for stop system SS1 TM Ravet	piece	40.00
	Circular saw mod. AV D.64mm ART.104 for stop system SS1 TM Ravet	piece	40.00
	Circular saw mod. AV D.76mm ART.104 for stop system SS1 TM Ravet	piece	40.00
	Circular saw mod. TAD62 D.95mm ART.108 for stop system SS2 TM R	piece	20.00
	Circular saw mod. TAD88 D.140mm for stop system SS3 TM Ravetti	piece	20.00
Perforators 2.2 kW	piece	12.00	
Electric tools TOTAL:			439.00
Mechanical tools	Set of hexagonal heads, 6-36 mm	piece	24.00
	A set of combination keys (corner-cap) 6-32 mm	piece	24.00

	Pilot drill D.25 DN10" DIS.600052 for stop system SS250/12 TM Rav	piece	10.00
	Pilot drill D.25 DN12" DIS.600053 for stop system SS300/12 TM Rav	piece	10.00
	Pilot drill D.25 mm DN. 8" DIS.60 0051 for stop system SS200/12 TM	piece	20.00
	Pilot drill with clamp ART.122 D9mm DN 2" - 3" for SS stop system	piece	120.00
	Pilot drill with clamp art.123 D12mm DN "4-6" for SS3 stop systems	piece	40.00
Mechanical tools TOTAL:			248.00

Other	KTPBR 35 kV with two disconnectors, vacuum switch, current and voltage transformers, OPN-35 kV, relay protection and accounting cabinets	piece	1.00
	Pressure-suction sleeve for motor pump	m	15.00
	Pressure sleeve for motor pump	m	50.00
Other TOTAL:			66.00

Other relay protection and automation equipment	Emergency event recorder = 220V; 32 analog signals and 96 discrete signals	piece	5.00
Other relay protection and automation equipment TOTAL:			5.00

Other transformer equipment	Excitation system transformer TMP-3200/20V	piece	1.00
Other transformer equipment TOTAL:			1.00

Other turbogenerator equipment	160 MW generator	piece	1.00
	200 MW generator	piece	1.00
	THV-300 generator	piece	1.00
	The thyristor excitation system of the ARV-SD-21 generator	piece	1.00
	Backup exciter generator type VT 99/47-7 or equivalent	piece	1.00
Other turbogenerator equipment TOTAL:			5.00

Other tools and equipment	Three-element folding ladder up to 6 m	piece	10.00
	Huawei HK-305 Series Pipe Cutting Machines	piece	1.00

	Huawei HK-500 Series Pipe Cutting Machines	piece	1.00
Other tools and inventory TOTAL:			12.00
Other means of communication	High-frequency circuit breaker VZ-2000 PL-330kV Ternopil	piece	1.00
Other TOTAL means of communication:			1.00
Other tools and equipment	Separator block execution. 2-phase, with liquid purge valves and KVPiA sensors.	piece	2.00
	A complex of automatic gas odorization. The maximum flow rate of the supplied gas (m3/h under standard conditions according to the GTS code) 100 1000.	piece	1.00
	Leak detection system on condensate lines. Leak detection system on condensate lines	piece	1.00
	Horizontal atmospheric capacity. 5.0 - 20.0 m4	piece	18.00
	Thermal imager. Satir V90 or similar for detecting hydrocarbon leaks	piece	2.00
	LDAR – program for refineries. LDAR program for oil refineries and connection points of high and low pressure main lines	piece	1.00
	LDAR – program for brunch-lines. The LDAR program for longitudinal units of UGV.	piece	1.00
Other means and equipment TOTAL:			26.00
Other materials	Bandage tape	m	50.00
	Sleeve for steam lines. Inner diameter: 13-76 mm. Length: 0.47-12.00 m. Working temperature: -40°C... +210°C. Working pressure: at least 18 bar. Resistant to high temperatures, abrasion-resistant and ozone-resistant.	piece	1673.00
	Admissible steel seamless pipes. Admissible steel seamless pipes Ø 114.3x 9.65; Ø 88.9x 7.34; Ø 73.02x5.51 strength groups P-110, 0.5 - 4 m long, smooth with couplings	piece	36.00
Other materials TOTAL:			1759.00
Control cable	KVVG cable – 10x1.5	km	0.39
	KVVG cable – 10x2.5	km	0.22
	KVVG cable – 14x1.5	km	0.56
	KVVG cable – 14x2.5	km	0.26
	KVVG cable – 19x1.5	km	0.10
	KVVG cable – 19x2.5	km	0.75

	KVVG cable – 27x1.5	km	0.26
	KVVG cable – 27x2.5	km	0.52
	KVVG cable – 37x2.5	km	1.00
	KVVG cable – 4x2.5	km	0.69
	Cable KVVG ng–4x0.75	km	0.25
	Cable KVVG ng–27x0.75	km	0.07
	KVVG cable – 7x2.5	km	0.20
	Cable KVVGng 10x1.0	km	0.38
	KVVHng cable 10x1.5	km	1.50
	Cable KVVHng 14x1.0	km	1.03
	Cable KVVHng 14x1.5	km	2.50
	KVVHng cable 4x1.0	km	2.90
	KVVHng cable 4x2.5	km	0.25
Control cable TOTAL:			13.83

Power cable < 0.4 kV	Cable ABBГнГ-1 4x6 (drainage pit of block 3, drainage pit of block 6)	km	0.14
	AVVGng-1 4x10 cable (RV-3 oil pump)	km	0.07
	Cable AVVGng-1 4x16 (oil pump ZHENiv, RMNS-3, MNU-3A,B; RMNS-6, MNU-6A,B)	km	0.35
	AVVGng-1 4x4 cable (hydrogen installation fan TG-3, hydrogen installation fan TG-6)	km	0.10
Power cable < 0.4 kV TOTAL:			0.65

Power cable 0.4-1 kV	Cable AVVGng-1 4x25 (NRSH, DNY-6A,B; NW of block 6, DNY-3A,B; NW of block 3)	km	0.48
	AVVGng-1 4x35 cable (NGO-3A,B; NGO-6A,B; NDB-15m3-3A,B; NDB-15m3-6A,B)	km	0.25
	AVVGng-1 4x50 cable (PND-3A,B; PND-6A,B)	km	0.29
	KVPB cable – 14x2.5	km	0.60
	KVPB cable – 27x2.5	km	0.30
	KVPH cable – 7x2.5	km	0.34
	KVRBG cable – 10x2.5	km	0.93
	KVRBG cable – 14x1.5	km	0.20
	KVRBG cable – 14x2.5	km	1.58
	KVRBG cable – 19x2.5	km	2.56
	KVRBG cable – 24x2.5	km	0.45
	KVRBG cable – 27x2.5	km	1.56

	KVRBG cable – 37x2.5	km	1.46
	KVRBG cable – 4x2.5	km	0.97
	KVRBG cable – 7x2.5	km	0.20
	KNRBG cable – 14x2.5	km	0.74
	Compensation cable PTGVT-HK	km	0.14
	VVHng cable 4x121	m	300.00
	Power cable 0.4 kV	km	20.00
Power cable 0.4-1 kV TOTAL:			333.05

Power cable 6-35 kV	Power cable 20 kV with insulation from cross-linked polyethylene cross-section 1x120/70 mm2	km	6.70
	Power cable 20 kV with insulation from cross-linked polyethylene cross-section 1x150/70 mm2	km	1.10
	Power cable 20 kV with insulation from cross-linked polyethylene cross-section 1x240/70 mm2	km	14.49
	Power cable 20 kV with insulation from cross-linked polyethylene cross-section 1x400/70 mm2	km	11.40
	Power cable 20 kV with insulation from cross-linked polyethylene cross-section 1x500/95 mm2	km	6.00
	Power cable 20 kV with insulation from cross-linked polyethylene cross-section 1x70/25 mm2	km	35.10
	Cable AABGng-6 2(3x185) (FEMALE-3.6A)	km	0.13
	Cable AABGng-6 (3x185) (FEMALE-3.6B, FEMALE-3.6B)	km	0.27
	Cable AABGng-6 3x70 (KEN-3A, KEN-3B, KEN-3B, 65-T)	km	1.04
	Cable AABGng-6 3x95 (RV-3, PMT-6, PMT-3)	km	0.19
	APvEgaPu-20 cable 1x120 (g)/35	km	20.00
	APvEgaPu-20 cable 1x240 (g)/35	km	20.00
	Cable ASBI-10 3x120	km	1.00
	Cable ASBI-10 3x185	km	0.50
	10 kV power cable	km	30.00
35 kV power cable	km	21.00	
Power cable 6-35 kV TOTAL:			168.90

Complete distribution device (KRP)	Complete distribution devices for external installation of 20 kV	piece	55.00
	Distribution device 35 kV	kit	1.00
	Complete distribution devices for external installation with a voltage of 20 kV	piece	4.00
	KRUN cell with a voltage of 20 kV 630 A	piece	10.00
Complete switchgear TOTAL:			70.00

Components for computer equipment	Cable HDMI-DVI 1.5v	piece	5.00
Components for computer equipment TOTAL:			5.00

Compressors (other)	Compressor up to 10 At	piece	3.00
	Compressor station mobile PKSD - 5.25	piece	3.00
	Air compressor. Atlas Copco GA 18 Pressure out. 1.8 MPa or similar; Atlas Copco GA 55 Pressure out. 5.5 MPa or similar; DALGAKIRAN INVERSYS 90 PLUS Pressure out. 1.3 MPa or equivalent	piece	4.00
	Portable nitrogen compressor. Chassis: Wheel formula 6x6 or 8x8.	piece	4.00
	VRU compressor unit. Galileo Process MCP 100-3-1500-015-25 or similar	piece	4.00
	Compressor. Ariel JGT/2 or analogue, power 1029 kW	piece	1.00
	Compressor. Ariel JGJ4 or analogue, power 598 kW	piece	1.00
	Compressor. GasJack MP2 or similar (Inlet pressure - 3.5 atm, outlet pressure - 8.5 atm, 35 kW)	piece	20.00
	Compressor. Ariel JGC/4 or analog, power 1.995 kW	piece	2.00
Compressors (other) TOTAL:			42.00

Boiler equipment	Electric boiler	piece	2.00
	25MW biomass boiler	piece	2.00
Boiler equipment TOTAL:			4.00

Counters	Three-phase electric energy meter with built-in GSM modem (NIK 2307, NIK 2303, NIK 2104, MTX3, MTX1 and/or analogues)	piece	800.00
	Single-phase interval counters without communication interfaces (NIK 2104, NIK 2102, NIK 2100, MTX3, MTX1, CTK3, CTK1 and/or analogues)	piece	1000.00
	Three-phase interval counters without communication interfaces (NIK 2303, NIK 2104, NIK 2102, NIK 2100, MTX3, MTX1, CTK3, STK1 and/or analogues)	piece	2500.00
	Single-phase integral meters with a measurement accuracy class of not less than 2.0	piece	60500.00
	Modem for electricity meter on DIN rail CMe2100G3 for remote data transmission, produced by "Nordion Energi, Riggaregatan 57, Malmo, Sweden"	piece	1.00
	Electric energy meter single-phase NIK 2102-02.M2 (or analogue)	piece	124.00
	Electric energy meter three-phase NIK 2301 AP3.0000.0.11 (or analogue)	piece	15.00
	G-1.6 gas meter with remote data transmission	piece	500.00

	G-2.5 gas meter with remote data transmission	piece	1000.00
	G-4 gas meter with remote data transmission	piece	1000.00
	G-6 gas meter with remote data transmission	piece	100.00
	Single-phase electric energy meter with built-in GSM modem (NIK 2307, NIK 2303, NIK 2104, MTX3, MTX1 and/or analogues)	piece	200.00
	Single-phase electric energy meter with a built-in PLC module (NIK 2303, NIK 2104, NIK 2100, MTX3, MTX1 and/or analogues)	piece	1500.00
	Three-phase electric energy meter with a built-in PLC module (NIK 2303, NIK 2104, NIK 2100, MTX3, MTX1 and/or analogs)	piece	500.00
	Single-phase electricity meter with a built-in Lora Wan radio module single-phase (MTX3, MX1, CTK3, CTK1 and/or analogues)	piece	800.00
	Three-phase electricity meter with a built-in Lora Wan radio module (MTX3, MTX1, CTK3, CTK1 and/or analogues)	piece	200.00
	Three-phase integral meters with a measurement accuracy class of not less than 2.0	piece	2000.00
TOTAL counters:			72740.00

Materials for the repair of the gas distribution network	Steel outlet 90° Dn 27x2.5 (Du 20)	piece	100.00
	Steel outlet 90° D 33.7x2.6 (D 25)	piece	20.00
	Steel outlet 90° Dn 57x4 (Du 50)	piece	30.00
	Steel outlet 90° D 76x3 (D 65)	piece	20.00
	Steel outlet 90° D 89x4 (D 80)	piece	20.00
	Bend steel Du 20	piece	100.00
	Bend steel Du 50	piece	10.00
	Thermistor elbow PE 100 SDR 11 Day 32	piece	100.00
	Thermistor elbow PE 100 SDR 11 Day 63	piece	5.00
	Lock nut steel Du 20	piece	100.00
	Lock nut steel Du 50	piece	10.00
	Coupling steel Du 20	piece	100.00
	Coupling steel Du 50	piece	10.00
	Thermistor coupling PE 100 SDR 11 Day 32	piece	200.00
	Thermistor coupling PE 100 SDR 11 Dn 63	piece	10.00
Transition PE/ST GAZ Day 32/25	piece	100.00	

	Transition PE/ST GAZ Dn 63/57	piece	10.00
	Thread steel Du 20	piece	100.00
	Thread steel Du 50	piece	10.00
	Saddle outlet with PE 100 SDR 11 Dn 63/32 (Thermistor)	piece	50.00
	Methanol (reference technical conditions of IMPCA for methanol, the amount of C1...C5 alcohols is not less than 100%)	cubic m	1443.00
	Rotor block. R3J141-A1 or analog, supercharger C4	piece	1.00

Materials for gas distribution network repair TOTAL: 2549.00

Materials for electrical network repair	SS4-SS6 (200/12-300/12) STOP SYSTEM TM Ravetti for repairs	piece	2.00
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Materials for electrical network repair TOTAL: 2.00

Steel materials	Steel outlet 90° Dn 27x2.5 (Du 20)	piece	1000.00
	Steel outlet 90° D 33.7x2.6 (D 25)	piece	100.00
	Steel outlet 90° D 76x3 (D 65)	piece	50.00
	Steel outlet 90° D 89x4 (D 80)	piece	100.00
	Bend steel Du 20	piece	500.00
	Bend steel Du 50	piece	100.00
	Steel outlet 90° D 42.4x2.6 (D 32)	piece	50.00
	Steel outlet 90° D 48.3x2.6 (D 40)	piece	50.00
	Steel outlet 90° Dn 57x4 (D 50)	piece	100.00
	Steel outlet 90° D 159x4.5 (D 150)	piece	50.00
	Steel outlet 90° Dn108x4 (D100)	piece	50.00
	Bend steel Du 25	piece	300.00
	Bending steel Du 32	piece	50.00
Bend steel Du 40	piece	50.00	

Steel materials TOTAL: 2550.00

Metal detectors	Metal detector for inspection of gas pipes	piece	2.00
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Metal detectors TOTAL: 2.00

Mechanisms are special	Drilling and crane machine "BKM-2M"	piece	5.00
	Excavator "JCB" 3CX Sitemaster	piece	2.00
Mechanisms special TOTAL:			7.00
Mobile substations	Mobile substation 150 kV, 40000 kVA with transformer 40000 kVA 150/10/6 kV	piece	1.00
Mobile substations TOTAL:			1.00
Mobile premises	Block box. Placement of a small compressor station.	piece	5.00
Mobile premises TOTAL:			5.00
Couplings	Cable coupling 1 STP 6 4-150-240	kit	120.00
	Cable coupling 1 STP5 4-70-120	kit	50.00
	Cable coupling 10 KMP-M9 3x 150x240	kit	80.00
	Cable coupling 10 KMTP-M8 3x70x240	kit	50.00
	Cable coupling 10 STP-M9 150x240	kit	30.00
	Cable coupling 35STPO 70x120	kit	30.00
	Coupling steel Du 20	piece	500.00
	Coupling steel Du 50	piece	100.00
	Cable coupling POLT-42E/1XI-L12	kit	30.00
	Cable coupling POLJ-42F/1x120-240	kit	20.00
	Cable coupling POLJ-42F/1x500	kit	20.00
	Insulating T-adapter RICS-5133 (50-150)	piece	42.00
	Insulating T-adapter RICS-5143 (300)	piece	6.00
	Cable coupling 20 kV	piece	20.00
	Cable terminal coupling 20 kV	piece	20.00
	Coupling STp-10 (70-120)	kit	400.00
	Coupling STp-10 (150-240)	kit	200.00
	Coupling KNTp-10 (70-120)	kit	100.00
	Cable coupling POLT-42F/1XO (OXSU-F7151)	kit	30.00
	Coupling PE 100 SDR 11 Dn 110 (Thermistor)	piece	30.00
	Coupling PE 100 SDR 11 Dn 125 (Thermistor)	piece	10.00
	Coupling PE 100 SDR 11 Dn 140 (Thermistor)	piece	10.00

	Coupling PE 100 SDR 11 Dn 32 (Thermistor)	piece	2000.00
	Coupling PE 100 SDR 11 Dn 40 (Thermistor)	piece	50.00
	Coupling PE 100 SDR 11 Dn 50 (Thermistor)	piece	50.00
	Coupling PE 100 SDR 11 Dn 63 (Thermistor)	piece	100.00
	Coupling PE 100 SDR 11 Dn 75 (Thermistor)	piece	30.00
	Coupling PE 100 SDR 11 Dn 90 (Thermistor)	piece	30.00
	Coupling PE 100 SDR 17.6 Dn 160 (Thermistor)	piece	10.00
	Coupling PE 100 SDR 17.6 Dn 180 (Thermistor)	piece	10.00
	Coupling PE 100 SDR 17.6 Dn 200 (Thermistor)	piece	10.00
	Coupling PE 100 SDR 17.6 Dn 225 (Thermistor)	piece	10.00
	Coupling PE 100 SDR 17.6 Dn 280 (Thermistor)	piece	10.00
	Coupling PE 100 SDR 17.6 Dn 315 (TR)	piece	10.00
	Coupling PE 100 SDR 17.6 Dn 400 (Thermistor)	piece	10.00
	Coupling steel Du 25	piece	300.00
	Coupling steel Du 32	piece	50.00
	Coupling steel Du 40	piece	50.00
Clutches TOTAL:			4628.00

Pumps for various purposes	Excavator pump type HRT 1250/71 1250m ³ /h; 71 m	piece	10.00
	Submersible pump Stanley TPV16	piece	12.00
	Feed pump type PE 500-180 or equivalent	piece	1.00
	Feed pump type PE-640-180 or equivalent	piece	2.00
	The working oil pump of the feeding electric pump type VNL-25 or equivalent	piece	3.00
	Heat network pump type ЦН-400x105 or equivalent	piece	1.00
	Booster pump type PD-650x160 or equivalent	piece	1.00
	Gas cooling pump type	piece	2.00
	Gas cooler pump	piece	1.00
	Low-pressure heater drain pump type 8KSD5x3 or equivalent	piece	1.00
	Pump type X 20/31 or its analogues for pumping iron sulfate	piece	2.00
	Motor pump	piece	1.00
	Pump 300D90 (1080 M ³ /h; 70 m. of water, 315/6 kW/kV; 1500 rpm)	piece	3.00
	Pump 3K9 (50 M ³ /h; 3.4 m.v. st. 7/0.4 kW/kV; 3000 rpm)	piece	2.00
	Pump 6K8 (162 M ³ /h; 3.2 m.v. st. 20/0.4 kW/kV; 1500 rpm)	piece	1.00

	K-80-50-200 pump (50 M3/h; 50 m.v. st. 15/0.4 kW/kV; 3000 rpm)	piece	2.00
	Electric motor type DAZO4-450U-8U1 6 kV, 500 kW, 750 rpm.	piece	4.00
	Dry running vacuum pump. HSIHI dry M100 or similar, with a system of vacuum control and variation of productivity and washing of the working environment	kit	2.00
	Pump. Submersible, centrifugal. Productivity – 3.0 - 6.0 m3/h; The maximum pressure is 200 m, or more depending on the productivity; The supply voltage is within 380-400V	piece	37.00
	Pump unit for cementing and repair of wells. P=70 MPa	piece	6.00
	Dosing pump. LEWA LDD1 (50/250) or similar. The pumped liquid is methanol. Concentration from 0 to 100%. The working temperature of the liquid is from -10 to +40 °C. Density 0.75-1.05 g/cm3. Consumption - 50 l/hour. Working pressure 250 (Bar).	piece	30.00
	Submersible pump. Characteristics: ECV 6-10-141	piece	4.00
	Drilling pumps. Nominal power at 105 rpm...2200 hp.	piece	4.00
	Pump for hydraulic fracturing.	piece	1.00
	Pumps for injecting liquid foaming agents. 1) 20 GPD; 2) 1500 psi; 3) on solar batteries; 4) Availability: timer, charging relay, battery(s), chemical tank, solar panel(s), non-return valve, level sensor	piece	76.00
Pumps for various purposes TOTAL:			209.00
Equipment for extraction of hydrocarbon products	Setting Snubbing. Snubbing units 190K, 285K, 340K, or similar	piece	2.00
	Well Test separator. Well Test MC63/80-2 (MC-mobile separator; 63 - maximum working pressure, atm, 80 - throughput, 2 - two-phase); Well Test MC100/300-2; Well Test MC100/400 or analogues	piece	12.00
Equipment for extraction of hydrocarbon products TOTAL:			14.00
Equipment for gas networks	Mesh gas filter 100 mm	piece	21.00
	Mesh gas filter 50 mm	piece	50.00
	Mesh gas filter 65 mm	piece	10.00
	Mesh gas filter 80 mm	piece	10.00
Equipment for gas networks TOTAL:			91.00

			30
Equipment for the processing of hydrocarbon products	Green methanol plant. Installation for the production of methanol from CH4 and CO3	piece	1.00
Equipment for the processing of hydrocarbon products TOTAL:			1.00
Equipment for solar power plants	Inverter type TRIO-50.0-TL-OUTD manufactured by ABB	piece	50.00
Equipment for solar power plants TOTAL:			50.00
Surge limiters	Surge limiter 110 kV	set of 3 phases	3.00
		piece	6.00
	Surge limiter 330 kV	set of 3 phases	15.00
Surge limiters TOTAL:			24.00
Automotive oils	Automotive oil. Mobil Pegassus 1005: ASTM D 445 or equivalent	tons	67.13
Automotive oils TOTAL:			67.13
Other olives	Turbine oil. TP-22 or other mineral turbine oil ISO VG 32 (Shell Turbo Oil T32 or Mobil DTE832, etc.).	tons	30.00
	Motor oil. For 2-stroke engines 15W-40 (Shell Mysella S2Z or similar); CAT NGE0 ADVANCED 40 or similar, viscosity index SAE 15W-40	tons	20.00
	Oil for turbines. Shell Turbo Oil T32 or equivalent.	tons	20.00
Other olives TOTAL:			70.00
Transformer oils	Transformer oil DIALA S4 ZX-I	tons	86.00
	Transformer oil	tons	75.00
	Oil TP-22c	tons	200.00
	Transformer oil (Nytro Lyra X or similar)	tons	53.40
Transformer oils TOTAL:			414.40
Reinforced concrete supports	Reinforced concrete support SV 95-2	piece	1200.00
	Reinforced concrete support SV-10.5-5	piece	1200.00
	Reinforced concrete support SV-16.4	piece	160.00
	SK-22.2 reinforced concrete support	piece	120.00

	Reinforced concrete support SV-9.5-2	piece	1500.00
	Reinforced concrete round SK 105-10 power line support	piece	10.00
	Reinforced concrete round SK 105-4.3 power line support	piece	10.00
	SK-22,2 reinforced concrete support	piece	16.00
	Reinforced concrete support SV-164-12	piece	36.00
	Reinforced concrete support SV-10, 5-5	piece	120.00
	Reinforced concrete support SV-9.5, 5-2	piece	136.00
Reinforced concrete supports TOTAL:			4508.00
Other supports	Bus support 330 kV SHO-330.II-UHL1	piece	53.00
Other supports TOTAL:			53.00
Lighting devices	Mobile lighting masts. The support rack is adjustable in height with fasteners - 4 (supports). The design of the lighting mast is telescopic. LED spotlights - 4 x 160 W LEDs.	piece	250.00
Lighting devices TOTAL:			250.00
Steam turbines	Steam turbine 12 MW	piece	2.00
	160 MW steam turbine	piece	1.00
	200 MW steam turbine	piece	1.00
Steam turbines TOTAL:			4.00
Car trailers	Platform semi-trailer (trawl). Carrying capacity of at least 38 tons; VARZ NPV-3811 or similar	piece	6.00
	Heavy-duty semi-trailer (trawler). Carrying capacity 38 tons	piece	5.00
	Tanker semi-trailer for the transportation of methanol. The volume is not less than 25 m3. The purpose of the tank semi-trailer is for the transportation and temporary storage of methanol (UN 1230).	piece	25.00
Car trailers TOTAL:			36.00
The wire is insulated	SIP wire 2x16	km	500.00
	SIP wire 4x16	km	257.00
	SIP wire 4x35	km	124.00
	SIP wire 4x50	km	178.00
	SIP wire 4x70	km	88.00

	SIP wire 4x95	km	2.00
	SIP wire 4x25	km	25.00
The wire is insulated TOTAL:			1174.00

The wire is not insulated	WIRE AS-35/6,2	tons	3.43
	A-35 uninsulated wire	tons	7.92
	The wire is not insulated AS-120/19	tons	65.00
	The wire is not insulated AS-150/19	tons	60.00
	The wire is not insulated AS-185/29	tons	80.00
	The wire is not insulated AS-240/39	tons	50.00
	The wire is not insulated AS-50	tons	15.60
	The wire is not insulated AS-95/16	tons	76.00
	Steel-aluminum wire, non-insulated with a cross-section of 120-400 mm ²	tons	0.57
	The wire is not insulated AS-70/11	tons	90.00
	The wire is not insulated AS-50/8.0	tons	65.00
	AS-50/8.0 WIRE	tons	4.19
	WIRE AC-70/11	tons	4.19
	WIRE AS-95/16	tons	0.98
	WIRE AC-150/24	tons	3.00
	The wire is not insulated AC 50/8	tons	11.00
	The wire is not insulated AC 70/11	tons	9.50
	The wire is not insulated AC 120/19	tons	12.00
	The wire is not insulated AC 240/39	tons	5.00
The wire is not insulated TOTAL:			563.38

Self-supporting insulated wire (SIP)	SIP wire 2x16	km	8.62
	SIP wire 4x35	km	0.30
	SIP wire 4x50	km	3.65
	SIP wire 4x70	km	6.98
	Wire (SIP) 2x16	km	8.60
	Wire (SIP) 4x16	km	2.00
	Wire (SIP) 4x25	km	6.00

	Wire (SIP) 4x35	km	9.50
	Wire (SIP) 4x50	km	12.00
Self-supporting insulated wire (SIP) TOTAL:			57.65
Software	Software and technical complex and turbine regulation system of ACS TP of power unit No. 7 of Dobrotvirskaya TPP (160MW)	piece	1.00
	Software and technical complex and regulation system of ASK TP turbine (200MW) - OVATION, Emerson Electric	piece	1.00
	Software and technical complex and turbine regulation system of ASK TP (160MW)	piece	1.00
	Production management system. Production Engineering (DSPE), Production Allocation and Operations Reporting (DSPA), Production Dashboard (DSPI) or equivalent	piece	1.00
	Program complex "Simone". Program complex "Simone"	piece	1.00
	Automated system of operational dispatch control (ASODU). On the software product, MES-level or similar	piece	1.00
Software TOTAL:			6.00
Food	Sukhpaky With an everyday set of dry products	pack	22000.00
Food TOTAL:			22000.00
Electromagnetic starters	Electromagnetic starter for smooth acceleration of EZSO1 engines (660/1140V, 50/60Hz, max. nominal current 800A)	piece	2.00
Electromagnetic starters TOTAL:			2.00
Cooling liquids	Antifreeze. Class G12.	tons	5.00
Cooling liquids TOTAL:			5.00
Disconnectors	330 kV single-pole disconnector with one grounding device RG1a-330.P/3150 UHL-1 with PD-14 drive	piece	69.00
	Disconnectors 110kV 31500 A - 160 kA peak - 40 kA/3sec	piece	18.00
	Disconnectors 154kV 3150 A - 125 kA peak - 50 kA/3sec	piece	20.00
	Disconnectors 220kV 4000 A - 160 kA peak - 50 kA/3sec	piece	14.00
	Disconnectors 330kV 3150 A - 160 kA peak - 50 kA/3sec	piece	19.00
	Disconnector RLNDZ-10/400U1 with PR-01-02U1 drive	piece	80.00

	Three-phase disconnector 110 kV	piece	10.00
	Single-phase disconnector 110 kV	piece	12.00
	Linear disconnector for 20 kV PL voltage	piece	50.00
Disconnectors TOTAL:			292.00

Special equipment (other)	Trolley. VH-1,4	piece	10.00
	Hydraulic trolley (roller) "OTTOMAIER OM 25". Load capacity - 2500 kg, fork length - 1150 mm, trolley width - 550 mm, all-welded metal frame	piece	2.00
	Hydraulic stacker "OTTOMAIER OM RS 1530". Load capacity 1500 kg, lifting height — 3000 mm, fork length — 1150 mm, sliding forks	piece	2.00
	Electric locomotive 4.5 ARP complete with two batteries PZS630 on a track of 900 mm.	piece	1.00
	Magnetic grip PML 1000. 1 volume	piece	5.00
	Magnetic capture PML 2000. 2 volumes	piece	5.00
	Electric telescopic scissor lift, type Airo X12 RTE. load capacity 450 kg, lifting height 12 m	piece	2.00
	Lift type A50 or UPA60 for overhaul of wells.	piece	2.00
	installation for horizontal directional drilling D10x15 S3 Ver-meer (with appropriate rods, nozzles and a system for mixing and feeding the bentonite mixture). installation for horizontal directional drilling D10x15 S3 Ver-meer (with appropriate rods, nozzles and a system for mixing and feeding the bentonite mixture)	piece	2.00
	Cementing aggregate type CA 320.	piece	3.00
	Petrol truck (refueling station). The volume of the tank is not less than 10 m ³ , the wheel formula of the chassis is 6*4, 4*4; MAZ APZ-10 or similar	piece	5.00
	Railway tanker for the transportation of methanol. The volume is not less than 85 m ³ . Methanol - UN 1230.	piece	18.00
	Drilling machine. Type ZJ50DBS or similar. Drilling depth up to 5000 m.	kit	1.00
	Cementing unit. GOES MPPU 600 or equivalent	piece	2.00
	Installations for horizontal drilling. For laying underground communications, pipelines, cable laying without the need to build trenches	piece	12.00
Coiled tubing units. Coiled tubing installation: traction force 36t (3 pcs.)/27t (2 pcs.); the maximum capacity of the drum is 6500/4500m; the outer diameter of the GT is 38.1 mm. Nitrogen installation: productivity 8-40 cubic meters per minute; Rrob 700 atm; capacity of cryogenic containers 22 tons. Pump installation: productivity 60-500 l/min; Rrob 700 atm; Acid-resistant performance.	piece	5.00	
Special equipment (other) TOTAL:			77.00

Conveyor belt	Conveyor belt SHGVH 1400-1000-5-LP-4.5-3.5 or equivalent (1,432 m ² or 1,432 KM 2)	km	1.43
Conveyor belt TOTAL:			1.43

traverses	Traverse TM-1 with a clamp	piece	1600.00
	Traverse TM-3 with a clamp	piece	1020.00
	Traverse TN-002 with clamp	piece	2636.00
	Traverse B 6 included	kit	240.00
	Traverse B 7 included	kit	120.00
	Traverse B-6 included	piece	32.00
	Traverse B-7 included	piece	16.00
	Rope support B-33	piece	16.00
	Traverse B-1 included	piece	72.00
	Traverse B-4 included	piece	36.00
Travers TOTAL:			5788.00

Tractors	BKM — 2M based on KhTZ 150K-09.	piece	8.00
	Crawler bulldozer. Crawler bulldozer: dump type SU (hemispherical); engine power 150-170 kW; diesel engine with a volume of no more than 11,000 cm ³ ; weight 20-24 tons; width of caterpillar tracks, 550 - 610 mm; closed type operator's cabin with type R protection	piece	6.00
	T120N-3 bulldozer. Weight 13 tons, LR6A3Z-20 engine R=93 kW/2000 rpm. wave.,	piece	1.00
	Drilling and crane machine "BKM-2M". based on the KhTZ-150K tractor or equivalent	piece	2.00
	JCB 4CX tractor with attachments: hydraulic hammer. JCB 4CX	piece	2.00
	Tractors. MTZ tractor	piece	5.00
	BKM-2M based on the XTA-200 tractor with a hydraulic drill rotation drive or similar.	piece	9.00
	A JCB-type tracked bulldozer with attached equipment or similar. MODEL LG230R (FOR LANDFILLS) Engine brand - WEICHAH Power.	piece	1.00
	Crawler bulldozer, dump capacity - 21 m ³ . The net power is 246 kW.	piece	1.00
	Self-propelled crawler mulcher	piece	1.00
	Crawler bulldozer, dump capacity - 21 m ³ . The net power is 246 kW; Operating weight 41400 kg.	piece	1.00
	Tractor (with dump, brush, scythe, bunker for sand-salt mixture, trailer).	piece	10.00
Tractors TOTAL:			47.00

Voltage transformers 110-220 kV	Voltage transformer 110 kV	piece	3.00
	Voltage transformer U1=150/ $\sqrt{3}$ kV, U2=100/ $\sqrt{3}$ V, accuracy class 0.2, IES 61869	piece	3.00
	Voltage transformer 110 kV EMFC-145	piece	4.00
	Power transformer TRDN-40,000 kVA 110/6/6 kV	piece	2.00
	Power transformer TDTN-25,000 kVA 110/35/10 kV	piece	2.00
Voltage transformers 110-220 kV TOTAL:			14.00

Voltage transformers of 330 kV and above	Voltage transformer 400 kV Voltage transformers U1=400/ $\sqrt{3}$ kV, U2=100/ $\sqrt{3}$ V, accuracy class 0.2, IES 61869	piece	3.00
Voltage transformers 330 kV and above TOTAL:			3.00

Voltage transformers 6-35 kV	NAMI-6 voltage transformer	piece	2.00
Voltage transformers 6-35 kV TOTAL:			2.00

Power transformers 10-40 kV	Transformer of own needs TRDN-32000/35-67	piece	1.00
	Power transformer TDN-10,000 kVA 35/10 kV	piece	3.00
	Power transformer TMGSU power 100 kVA voltage 10 kV/ 0.4 kV	piece	60.00
	Power transformer TMGSU power 160 kVA voltage 10 kV/ 0.4 kV	piece	70.00
	Power transformer TMGSU power 250 kVA voltage 10 kV/ 0.4 kV	piece	40.00
	Power transformer TMGSU power 63 kVA voltage 10 kV/ 0.4 kV	piece	30.00
	Self-needs transformer TRDNS-25000/35 of power unit No. 4	piece	1.00
	TRDNS 25000/35 U1 (HV 20kV, NN1-NN2 6.3kV)	piece	1.00
	Power transformer 35/20 kV with a capacity of 6.3 MVA with tap-changer.	piece	4.00
	Power transformer 35/20 kV with a capacity of 2.5 MVA with tap-changer.	piece	4.00
	Power transformer 35/10 kV with a capacity of 6.3 MVA with tap-changer	piece	1.00
	TDNS-10000/35/6 power transformer	piece	1.00
	Power transformer TMN -2 500 kVA 35/10 kV	piece	1.00
	Power transformer TDN-6 300 kVA 35/10 kV	piece	1.00
	630 kVA transformer for distribution TP	piece	19.00
	400 kVA transformer for distribution TP	piece	7.00

Power transformers 10-40 kV TOTAL:	Power transformer TMN-4 000 kVA 35/10 kV	piece	4.00
	Power transformer TMN-2 500 kVA 35/10 kV	piece	4.00
	Power transformer TMN-1 000 kVA 35/10 kV	piece	4.00
	Power transformer TMN-6300/35	piece	2.00
	Power transformer TMG power 630 kVA voltage 6 kV/ 0.4 kV	piece	80.00
	Power transformer TMG power 400 kVA voltage 6 kV/ 0.4 kV	piece	30.00
	Power transformer TMG power 250 kVA voltage 6 kV/ 0.4 kV	piece	10.00
	Power transformer TMG-630 kVA 10/0.4 kV	piece	15.00
	Power transformer TMG-400 kVA 10/0.4 kV	piece	18.00
Power transformers 10-40 kV TOTAL:			411.00

Power transformers 110-220 kV TOTAL:	Power transformer 110/10 with a capacity of 6.3 MVA	piece	1.00
	Power transformer TDN-16,000 kVA 110/10 kV	piece	1.00
	Power transformer TDTN-16000 kVA 110/35/10 kV	piece	1.00
	TDC-400000/110 U1 (NN20kV)	piece	1.00
	Power transformer TDN-2 500 kVA 110/10	piece	1.00
	Power transformer TDTN-40,000 kVA 150/10/6 kV	piece	1.00
	Power transformer TDTN-40,000 kVA 150/35/10 kV	piece	1.00
	Power transformer TDTN-63,000 kVA 110/35/10 kV	piece	1.00
	Power transformer TRDN-63,000 kVA 110/10/10 kV	piece	2.00
	Power transformer TDN-10,000 kVA 110/6 kV	piece	1.00
	Power transformer TDTN-25,000 kVA 110/10/6 kV	piece	1.00
TDTN-16000/150/35/6 power transformer	piece	2.00	
Power transformers 110-220 kV TOTAL:			14.00

Power transformers 330 kV and above TOTAL:	Block transformer TDC-400000/330	piece	1.00
	Three-phase transformer 250 MVA 330/110 kV	piece	1.00
Power transformers 330 kV and above TOTAL:			2.00

Power transformers up to 6 kV	Transformers 6/0.4 kV	piece	3.00
	Transformer for own needs TMG-100 kVa 6/0.4 kV	piece	2.00
	Power transformer TMG-630 kVA 6/0.4 kV	piece	14.00
Power transformers up to 6 kV TOTAL:			19.00
Current transformers (high voltage)	110 kV current transformer	piece	9.00
	Current transformer 110 kV 1200/5, U=110 kV, accuracy class 0.2S, IES 61869	piece	9.00
	Current transformer 110 kV Current transformers 1200/5, U=110 kV, accuracy class 0.2S, IES 61869	set 1 phase	9.00
	150 kV current transformer	piece	3.00
	Current transformer 150 kV Current transformers 1200/5, U=154 kV, accuracy class 0.2S, IES 61869	set 1 phase	16.00
	Current transformer 330 kV 2000/1, U=330 kV, accuracy class 0.2S, IES 61869	piece	3.00
	Current transformer 330 kV Current transformers 2000/1, U=330 kV, accuracy class 0.2S, IES 61869	set 1 phase	24.00
	TFUM-330AU1 current transformer	set 1 phase	15.00
	Current transformer 110 kV IOSK 123	piece	3.00
	Current transformer 110 kV IMB-123 Kt=1000/5	piece	3.00
	Current transformer 110 kV IMB-123 Kt=1500/5	piece	1.00
	Current transformer 110 kV IMB-123 Kt=300/5	piece	3.00
Current transformers (high voltage) TOTAL:			98.00
Current transformers (medium voltage)	Current transformer TLO-10 0.5S/10P 10/15 W 200/5, K10=10	piece	14.00
Current transformers (medium voltage) TOTAL:			14.00
Transformer substations of medium voltage	Complete transformer substation 20/0.4 kV through with cable entry 400kVA	piece	10.00
	Complete transformer substation 20/0.4 kV dead-end, air input 250kVA	piece	10.00
	Complete transformer substation 20/0.4 kV dead-end, air input, 400kVA	piece	8.00
	Complete transformer substation 20/0.4 kV dead-end, air inlet 160kVA	piece	20.00
	Transformer substation KTPV-630/6/1,3	piece	1.00

	Transformer substation TSVP-630/6/1.3	piece	2.00
	Complete transformer substation 20/0.4 kV dead-end, air inlet 100kVA	piece	20.00
Transformer substations of medium voltage TOTAL:			71.00

Gas tracers	RIDGID track finder	piece	12.00
Gas trackers TOTAL:			12.00

Pipe products	Electrowelded pipe D 65, 76*3 mm	m	2000.00
	Electrowelded pipe D100, 108*4mm	m	1000.00
	Electrowelded pipe D80, 89*3 mm	m	2000.00
	Pipe PE 100 SDR 11 Dn 32x3.0	m	2000.00
	Pipe PE 100 SDR 17.6 Dn 63x3.6	m	2000.00
	Steel water and gas pipeline DU 20, 26.8*2.8 mm	m	2000.00
	Steel water and gas pipeline DU 25, 33.5*2.8 mm	m	500.00
	Steel water and gas pipeline DU 50, 60*3 mm	m	2000.00
	Electrowelded pipe D 150, 159*3.5 mm	m	200.00
	Electrowelded pipe D200, 219*6 mm	m	200.00
	Electrowelded pipe D250, 273*7 mm	m	200.00
	Electrically welded pipe D300, 325*8 mm	m	50.00
	Electrowelded pipe D400, 426*8 mm	m	1000.00
	Electrowelded pipe D500, 530*9 mm	m	50.00
	Pipe PE 100 SDR 11 Dn 40x3.7	m	100.00
	Pipe PE 100 SDR 11 Dn 50x4.6	m	100.00
	Pipe PE 100 SDR 17.6 Dn 110x6.3	m	500.00
	Pipe PE 100 SDR 17.6 Dn 125x7.1	m	50.00
	Pipe PE 100 SDR 17.6 Dn 140x8.0	m	50.00
	Pipe PE 100 SDR 17.6 Dn 160x9.1	m	50.00
	Pipe PE 100 SDR 17.6 Dn 180x10.3	m	50.00
	Pipe PE 100 SDR 17.6 Dn 200x11.4	m	50.00
Pipe PE 100 SDR 17.6 Dn 225x12.8	m	50.00	
Pipe PE 100 SDR 17.6 Dn 280x15.9	m	50.00	
Pipe PE 100 SDR 17.6 Dn 315x17.9	m	50.00	

	Pipe PE 100 SDR 17.6 Dn 400x22.8	m	50.00
	Pipe PE 100 SDR 17.6 Dn 75x4.3	m	500.00
	Pipe PE 100 SDR 17.6 Dn 90x5.2	m	500.00
	Steel water and gas pipe Du 32, 42.3*2.8 mm	m	500.00
	Steel water and gas pipeline DU 40, 48*3 mm	m	500.00
	Pump-compressor pipes are seamless. Steel seamless pump-compressor pipe Ø 114.3x9.65; Ø88.9x7.34; Ø73.02x5.51 strength group P-111	tons	3200.00
	Drill pipe. D = 2 7/8, 2 3/8, 3 1/2, 5 1/2; LH/RH; S-135/G-106	tons	1900.00
	Pipes for gas pipelines-pressure lines. Du 32, 42, 89, 114, 159, 325, 426, 531	m	221000.00
	Seamless tubing pipe, 3 1/2 and 2 7/8, P-110 Cr13%.	tons	679.00
	Fittings for chrome pipes (Pup joint) 3-1/2" and 2-7/8", P-110 Cr13%. Size: 3-1/2" 10.2 and 2-7/8" 6.40, L=0.5m, L=1.0m L=2.0m L=3.0m L=4.0m; Std and Material: P-110 (Cr ≥13%)	piece	65.00
Pipe products TOTAL:			245194.00

Turbines	Turbine K-300-240	piece	1.00
TOTAL turbines:			1.00

Chemicals	Hydrate formation inhibitor (methanol). Technical methanol, grade A DSTU 3057-95 (GOST 2222-95).	tons	36000.00
	Potassium chloride (KCl). 1) appearance: small grayish-white crystals; 2) mass fraction of moisture: no more than 1%; 3) mass fraction of potassium in terms of K ₂ O: not less than 60%.	tons	3700.00
	Barite concentrate. 1) density: not less than 4.20 g/cm ³ ; 2) water-soluble alkaline earth metals, such as calcium: no more than 250 mg/kg; 3) mass fraction of the fraction larger than 75 microns: no more than 3%; 4) the mass fraction of the fraction smaller than 6 microns in the equivalent spherical diameter: no more than 30%.	tons	10000.00
	Demulsifier for hydrocarbon raw materials. Dissolwan 2830 or similar. Interaction with water: - emulsion formation - does not form, - delamination - does not delaminate.	tons	18.00
	Liquid technical ammonia.	tons	5.00
	Sulfur. The concentration is 5-8 ppm	piece	1.00
	Calcium chloride. CaCl ₂	tons	60.00
	Proppant. Size 30/50, 20/40, 16/30 (priority 20/40)	tons	1500.00
	Helium is gaseous. In cylinders, pressure not less than 150 bar, brand "A" (purity not worse than 99.9995%)	piece	30.00
	The foaming agent is liquid. A300 "Unikor-10" or SE-236-N or similar.	tons	1.70

	Surfactant. Characteristics: 1) Appearance: cylindrical solid. 2) Dimensions: diameter - from 32 mm to 45 mm; length - from 400 to 450 mm. 3) The temperature of the beginning of melting is not lower than "plus" 550C; 4) Surface tension of a 1.0% solution in distilled water, mN/m no more than 50.0; 5) Solubility in water: soluble in fresh and mineralized1 water; 6) Absence of sediment when dissolved in mineralized1 water (10g of surfactant/100g of water); 7) pH of a 1% solution at a temperature of +20°C: 6-9; 8) foaming ability2 – forms foam in mineralized1 water at a temperature of +60°C, with a hydrocarbon condensate content of 30% vol. and a surfactant content of 1% with the following characteristics: - foam stability, c ≥1200; - multiplicity of foam ≥ 10; - foam column height, mm ≥ 400. 9) fragility: withstand drilling with a Ø 6 mm mechanical drill along the birth axis of the cylinder to a depth of at least 200 mm without destruction (crushing, chipping of parts); 1 mineralization 100 g/l, a mixture of calcium and sodium chlorides 1:2 2 research on the Ross-Miles device	tons	3.40
	Inhibitor of paraffin deposition. 1) Appearance: homogeneous liquid without sediment. 2) Density at 20°C, g/cm ³ , not less than 0.8. 3) Solidification temperature, °C, not higher than "minus" 20. 4) Solubility in hydrocarbons, complete/dispersible. 5) The effectiveness of the inhibitor in preventing the precipitation of paraffin deposits when adding 0.1-10 kg of the commercial form of the inhibitor in a hydrocarbon solvent per 1 ton of oil, %, not less than 60. 6) Corrosion aggressiveness (corrosion rate) of the commercial form at 20°C, mm/ year, no more than 0.12.	tons	16.30
	Ammonium chloride. 1. appearance: white powder or granules, a yellow or pink shade is allowed; 2. mass fraction of ammonium chloride, %, not less than 99; 3. mass fraction of water-insoluble substances, %, no more than 0.5%.	tons	9.00
	Demulsifier. For the destruction of water-oil condensate emulsion. Main chemical properties: 1) Appearance: homogeneous liquid. 2) Kinematic viscosity at 40°C, mm ² /s, not higher than 30 3) Density at 20°C, g/cm ³ , not less than 0.8 4) Solidification temperature, °C, not higher than minus 20 5) Solubility in - water: complete/dispersible; - full/dispersible methanol. 6) Dewatering efficiency of a water-oil condensate emulsion with a water content of up to 30% with a demulsifier consumption of no more than 60 g/t for 1 hour, %, no less than 70 7) Corrosion aggressiveness (corrosion rate) of the commercial form at 20°C, mm/year, no more than 0.13	tons	3.20
	Liquid nitrogen. High purity, mass fraction of liquid nitrogen 99.99%	tons	10000.00
Chemicals TOTAL:			61347.60
Cabinets and drawers	External device cabinet for single-phase electric energy meters of the KDE-1 type (or analogue);	piece	124.00
	External device cabinet for three-phase electric energy meters of the KDE-3 type (or analogue);	piece	15.00
	Backup protection cabinet PL-110kV, RZA SYSTEMS ShZA-UL-110-11-ZZOO-2-21-UHL4	piece	2.00

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	Cabinet of the main differential protection PL-110kV, RZA SYSTEMZ ShZA-UL-110-11-ИООО-2-21-УХЛ5, based on the RZA "Diamond" device with HF part	piece	2.00
Cabinets and drawers TOTAL:			143.00
Control panels	The cell of the distribution device with a voltage of 20 kV of internal installation	piece	50.00
	Cabinet of operational current 220 V with rechargeable battery OGI-260LA 260 A.h., 234 V for the restoration of the "Snigurivka" PS	kit	1.00
	0.4 kV self-demand switchboard with two bus sections, a sectional switch, groups of automatic devices and an ATS device	piece	1.00
	Cell D-12P	piece	12.00
	AB-OGi325LA ShPT Evertis	piece	1.00
Control panels TOTAL:			65.00

List of other urgent needs for Ukrainian Power System

Classifier	Equipment	Unit measurement	Quantity
Car towers (car lifts with cradle)	The car is specialized with a tower of 24 m	piece	1.00
Car towers (car lifts with cradle) TOTAL:			1.00
Truck cranes	Truck crane 40 t. Load capacity 40 t and more	piece	1.00
	Cargo lifting mechanisms - mobile cranes over 40t (75t-150t)	piece	6.00
	Autolift type "VS-32"	piece	2.00
Truck cranes TOTAL:			9.00
Brigade cargo-passenger cars	Emergency vehicle (semi-truck), Mitsubishi L200	piece	1.00
	Minibus. Number of passes. at least 17 seats; type FORD TRANSIT or similar	piece	13.00
Brigade cargo-passenger cars TOTAL:			14.00
Cars for the transportation of reinforced concrete pillars (carriers)	Cars for the transportation of reinforced concrete pillars (carriers)	piece	3.00
Cars for the transportation of reinforced concrete pillars (carriers) TOTAL:			3.00
Cars with a manipulator	Volvo FM 330 truck with HIAB 144 E-4 HIPRO manipulator	piece	1.00
Cars with manipulator TOTAL:			1.00
Dump trucks	5t dump truck	piece	2.00
Dump trucks TOTAL:			2.00
Trucks	Dump truck up to 10 tons.	piece	3.00
Trucks TOTAL:			3.00

Truck loaders	Telescopic loader MANITOU MLT-X735 (or similar)	piece	2.00
Forklifts TOTAL:			2.00
Road transport (other)	Asphalt rink. Universal vibrating (asphalting brigade)	piece	1.00
	Carriage carriage OPTIMA 4.3 x 2.1 m 3000 kg	piece	1.00
Road transport (other) TOTAL:			2.00
Autotransformers	Autotransformer ATDCTN-200000/330/110/10.5	piece	2.00
	Autotransformer ATDCTN-250000/330/150U1	piece	1.00
	Power autotransformer AT-90 MVA type ADTTG-90000 voltage 150/110/10 kV	piece	1.00
Autotransformers TOTAL:			4.00
Accumulator batteries	Battery "RITAR LiFePO4" 12.8V 200Ah	piece	60.00
	Accumulator battery "Ventura GP" 12 volt-18 a/h	piece	130.00
	Rechargeable battery "Fort XT-12V32 Professional"	piece	100.00
	VARTA Vb 2305 battery	piece	4.00
	Replacement battery cartridge #43 APC RBC43	piece	4.00
	Kit Makita 197626-8 4x 5 Ah battery BL1850 and charger DC18RD + Makpac	kit	4.00
	Challenger A12-55 gel battery	piece	2.00
	Rechargeable battery - Battery voltage - 230 V, Cell voltage - 2 V, Capacity - 500 A*h, Service life - at least 20 years	piece	1.00
	Battery - Battery voltage - 230 V, Cell voltage - 2 V, Capacity - 375 A*h, Service life - at least 20 years	piece	4.00
	Stationary battery with a capacity of 180 A/h, cell voltage 2V	piece	120.00
	Stationary battery of type 6OGI370LA, number of cells - 120, voltage of each cell - 2.2 V, capacity - 370 A/hour, voltage - 220 V	piece	1.00
	Battery	piece	34.00
	Uninterruptible power supply system for control communication equipment	kit	1.00
	VARTA rechargeable battery for power supply of ZSN and units 1-2 Type – Vb-2415	piece	1.00
	Accumulators. Gel batteries (GEL) Voltage - 12V Capacity - 150 A*h	piece	350.00
	Lithium battery. SAFT LS33600 STD or similar.	piece	200.00
	Accumulator batteries. Voltage: 12 V; Capacity: 5.0 - 24.0 A/hr	piece	388.00
	Battery capacity. At least 20,000 mA	piece	200.00
Batteries TOTAL:			1604.00

The valve is closed	DN 200 wedge valve	piece	2.00
	DN 250 wedge valve	piece	2.00
	DN 300 wedge valve	piece	2.00
	DN 400 wedge valve	piece	2.00
	Gate valve, conventional passage - 2.9/16" (65 mm); nominal pressure - 5000 psi (35 MPa). Or similar.	piece	200.00
	Latch (through). Straight-through valve Ду50, Py 64/63 for ground installation with reverse flanges.	piece	6.00
	Ball valve, welded, through. DU100-DU700; Ru pressure = 80; Working medium: natural gas	piece	62.00
	Shut-off and regulating valve with a pneumatic drive. 1. Nominal diameter – Dn 25 mm; 2. Nominal pressure - Pn 16.0 MPa; 3. The throughput of the Kvy valve is 2.5 m3/h; 4. Execution - normally closed NC; 5. Body material - steel 25L (or equivalent); 6. Hermeticity class - "B"; 7. Working environment – liquid (hydrocarbon condensate and water); 8. The medium supply direction is one-way; 9. Inlet pressure – 10...16 MPa; 10. Output pressure - 4...6.3 MPa; 11. The temperature at the entrance is 5...10 degrees Celsius; 12. Density at the entrance 850...1150 kg/m.cub.; 13. Connection - flange (GOST 12815-80); 14. Drive type – pneumatic, pressure - 2.5 bar.; 15. The position of the pipeline is horizontal; 16. The material of the pipeline is steel 20; 17. The diameter of the pipeline is 57 mm; 18. The range of external temperatures - -30...+40 degrees Celsius.	piece	10.00
	Column head. OKK2x21-178x245x340 K1 GOST 30196-94, OKK2x35-178x245x340 K1 GOST 30196-94 or similar	piece	7.00
	Fountain fittings. AF6-65x21 K1 / AF6-65x35 K1; or equivalent to API-6A, LU, DD-NL, PSL-2, PR2	kit	7.00
	The latch is sliding. 2 9/16" 3000 psi; 2 1/16" 5000 psi API-6A, LU, DD-NL, PSL-2, PR2 or equivalent	piece	150.00
	Fountain fittings. 3-1/16"-2-1/16"-15000 psi assembly of standard API-6A, LU, DD-NL, PSL-3, PR2/1 + pipe head 11" x 7-1/16" x 2 -1/16"- 15000 psi complete with tubing hanger (cut – top/bottom 4"), operating column Ø 7" X-Mas 3-1/16" - 2-1/16" -15000 psi Assembly standard API -6A, LU, DD-NL, PSL-3, PR2/1 + Tubing Head 11 " x 7-1 / 16 " x 2-1 / 16 " - 15000 psi complete with Tubing Hanger (thread - top / bottom 4" , service column Ø 7"	kit	2.00
Column head. Standard API-6A 7" x 9 5/8" x 13 3/8" x 20" 15000 psi LU, DD-NL, PSL3, PR2/1 Casing Head Assembly standard API-6A 7"x 9 5/8" x 13 3/8" x 20" 15000 psi LU, DD-NL, PSL3, PR2/2	piece	5.00	
Locking fittings TOTAL:			457.00
The armature is linear	Voltamperphasometer Retometer (analogue)	piece	1.00
	Screen fastening node UKE-6g	piece	18.00
	KGP fastening unit 12-1	piece	100.00
	KGP 16-1 fastening unit	piece	15.00

KGP fastening unit 7-1	piece	100.00
Fastening unit KGP-16-3	piece	22.00
KGP-7-1 fastening unit	piece	15.00
Fastening unit KGP-7-2B	piece	26.00
Fastening unit KGN-7-5	piece	36.00
Single-lobed eye U1-12-16	piece	36.00
Eyelet special shortened USK-7-16	piece	22.00
Vushko U1 12-16	piece	80.00
Vushko U1 16-20	piece	30.00
Vushko U1 7-16	piece	400.00
Vushko U2 12-16	piece	50.00
Vushko U2 16-20	piece	20.00
Vushko U2 7-16	piece	60.00
Universal hook CSC16 with Sicame	piece	10000.00
Protective screen E3-500-1A	piece	18.00
Clip supporting deaf 2PGN-5-13	piece	22.00
Clamp supporting PSP 122	piece	200.00
Die clamp PA 4-1	piece	50.00
SK-12-1A coupling armature	piece	50.00
SK-7-1A coupling armature	piece	80.00
Coupling armature SKD-10-1	piece	70.00
Rocker arm 2KU 12-1	piece	30.00
Rocker arm 2KU 12-2	piece	10.00
Two-beam rocker arm 2KL-12/16-1	piece	18.00
PRT 16-1 tensioning cable	piece	20.00
Intermediate mounting link PTM-7-2	piece	36.00
Intermediate link PRR 12-1	piece	80.00
Intermediate link PRR 16-1	piece	20.00
Intermediate link PRR 7-1	piece	80.00
Intermediate link PTM 12-2	piece	20.00
Intermediate link PTM 16-2	piece	20.00
Intermediate link PTM 7-2	piece	30.00
Intermediate link PTR 10-1	piece	20.00

Intermediate link PTR 12-1	piece	20.00
Intermediate link PTR 7-1	piece	20.00
Intermediate link PTR-12/21-2	piece	36.00
Adjustable intermediate link PRR-12-1	piece	36.00
Adjustable intermediate link PTM-21-2	piece	36.00
Asbestos-cement sheet 8th wave 5.5*1130*1750mm	piece	400.00
Head OG-12	piece	300.00
The earring is special SRS-7-16	piece	22.00
Earring SR 12-16	piece	80.00
Earring SR 16-20	piece	10.00
Earring SR 7-16	piece	136.00
SRS earring 7-16	piece	400.00
Bracket SK 12-1A	piece	100.00
Bracket SK 16-1A	piece	40.00
Bracket SK 7-1A	piece	272.00
Bracket SK-12-1A	piece	60.00
Bracket SKD 10-1	piece	200.00
Bracket SKD 12-1	piece	100.00
Bracket SKD 16-1	piece	30.00
Three-legged bracket SKT-12-1	piece	36.00
Scraper CF 20	piece	200.00
Universal hook CSC16uz	piece	50.00
Clamp X-10	piece	480.00
Clamp X-11	piece	500.00
Cap K-5	piece	115.00
Choke for gas discharge lamp 80 W		250.00
Lightning protection GP-50/1000	piece	2.00
ZUBR D25 overvoltage protection	piece	2.00
Bandage hook	piece	930.00
Universal hook	piece	970.00
Bandage steel tape	km	3.72
Scraper	piece	3720.00
Insulated piercing clip	piece	3060.00

	Support clamp	piece	460.00
	Anchor clamps	piece	2860.00
	Die clamp	piece	300.00
	Insulated clamp for ground connection	kit	60.00
	Insulated earthing piercing clamp	piece	100.00
	CLAMP FOR TEMPORARY GROUNDS	piece	240.00
	END CAP	piece	160.00
	Cap K-9	piece	11600.00
	Cable rack B 33	piece	120.00
	Connecting clamp SOAS-70	piece	50.00
	Connecting clamp SOAS-120	piece	50.00
	Tension clamp NB-2-6A	piece	60.00
	Tension clamp NB-3-6A	piece	18.00
	Bracket SK-7-1A	piece	30.00
	Bracket SKD-10-1	piece	30.00
	Vushko U1-12-16	piece	18.00
	Vushko U1-7-16	piece	80.00
	Earring SR-7-16	piece	60.00
	Earring SR-12-16	piece	20.00
	Clamp supporting PGN-3-5	piece	60.00
KGP-7-2 fastening unit	piece	60.00	
Linear armature TOTAL:			40957.72

Gasoline	Gasoline A-95	tons	52.00
	Gasoline A-92	tons	240.00
Gasoline TOTAL:			292.00

Switch inputs	110 kV high-voltage input for switches	piece	12.00
	35 kV high-voltage input for switches	piece	72.00
Switch inputs TOTAL:			84.00

Transformer inputs	Input 750 kV, Rated current 2500 A, HITACHI GOE-2550-1675-2500-0.6	piece	5.00
	Transformer input 330 kV	piece	1.00

	Input for high-voltage transformers 110 kV	piece	18.00
	Input high voltage 110kV for power transformer, BRIT-R-90-110-550-800 (type 002)	piece	6.00
	Input 150 kV, Inom - 2000A	piece	2.00
Transformer inputs TOTAL:			32.00

Switches are automatic	Automatic circuit breaker 100 A	piece	250.00
	Automatic circuit breaker 160 A	piece	50.00
	Automatic circuit breaker 250 A	piece	50.00
	Automatic circuit breaker 400 A	piece	150.00
	Automatic circuit breaker ABB BMS411 B16 1P	piece	2072.00
	Automatic switch FMC3/3U 100A 8-12In	piece	350.00
	Automatic circuit breaker FMC3/3U 160A 8-12In	piece	300.00
	Automatic switch FMC3/3U 63A 8-12In	piece	350.00
	Automatic switch Schneider Electric, 3p, 125A	piece	40.00
	Automatic circuit breaker Schneider Electric, 3p, 160A	piece	40.00
	Schneider Electric circuit breaker, 3p, 250A	piece	40.00
	Automatic switch Schneider Electric, 3p, 40A	piece	30.00
	Automatic circuit breaker Schneider Electric, 3p, 63A	piece	30.00
	Automatic circuit breaker Schneider Electric, 3p, 80A	piece	30.00
	Automatic circuit breaker ABB BMS413 C10 3P	piece	3802.00
	Automatic switch ABB BMS413 C16 3P	piece	2995.00
	Double-pole automatic switch 6A, characteristic B [B6]	piece	1.00
	Automatic switch INDUSTRIAL.250SL 125A	piece	150.00
	Automatic switch INDUSTRIAL.250SL 250A	piece	300.00
	Automatic switch 160 A	piece	400.00
	Automatic circuit breaker 80 A	piece	200.00
	Automatic circuit breaker 630 A	piece	60.00
	Modular automatic switch 25A, 3P	piece	2.00
	Automatic switch 630A	piece	3.00
Automatic switch 400A	piece	4.00	
Automatic switch 250A	piece	3.00	
Automatic switches TOTAL:			11702.00

Vacuum switches	10 kV vacuum circuit breakers with an adaptation kit and DSh de-shunting devices and MRZS-0.5L devices	piece	35.00
	Switch OHB 40.25.32 HITACHI-ABB 35 kV	piece	6.00
	Vacuum switch 10 kV 1600 A	piece	4.00
	Vacuum switch 10 kV 630 A	piece	90.00
	Vacuum switch 10 kV BB/VL, BB/TEL	piece	10.00
	Vacuum switch 35 kV	piece	126.00
	Vacuum switch 35 kV 3AF0141; GL 107 F1	piece	3.00
	Vacuum switch B35B-LE-51/K-U1 35 kV	piece	1.00
	Vacuum switch with a voltage of 20 kV SIMENS 3AE 24 kV, 2000 A, 25 kA	piece	10.00
	20 kV vacuum circuit breaker SIMENS 3AE13, 24 kV, 800 A, 16 kA	piece	60.00
	Oil switch 35 kV	piece	1.00
	Oil switch SMV-110 kV VMT-110B-25/1250 GL312	piece	1.00
	35 kV vacuum circuit breaker complete with current transformers	piece	3.00
	Block with vacuum circuit breaker 35 kV complete with dry current transformers and 1 set. disconnectors with grounding knives	piece	1.00
	Block with vacuum circuit breaker 35 kV complete with dry current transformers and 2 sets. disconnectors with grounding knives	piece	2.00
	Vacuum switch 35 kV	piece	4.00
	Vacuum switch 10 kV	piece	37.00
	Vacuum switch 10 kV	piece	90.00
	Recloser 35kV (modular switch), 630A, 20kA	piece	9.00
	Vacuum switch 10kV, 630A, 25kA	piece	4.00
Vacuum switch BB/VI-12-20/1000	piece	4.00	
10 kV switch (3AP1FG-72.5/40/4000)	piece	1.00	
Vacuum switches TOTAL:			502.00
Electric gas switches	Circuit breaker LTB 800E4 HITACHI-ABB 750 kV	set of 3 phases	2.00
	Switch LTB-420E2 "ABB"	set of 3 phases	12.00
	Electric and gas switch 110 kV	piece	56.00
	Electric and gas switch 150 kV	set of 3 phases	20.00
		piece	3.00
	Electric and gas switch ABB LTB-420E2 220 kV	piece	8.00
Electric and gas switch HPL 245B1 1AT 220 kV	piece	2.00	

	Electric and gas switch HPL 245B1, or analogue I=3150A, U=220 kV, Idisconnect=50 kA	piece	1.00
	Electric gas switch HPL 245B1, block switch	piece	1.00
	Electric and gas switch LTB 145-110-40/3150 HITACHI-ABB 110 kV	set of 3 phases	8.00
	Electric gas switch LTB 145D1/B; GL312	piece	2.00
	Electric and gas switch LTB 420E2 330 kV	set of 3 phases	1.00
	Electric and gas switch VHT-110.III-40/3150U1 with a universal drive complete with racks H=1890 mm	piece	3.00
	Electric and gas switch HITACHI-ABB 330 kV (Inom - 4000A; I _{kz} -40 kA)	set of 3 phases	10.00
	Electric and gas circuit breaker HITACHI-ABB 150 kV (operating current, not less than A: 4000; Rated tripping current, not less than kA: 50)	set of 3 phases	5.00
	Switch LTB 245-220-40/4000 HITACHI-ABB 220 kV	set of 3 phases	12.00
	Electric and gas switch 330 kV 4000A (Unom - 420 kV; Inom - 4000A; I _{kz} - 63 kA)	set of 3 phases	3.00
	Hybrid electric and gas switchgear (GRPE) 110 kV/2500A/40 kA/50 Hz.	piece	7.00
	Electric and gas switch LTB LTB 123D1/B HITACHI-ABB 110 kV	set of 3 phases	9.00
	Circuit breaker 110 kV LTB 145 D1/B (Unom - 110 kV; Inom - 4000A; I _{kz} - 40 kA)	set of 3 phases	3.00
	Switch 110 kV HPL 170B1 4000 (Unom - 110 kV; Inom - 4000A; I _{kz} - 50 kA)	set of 3 phases	16.00
Electric and gas switches TOTAL:			184.00

Measuring devices	Voltage indicator up to 1000 V. INEX-1-SZ voltage indicator	piece	107.00
	Voltage indicator 6-10 kV. Voltage indicator "UVN Poisk-10 AM" with cover	piece	65.00
	Voltage indicator 35-110 kV. High voltage indicator "Equivolta 35-110 K"	piece	27.00
	Gas analyzer TESTO 350	piece	1.00
	UNICO SpectroQuest 4802 scanning spectrophotometer	piece	2.00
	Chromatograph "Krystallux-4000M" with a set of ZIP	piece	1.00
	Portable metallographic microscope UIT PM 500	piece	1.00
	Defectoscope UD 4 – 76 NPF	piece	1.00
	USE-55 Pro defectoscope	piece	1.00
	Laboratory electric furnace L9/11 "Nabertherm" for determining the ash content of solid fuel	piece	1.00
	Microohmmeter	piece	1.00
	OMICRON CMC356 Licensed Universal Relay Protection Tester and Commissioning Test Kit	piece	1.00
	APPA 105N digital multimeter	piece	8.00
	MIRA-A VOLTAMPERPHASE METER WITH BUILT-IN REGISTER OF ANALOG SIGNALS	piece	8.00
	Automatic calorimeter "AS-600 LECO"	piece	1.00
	Portable underground multi-gas analyzer type MX6 iBRID or similar.	piece	28.00

	Flow meter. Micro Motion F025S-115-C-2-FZEZZZZ, or analog (flow measurement range - from 136.00 kg/h to 2720 kg/h).	piece	12.00
	Flow meter. Measuring converter 2700R-1-1-AFFEZZZ-PK of the Micro Motion mass flow meter or similar.	piece	10.00
	The measuring complex. Flowtek VR-2 or similar	piece	8.00
	Ultrasonic liquid level indicator in the gas separator with electric output.	piece	20.00
	Radiometer-dosimeter. • The power range of the equivalent dose of gamma and X-ray radiation (137Cs), $\mu\text{Sv} / \text{h}$ 0.1 - 999	piece	20.00
	Control system for pumping drilling mud parameters. Software complex, flow meter, density meter, auxiliary devices;	kit	3.00
	Natural gas analyzer. ASTM D1945, GPA 2261 (TCD/TCD configuration), ISO 6976	kit	15.00
	Natural gas analyzer. ASTM D3588-98, GPA 2172 (3 μ -TCD configuration, 3 (WCOT and PLOT) columns), ISO 6976	kit	5.00
	Flow meter. Diligens Spectra (Mobil multiphase production test unit) - Schlumberger, Alpha VS/RD, Red Eay - Weatherford, or similar. The mobile multiphase meter should provide measurement of the flow rate of the well from heavy to light hydrocarbon products, ensure the division of products into phases - gas, formation water, condensate, mechanical impurities in percentage or cubes to the total extracted products for a certain period of time. Products can be measured by all generally accepted means, except for the radioactive method of measurement. Installation of the measuring device should take a short period of time, take place directly at the mouth of the well (fountain armature of the cross or tee type, well plume). Possibility to measure products with H2S, CO2 content.	piece	3.00
Measuring devices TOTAL:			350.00
Supplies	Bandage tape IF 207	km	0.20
	Slate nails, 5*120 mm	tons	0.05
	Composite mothers. Composite mats used for quick construction of a temporary road. Main specifications are approximate and may be adjusted depending on availability: Overall dimensions: 8' x 14' x 4" (2.44mx 4.27mx 10.2cm) Effective surface: 7' x 13' (2.13mx 3.96m) Weight: 1,000 lbs. . (454 kg) Bearing capacity, not less than 600 psi	piece	2750.00
	Individual filter on the inlet line of the LEWA LDD1 dosing pump (50/250). Individual filter on the inlet line of the LEWA LDD1 dosing pump (50/250)	piece	54.00
Consumables TOTAL:			2804.25
Fiber optic cables	Fiber optic cable [UT004-SM-15LSZH]	km	0.26
	Fiber optic cable	km	10.00

	Fiber optic cable "Lankore UT 008 SM ADSS 1.0kN"	km	10.00
	Fiber optic cable "OKTBg-M"	km	10.00
Fiber optic cables TOTAL:			30.26
Generator <10 kW	Electric energy generator 5-6 kW, 0.4 kV	piece	3.00
	Generator (petrol/diesel) 4.5-7 kW	piece	5.00
	Inverter gas gasoline generator KS 8100iEG	piece	2.00
	Gasoline generator 7.5 kW Forte FG9000E	piece	5.00
	Honda 5.5 kW single-phase gasoline generator	piece	5.00
	Diesel generator. 2.8 - 6.0 kW, 220 V	piece	7.00
	Diesel generator. 8 kW, 220 V	piece	1.00
	Diesel generator. 6 kW, 3-phase	piece	12.00
	Diesel generator. up to 10 kW	piece	4.00
	Diesel generator. up to 10 kW, 220 V	piece	10.00
Generator <10 kW TOTAL:			54.00
Generator 1000-1500 kW	Diesel generator. 220 - 380 V, not less than 1.0 MW	piece	9.00
Generator 1000-1500 kW TOTAL:			9.00
Generator 100-300 kW	220 kW diesel power plant	piece	1.00
	Diesel generator 290 kW	piece	2.00
	Diesel generator. Power: 120-250 kW. Voltage: 0.4 kV.	piece	14.00
	Diesel generator. With cabin, 120 - 230 kW.	piece	16.00
	Diesel generator. 100-220 kW, 380 V	piece	17.00
	Diesel generator. 118 kW, 3-phase	piece	6.00
	Diesel generator. 100-300 kW	piece	3.00
	Diesel generator. 100 - 120 kW	piece	3.00
	Diesel generator. 220 - 380 V, not less than 250 kW	piece	2.00
	Diesel generator. 140 kW; 380 V	piece	1.00
Generator 100-300 kW TOTAL:			65.00
Generator 10-30 kW	Electric power generator 11-15 kW, 0.4 kV	piece	1.00
	Electric energy generator 17-20 kW, 0.4 kV	piece	4.00

	Diesel generator 10 kW	piece	1.00
	Diesel generator 15 kW	piece	1.00
	Generator (petrol/diesel) 15 kW	piece	3.00
	Matari MR22 diesel power plant	piece	3.00
	Diesel generator. 16 kW, 380 V	piece	2.00
	Diesel generator. 15 kW, 400/230 V	piece	1.00
	Diesel generator. 15 kW; 380 V	piece	8.00
Generator 10-30 kW TOTAL:			24.00
300-500 kW generator	400 kW diesel generator	piece	1.00
	Gas power plant. Nominal electric power, not less than 400 kW. Nominal voltage 0.4 kV. Nominal frequency 50 Hz. The type of fuel is natural gas.	piece	2.00
	Diesel generator. 450 kW	piece	1.00
	Diesel generator. 400 kW, 380 V	piece	1.00
	Diesel generator. 300 - 500 kW, 380V	piece	6.00
	Diesel generator. 220 - 380 V, not less than 320 kW	piece	4.00
Generator 300-500 kW TOTAL:			15.00
Generator 30-100 kW	Diesel generator 70-100 kW on the chassis	piece	1.00
	Electric power generator 30-35 kW, 0.4 kV	piece	3.00
	Electric energy generator 40-45 kW, 0.4 kV	piece	1.00
	Diesel generator 75 kW	piece	1.00
	Generator (petrol/diesel) 75 kW	piece	1.00
	Diesel generator 66 kW	piece	1.00
	Diesel generator. 35 kW	piece	18.00
	Diesel generator. With cabin, 60 - 80 kW.	piece	13.00
	Diesel generator. 30-80 kW	piece	17.00
	Diesel generator. 220 - 380 V, 30 kW	piece	2.00
Diesel generator. 40 kW	piece	7.00	
Generator 30-100 kW TOTAL:			65.00
500-700 kW generator	Gas power plant. Nominal electric power, not less than 600 kW. Nominal voltage 0.4 kV. Nominal frequency 50 Hz. The type of fuel is natural gas.	piece	4.00

			55
	Diesel generator. 600 kW, 380 V	piece	1.00
Generator 500-700 kW TOTAL:			5.00
Uninterruptible power supplies	Uninterruptible power supply. Nominal power: 1-6 kW	piece	444.00
	Uninterruptible power supply unit. UPS, uninterruptible power supply unit, 3 kW	piece	8.00
	Uninterruptible power supply unit. UPS, uninterruptible power supply unit, 20 kW	piece	2.00
	Uninterruptible power supply. 220 V, autonomous operation time at a load of 5 kW - 30 minutes.	piece	29.00
	Uninterruptible power supply. 380 V, autonomous operation time at a load of 40 kW - 15 minutes.	piece	1.00
	Uninterruptible power supply unit. UPS, uninterruptible power supply unit: 12 V, 100 W.	piece	60.00
	Uninterruptible power supply unit. UPS, uninterruptible power supply unit: 24 V, 100 W.	piece	10.00
	Power supply JI 12/3. Power supply JI 12/4	piece	40.00
	Uninterruptible power supplies. Atlas Copco ZBP 45 or similar	piece	5.00
Uninterruptible power sources TOTAL:			599.00
Diesel	Diesel fuel - Winter - Euro 5	tons	203.00
Diesel TOTAL:			203.00
Jacks	Hydraulic jacks 5 tons.	piece	3.00
Jacks TOTAL:			3.00
Excavators	Mini excavator with a digging depth of up to 1.5 m	piece	1.00
	JCB 35Z-1 mini-excavator. Perkins 403J-17, Tier 4 Final, three-cylinder liquid-cooled diesel engine. Full power at 2,200 rpm - 24.7 hp. (18.4 kW) Traction force - 25.6 kN, Max. speed - 4.5 km/h.	piece	1.00
	Backhoe loader JCB 4CX SITEMASTER 100 hp	piece	1.00
	Universal backhoe loader JCB 3CX SITEMASTER.	piece	1.00
	Excavator "JCB" 3CX Compact	piece	2.00
Excavators TOTAL:			6.00
Electrical household equipment	Refrigerator Grunhelm GTF-159M	piece	1.00
	The dryer is industrial. RUBIN MCB302 or similar	piece	1.00
	Washing machine. The content of laundry is not less than: 30 kg, electric steam heating. RUBIN CO253 or similar	piece	1.00

Electrical household equipment				3.00
TOTAL:				
Electric motors < 10 kW	Electric motor. Voltage - 380/660V, - rotation frequency - 1500 rpm, - power - 5.5 kW	piece		20.00
Electric motors < 10 kW TOTAL:				20.00
Electric motors > 110 kW	Electric motor 250 kW 1500 rpm. 0.4 kV	piece		6.00
	Electric motor VAIU160-18.5-1140/661	piece		2.00
	Electric motor VAO 450-250/1140-660/1000RPM	piece		4.00
	Electric motor VAO2-450 315/6kV.	piece		1.00
	Electric motor VAO2-450/315/7	piece		4.00
	Electric motor VAO2-560-500 kW/6kV/1500 rpm	piece		2.00
	Electric motor VAO2-560-500/7	piece		1.00
	Electric motor VRP132-11-380/661	piece		2.00
Electric motors > 110 kW TOTAL:				22.00
Electric motors 11-110 kW	Electric motor VAIU160-18.5-1140/661	piece		2.00
	Electric motor VAIU160M4-18.5/1140/660.	piece		2.00
	Electric motor VAIU180M4-30/1140/661	piece		6.00
	Electric motor VRP132-11-380/661	piece		2.00
Electric motors 11-110 kW TOTAL:				12.00
Electrotechnical laboratories	VLF test rig CR-60 for testing cables with a voltage of up to 35 kV with a frequency of 0.1 Hz of a cosine-rectangular shape	piece		1.00
Electrical laboratories TOTAL:				1.00
Grounding devices are neutral	Neutral grounding device ZON-110-UHL1	piece		2.00
Neutral grounding devices TOTAL:				2.00
Electric fuses and accessories	Sponges K-16 for PC fuses	piece		500.00
	NH2 fuse	piece		6.00
	Fuse NH2, PN22-100-00 UHL3 for 100A, copper	piece		60.00
	Fuse NH2, PN22-250-00 UHL3 for 160A, copper	piece		60.00

	Fuse NH2, PN22-250-00 UHL3 for 200A, copper	piece	60.00
	Fuse NH2, PN22-250-00 UHL3 for 250A, copper	piece	90.00
	Fuse NH2, PN22-400-00 UHL3 for 400A, copper	piece	90.00
	Fuse PK-10 (10 A)	piece	201.00
	Fuse PK-10 (16 A)	piece	270.00
	Fuse PK-10 (20 A)	piece	786.00
	Fuse PK-10 (31.5 A)	piece	183.00
	PKT fuse 011-10-16-31.5 U1 10 kV	piece	120.00
	PKT fuse 011-6-20-40 U1 brass (set)	piece	120.00
	PKT fuse 012-10-40-31.5 U1 brass (set)	piece	120.00
	PKT fuse 012-6-80-20 U1 brass (set)	piece	240.00
	PKT fuse 013-10-100-31.5 U1 brass (set)	piece	120.00
	PKT fuse 013-6-100-31.5 U1 brass (set)	piece	120.00
	PKTN 10kV fuse	piece	60.00
	Fuse PN-10	piece	30.00
	Fuse PN-2 100 A	piece	900.00
	Fuse PN-2 160 A	piece	900.00
	Fuse PN-2 250 A	piece	900.00
	Fuse PN-2 400 A	piece	700.00
	Fuse PN-2 630 A	piece	400.00
	Fuse PN-2-100 A	piece	600.00
	Fuse PN-2-250 A	piece	600.00
	Fuse PT 011-10-16 A-31.5	piece	660.00
	PT fuse 011-10-16-31.5 U3 16A 10 kV	piece	30.00
	PT fuse 011-10-20-31.5 U3 20A 10 kV	piece	30.00
	Fuse PT 011-10-25 A-31.5	piece	600.00
	PT fuse 011-10-31.5 U3 31.5 10 kV	piece	30.00
	Fuse PT-10	piece	30.00
	Fuse standard VDE 0670/4	piece	6.00

Electric fuses and accessories

9622.00

TOTAL:

Spare parts	Compressor spare parts. Compressor 300-C1: Model – 442B4, Serial No – 442-4-5720	piece	46.00
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	Spare parts for the turbine. Turbine 300-T1: Model – RCG-3, Serial No – T-5384	piece	115.00
	Bushing. For drilling pump F-800 of KRS ZJ-20 type installations: BS100101051700 f 100-140 mm or similar.	piece	45.00
	Piston. For drilling pump F-800 of KRS ZJ-20 type installations: BS100101051400 f 100 - 140 mm or similar	piece	90.00
	JC21D winch drum spare parts. Airbag TPQ 124-05 (pneumo clutch); Friction plates TPQ 124-04; Spring TPQ 124-02	piece	43.00
Spare parts TOTAL:			339.00

Means of voice radio communication	Motorola VHF radio stations	piece	10.00
	Telephone set OpenStage 40 (Audiocodes 450HD)	piece	30.00
	walkie-talkies Communication range - 10-20 km	kit	560.00
	Sense. Power at least: 5W, channels at least: 16, frequency range: 400-470 MHz. Baofeng BF-888S, or similar	piece	10.00
Means of voice radio communication TOTAL:			610.00

Tools for metal welding	Electrodes Monolith RC, Ø3.0mm	tons	0.10
	Welding machine VDY-200E DC MMA(UA) case//PATON	piece	8.00
	Welding machines for thermistor welding of polyethylene pipes type Kamitech KmT 2k5 S in a set	piece	1.00
	Welding machines of inverter type 250A	piece	3.00
	Thermal cartridge PAS-120	piece	50.00
	Thermal cartridge PAS-150	piece	40.00
	Thermal cartridge PAS-185	piece	80.00
	Thermal cartridge PAS-70	piece	80.00
	Thermal cartridge PAS-95	piece	60.00
	Thermal matches	pack	50.00
Means for welding metal TOTAL:			1172.10

Personal protective equipment	First aid kit medical (production)	piece	500.00
	Tourniquet "NAR Combat Application Tourniquet (CAT)"	piece	600.00
	Dielectric gloves. Dielectric rubber gloves of class 1, category R, C	piece	200.00
	Protective helmet with a helmet	piece	309.00

	Grounding device	piece	5.00
	Respirators R-30EH. The time of the protective effect during work of medium severity, h. - 4; Mass in the equipped state (fully filled with oxygen), without a mask without ice and a refrigerator cover with a metal-composite cylinder, no more, kg - 11.8; Mass in the equipped state (fully filled with oxygen), without a mask, with ice and a refrigerator lid, not less, kg - 12.6; Weight of a full-face mask, no more than kg - 0.7; Weight of chemical lime absorber, no more, kg - 2.3; Oxygen supply in the cylinder, l - 400; Working pressure in the cylinder, MPa - 20; The working pressure of the sound signal, MPa - 5.5±0.5; Constant oxygen supply, l/min - 1.4 ±0.1; Emergency supply of oxygen, not less, l/min - 80; Pressure of operation of the pulmonary machine, no more than Pa - 350; Pressure of operation of the redundant valve, Pa - 150...400; Useful capacity of the breathing bag, not less, l - 5; Dimensions, mm - 450 × 375 × 165 ±5; The service life of the respirator before decommissioning is at least 10 years	piece	538.00
	Apparatus for artificial lung ventilation.	piece	65.00
	Respirators R-30EH.	piece	204.00
	Kits of first-aid kits. Army type	piece	700.00
	Gas mask (panoramic). The mask is panoramic and the filter is combined	piece	1700.00
Personal protective equipment TOTAL:			4821.00
Means of climate control	Autonomous diesel car heater 12-24 V / 55W / 5000W / 47x22.5x51 / KW 2.0 Assembled (B-0222-EL2)	piece	3.00
	Electric convector 1750 W	piece	3.00
	Air conditioner GWH28ACE-K3NNA1A Gree	piece	3.00
	Haier Pearl air conditioner	piece	1.00
	Air conditioner Samsung SH-12	piece	2.00
	Electric convector heater 1500 W	piece	5.00
	AQ 12 split system	piece	1.00
	Heat gun 5 kW	piece	3.00
	Heat pump	piece	2.00
	Split-type crane air conditioner RKK 3.5-1 with a cooling capacity of 3.5 kW	piece	2.00
Ceiling air conditioner. Inverter split system, min. 6 kW.	piece	1.00	
Means of climate control TOTAL:			26.00
Fire extinguishing means	Fire extinguisher VVK-18	piece	4.00
	Fire extinguisher VVK-5 (OU-7)	piece	3.00

			60
	Carbon dioxide fire extinguishers "OU-5"	piece	30.00
Fire extinguishing means TOTAL:			37.00
Means of video surveillance systems	Switch box (access switch) Huawei S5720I-10X-PWH-SI-AC (8*10/100/1000BASE-T ports, 2*10GE SFP+ ports, PoE++, AC power supply) [S5720I-10X-PWH-SI-AC]	piece	1.00
	Box for switch box Cable cover (S5720I-10X-PWH-SI-AC)	piece	1.00
	Dome-shaped stationary video camera IPC6355-VRZ 5MP Network IR Dome Camera [IPC6355-VRZ]	piece	6.00
	Network cable S/FTP, category 5e [S/FTP4x2x0.51]	km	0.19
	Wire with a copper core with PVC plastic insulation, increased flexibility [VVG ngD 3x2.5]	km	0.00
	Video endoscope	piece	1.00
Means of video surveillance systems TOTAL:			9.20
Means of cellular communication	Satellite phones.	piece	50.00
	Satellite phone. Satellite phones	kit	20.00
Means of cellular communication TOTAL:			70.00
Means of satellite communication	Starlink ethernet adapter	piece	8.00
	Satellite phones	piece	30.00
	A set of satellite Internet. Based on Starlink	piece	60.00
Means of satellite communication TOTAL:			98.00
Means of telecommunication and telemechanics	High-frequency limiter of the 110 kV communication system	piece	2.00
	Media converter "Step4Net"	piece	50.00
	Step4Net media converter with power supply unit	piece	50.00
	Phone Panasonic KX-TS2350 UA	piece	1.00
	Portable radio station Kirisun DP-405	piece	23.00
	Portable radio station Hytera HP-605	piece	15.00
	Radio repeater HYTERA HR 1065	piece	2.00
	HR1065 Basic	piece	2.00

	Duplexer with a set of cables	piece	2.00
	Antenna RAD 4204 (4 loop vibrators)	piece	2.00
	Telemechanics controller	piece	60.00
	MOXA US 5101 controller	piece	5.00
	Repeater stationary Hytera RD985S, repeater (136-174) RD985S(Advanced) SW00008	piece	10.00
	Stationary radio station Hytera MD785i (L) (136-174 MHz) with Smart Dispatch software	piece	10.00
	Omnidirectional antenna RAD-1504	piece	10.00
	Radio stations portable (wearable) digital Hytera PD605 (136-174)	piece	25.00
	Radio stations mobile (portable) Hytera MD785i (L) (GPS) (136-174)	piece	40.00
Means of telecommunication and telemechanics TOTAL:			309.00

Electric connecting and tensioning clamps (linear and hardware)	GUKo2 anchor clamp	piece	500.00
	Anchor clamp GUKp1	piece	700.00
	A4A-120 hardware clamp	piece	40.00
	A4A-150 hardware clamp	piece	40.00
	Hardware clamp A4A-185	piece	90.00
	Hardware clamp A4A-240	piece	80.00
	Hardware clamp A4A-300	piece	21.00
	A4A-70 hardware clamp	piece	90.00
	A4A-95 hardware clamp	piece	90.00
	Deburring clamp TTD151FJ2TA	piece	50.00
	Branching clamp for branching from non-insulated NTD 151 AF lines	piece	50.00
	Branching clamp OA 300-1	piece	15.00
	Clamp connecting die PA 2-2 or similar	piece	60.00
	Clamp connecting die PA 3-2 or similar	piece	60.00
	Clamp connecting die PA 4-1 or similar	piece	60.00
	Clamp connecting die PA 5-1 or similar	piece	60.00
	Clamp connecting die PS 1-1 or similar	piece	30.00
	Connecting clamp CAC-330-1 or similar	piece	48.00
	Connecting clamp SOAS 120-3 or similar	piece	60.00
	Connecting clamp SOAS 150-3 or similar	piece	60.00

Connecting clamp CAC-240	piece	20.00
Connecting clamp CAC-300-1	piece	10.00
Connecting clamp SOAS-120	piece	50.00
Connecting clamp SOAS-150	piece	50.00
Connecting clamp SOAS-185	piece	50.00
Connecting clamp SOAS-25	piece	700.00
Connecting clamp SOAS-35	piece	1000.00
Connecting clamp SOAS-50	piece	900.00
Connecting clamp SOAS-70	piece	200.00
Connecting clamp SOAS-95	piece	50.00
Oval connecting clamp SOAS-120	piece	900.00
Connecting oval clamp SOAS-150	piece	250.00
Oval connecting clamp SOAS-185	piece	200.00
Connecting oval clamp SOAS-95	piece	1000.00
Clamp ZN 2-4	piece	30.00
AC 300 and AC -500 wedge clamp	piece	2.00
Wedge tension clamp NKK 1-1B	piece	50.00
Wedge tension clamp NKK 2-1	piece	40.00
ZNM 120 tension mounting clamp	piece	20.00
Tension clamp 2x(16-35) GUKp2	piece	100.00
Tension clamp GUKd2 2x (16-35)	piece	200.00
Tension clamp GUKd4 4x(16-35)	piece	200.00
Tension clamp GUKo1	piece	100.00
Tension clamp GUKo2	piece	50.00
Tension clamp GUKp2	piece	10200.00
Tension clamp GUKp4	piece	3000.00
Tension clamp GUKp4 4x(16-35)	piece	100.00
Pressed tension clamp NAS-500-1	piece	36.00
Tension clamp type NAS 300-1	piece	4.00
Clamp NBN 2-6	piece	80.00
Clamp NBN 3-6B	piece	60.00
Pressing clamp OA 240-1	piece	40.00
PGN clamp 2-6	piece	400.00

PGN clamp 3-5	piece	200.00
Die clamp PA 1-1	piece	73000.00
Die clamp PA 2-1	piece	300.00
Die clamp PA 3-2	piece	1200.00
Die clamp PA 4-1	piece	300.00
Die clamp PA 4-1	piece	100.00
Die clamp PA 5-1	piece	80.00
Die clamp PA 2-2	piece	1200.00
NTD 151 piercing branching clamp	piece	3000.00
NTD 201 piercing branching clamp	piece	700.00
Clamp piercing branching TTD 201	piece	5000.00
Clamp piercing branching TTD 151	piece	800.00
Clamp SOAS-120	piece	100.00
Clamp SOAS-150	piece	100.00
Clamp SOAS-185	piece	100.00
Clamp SOAS-35	piece	300.00
Clamp SOAS-50	piece	650.00
Clamp SOAS-70	piece	800.00
Clamp SOAS-95	piece	670.00
PS 1-1 steel clamp	piece	6500.00
PS 2-1 steel clamp	piece	1100.00
BRANCHING CLAMP ZV-1.1.2	piece	2000.00
BRANCHING CLAMP ZV-1.2.2	piece	20000.00
CLAMP BRANCHING PIERCING Z-2061	piece	2000.00
TENSION CLAMP ZN-1.1	piece	20000.00
TENSION CLAMP ZN-2.1	piece	1000.00
TENSION CLAMP ZN-2.3	piece	2000.00
SUPPORT CLAMP ZP-3.1	piece	4000.00
Clamp SAC-240	piece	20.00
Clamp supporting PGN 3-5	piece	500.00
Clamp SOAS-120-3	piece	500.00
Spiral repair clamp type CP-24.5-1A	piece	200.00
Spiral repair clamp type CP-17,1-1A	piece	400.00

	Spiral repair clamp type CP-15,2-1A	piece	400.00
	Clamp SOAS-150-3	piece	200.00
	Spiral repair clamp type CP-21,6-1A	piece	400.00
	Spiral repair clamp type CP-13,3-1A	piece	300.00
	PGN 5-6 type supporting clamp	piece	100.00
	Connecting clamp ZSS-13.5-3A	piece	100.00
	Connecting clamp ZSS-15,2-3A	piece	100.00
	Clamp PAS-120	piece	180.00
	Clamp PAS-150	piece	180.00
	Clamp PAS-185	piece	180.00
	Clamp PAS-240	piece	180.00
	Clamp PAS-95	piece	210.00
	Tension clamp type SO 158.1	piece	3.00
Electric connecting and tension clamps (linear and hardware)			173649.00
TOTAL:			

Insulators	Insulator IO-10-3,75 II U3	piece	300.00
	Insulator IOR-10-3.75 UHL2	piece	450.00
	Insulator IOS-10-500 UHL 1	piece	300.00
	Insulator IOS-110/400M	piece	36.00
	Insulator IPU-10/1600	piece	10.00
	Insulator IPU-10/630 with an oval flange	piece	56.00
	Insulator IPU-10/630-7.5-1 UHL1 OVAL FLAN	piece	600.00
	Insulator IO-10	piece	260.00
	Insulator IO-10	piece	400.00
	IO-10/3.75 insulator	piece	4060.00
	Insulator IOS 110/400	piece	120.00
	Insulator IOS 35/500	piece	180.00
	Insulator IP-10	piece	240.00
	Insulator IPU-10	piece	200.00
	Insulator IPU-10/630-7,5-1 UHL1	piece	1400.00
	Insulator LKTS-70-110-2-01	piece	50.00

	Insulator LKTS-70-35-2-01	piece	50.00
	Insulator OS-110/300	piece	50.00
	Insulator OS-110/400	piece	50.00
	Insulator PS-10/7.5	piece	100.00
	Insulator PS-70E	piece	10116.00
	Insulator PSV-120B	piece	972.00
	Insulator TF-20	piece	8000.00
	ShF-20 insulator	piece	20100.00
	Insulator ShF-20G	piece	1500.00
	Gasket for insulator IPU-10/630-7.5-1 UHL1 OVAL FLAN	piece	600.00
	ShF-20 insulators	piece	115.00
	Insulators TF-20	piece	200.00
	Pass-through insulator IP-10\630 UHL2	piece	15.00
	Support insulator IO-10-3.75 UZ	piece	3.00
	Pass-through insulator IPU-10/630	piece	60.00
Insulators TOTAL:			50593.00

Suspended insulators	Insulator PS-70	piece	7000.00
	Insulator LKTS-120/150-7	piece	800.00
	Insulator LKTS-35/70	piece	790.00
Suspended insulators TOTAL:			8590.00

Inverters	Solar panel inverter TSOL-M800(DE)	piece	27.00
Inverters TOTAL:			27.00

Electric tools	Chainsaw Husqvarna 365, STIHL 260	piece	50.00
	Makita DGA511Z cordless angle grinder	piece	4.00
	Angle grinder 1.5 kW	piece	3.00
	Angle grinder 2.5 kW	piece	3.00
	A set of tools	piece	8.00
	Battery soldering iron ZD-20G 8W, 380-450°C	piece	10.00
	Perforator	piece	2.00
	Makita DHR243Z cordless drill	piece	2.00

	Electrical measuring clamps up to 1000 V. Electrical measuring clamps up to 1000 V UNI-T UT216A	piece	40.00
Electric tools TOTAL:			122.00

Mechanical tools	Cordless chainsaw STIHL HT86 complete with backpack battery AR2000 and charger.	piece	8.00
	Chainsaw MS 180 C-BE	piece	30.00
	Chainsaw MS 361	piece	30.00
	Hydraulic stand for the drum	piece	1.00
	Drum stand	piece	1.00
	Hydraulic press	piece	1.00
	Tool sets (screwdrivers, pliers, pliers, etc.)	piece	86.00
	Exothermic cutting complex. Ensuring the temperature at the cutting site is not less than 5530 °C.	kit	1.00
	Pressure transducers. The pressure drop measurement range is 0...63 kPa; The maximum absolute pressure of the measurement is 5.5 MPa; The temperature measurement range is from -40 to +60 degrees. WITH.;	kit	40.00
Mechanical tools TOTAL:			198.00

Other cable products	Optical connecting cord (patch cord). SC/UPC – SC/UPC ОцПс-1А1(1x1)-1.0 200m 18mx100mx5m	piece	1.00
Other cable products TOTAL:			1.00

Other	Accumulator tank	piece	2.00
	DIN rail e.din.stand.rail.101, 25 cm	piece	2.00
	PZIP e.PO I 1+1 e 280V/7kA class I+II+III, 1 pole + N-PE	piece	2.00
	Three-seat outlet with grounding	piece	2.00
	Short circuit device	piece	5.00
	Load switch VNA-10/400-20 U3	piece	3.00
	Load switch VNR-10/630	piece	2.00
	Load switch VN-16-10/630	piece	3.00
	Load switch VNA-10/630-20-with U3	piece	1.00
	KTPGS-6/0.4 kV 250 kVA	piece	2.00
	SHTP-6/0.4 kV 160 kVA	piece	3.00
	Design and research works "Laying of a fiber-optic communication line along the route "Substation 150 kV Mayovka - Tsarychanskii REM - Substation 150 DLB"	kit	1.00

	Design and research work: "Laying of a new optical fiber line Podilsk - Dobroslav-PL 110 kV Yuzhne Energy - Substation Ajalyk (Substation Sychavka)"	kit	1.00
	Design and research work on modernization with replacement of the radio relay communication system on the section Kyiv - Bila Tserkva	kit	1.00
	Processing/reprocessing of seismic data in the Eastern region of the Dnieper-Donets Basin (Ukraine). Seismic data reprocessing	piece	1.00
	Engineering services for the construction of a deep hydrocarbon recovery facility. Development of project, technical, operational documentation	piece	1.00
	Collection of 3D seismic data in the Eastern (Dnieper-Donets Basin) or Western (Carpathian) region of Ukraine. 3D seismic data services	piece	1.00
	Geophysical and hydrological studies for a complex geothermal project in Transcarpathia Petrophysical studies for a geothermal complex project CCS design and monitoring. Complex geothermal R&D project of the Solotvy deposit	piece	1.00
	Construction of a methanol plant. Preliminary feasibility study.	piece	1.00
Other TOTAL:			35.00

Other relay protection and automation equipment	Automatic control of switches REC650 (7VK87) 110-220 kV	piece	29.00
	Automatic elimination of asynchronous mode REL670	piece	8.00
	High-frequency post UPZ "Orion"	piece	28.00
	Remote and maximum current protections of PL 110-220 kV (REL650)	piece	12.00
	Remote and overcurrent protections REL670 (7SA87) PL 330-750 kV	piece	14.00
	Differential busbar protection REB670 (7SS85) 110-750 kV	piece	12.00
	Differential protection of AT or analogue 330-750 kV	piece	4.00
	Differential protection of the RED670 line (7SL87)	piece	1.00
	Protection and KBFP on an electromechanical relay, REB670 or 7SS85	piece	2.00
	750 kV Shunt Reactor Protection, Shunt Reactor Circuit Breaker Control, RET670	piece	4.00
	Set of relay protection of overhead lines 150 kV L-32 and L-34. (ABB: REC, REL), (GE: L-60), Siemens.	piece	2.00
	Insulation control of inputs of autotransformers 7SJ804	piece	2.00
	Microprocessor terminals RZA RS80-MR	piece	110.00
	Microprocessor terminals RZA RS83-AV2	piece	60.00
Microprocessor terminals RZA RS83-VS	piece	18.00	
Microprocessor terminals RZA RS83-DT2	piece	16.00	

Phase break detection device, automatic overvoltage protection REC670	piece	8.00
Differential protection device RS-830-DT3	piece	3.00
Differential protection device RS-83-DT2	piece	3.00
Protection device MRZS-05L_m AIAR.466452.001-40.1	piece	10.00
Protection device RS 80 MR	piece	25.00
Protection device RS-83 AV2	piece	3.00
RTN-565 differential relay	piece	1.00
Minimum voltage relay RN-54/160	piece	1.00
Relay RN-55/200	piece	1.00
Relay RP-23 0.5-9sec, 220V	piece	2.00
Relay RPV-58 (direct current)	piece	2.00
RTZ-80 relay 1.2 m/s, 0.6 m/s	piece	1.00
Relay RU-21 0.05A	piece	2.00
EV-112 relay ± 220 V, 0.1-1.3s	piece	4.00
EV-134 relay 0.5-9sec, 220V	piece	1.00
APK "Orion" terminal for receiving and transmitting commands	piece	3.00
Phase protection DFZ Diamant PL 330-750 kV	piece	21.00
Phase protection REL650 (7SA86) PL 330-750 kV	piece	14.00
Relay RP-252 ± 220 V	piece	5.00
Relay RP-251 ± 220 V	piece	1.00
Relay EV-123 ± 220 V, 0.25-3.5 sec	piece	1.00
EV-132 relay ± 220 V 0.5-9 s	piece	1.00
Power supply unit BP/TEL-220-02A	piece	6.00
Control unit of the BU/TEL-12 series for vacuum switches of the BB/TEL series	piece	12.00
RZL-05.V	piece	10.00
RZL-05.T2	piece	2.00
PE40	piece	30.00
PE40-M	piece	30.00
Microprocessor devices for relay protection of 10 kV line connections against emergency modes	piece	10.00
Backup protection device PL-110kV ABB REL650	piece	2.00
Connection protection device RS83-AB2	piece	1.00
Connection protection device ABB REF630	piece	1.00
ABB RET650 main transformer protection device	piece	2.00

Other relay protection and automation equipment TOTAL:	541.00
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Other tools and equipment	Metal cutting circle Zenit Standard 125x2.0x22.2 mm 10125020	piece	150.00
	Metal cutting circle Zenit Standard 180x2.0x22.2 mm 10180020	piece	60.00
	Metal cutting circle Zenit Standard 230x2.0x22.2 mm 10230020	piece	30.00
	Metal cleaning circle Zenit 180x6.0x22.2 mm 10180006	piece	9.00
	A set of hexagonal heads, 6-36 mm	piece	8.00
	A set of combined keys (corner-capsular) 6-32 mm	piece	8.00
	Three-element folding ladder up to 6 m	piece	3.00
	Tool with insulated handles	piece	140.00

Other tools and inventory TOTAL:	408.00
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Other means of communication	Communication capacitor 750 kV	piece	2.00
	Communication capacitor 330kV	piece	4.00
	High-frequency blocker, 4000A	piece	2.00
	Mobile cellular signal repeater with external panel antenna and internal signal antenna.	piece	50.00

Other TOTAL means of communication:	58.00
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Other tools and equipment	Industrial reverse osmosis system BWRO140-S	piece	3.00
	Separator block execution. 3-phase PN100. The maximum allowable pressure of the device is 10.0 MPa, the gas productivity range is up to 0.5 million n. m3/day, condensate productivity range up to 50 t/day, water productivity range up to 50 t/day. The separator is complete with safety valves (2 pcs.) with the possibility of blocking, corresponding flanges and fasteners. Equipped with mass flow meters for oil and water, a gas meter.	piece	2.00
	Separator block execution. 2-phase PN100. The maximum allowable pressure of the device is 10.0 MPa, the gas productivity range is up to 0.5 million n. m3/day, range of liquid productivity up to 50 t/day. The separator is complete with safety valves (2 pcs.) with the possibility of blocking, corresponding flanges and fasteners.	piece	2.00
	Block execution separators. 3-phase/2-phase; The maximum allowable pressure of the device is 10.0 MPa/6.3 MPa; Gas productivity - 0.5 million st. m3/day (at a pressure of 3.0 MPa)	piece	3.00

			70
	The heat exchanger is shell-and-tube. The maximum permissible working pressure of the pipe space is 10.0 MPa, the maximum permissible working pressure between the pipe spaces is 6.3 MPa.	piece	3.00
	A container for separating a liquid mixture (condensate, plastic water). Atmospheric with heating. Volume - 25 m3	piece	2.00
	Gas heater. Type of heater "gas-gas"; maximum working pressure PN55.	piece	1.00
	Steam combi oven. Power 15.8 kW, heating temperature 260 °C, number of levels 10, power supply: 380V. Unox XV893 or similar	piece	1.00
	Food containers for steam ovens. GN 1/1 - 65 mm Hendi 800126, or similar	piece	15.00
	Catalytic system of the block of hydrotreatment of diesel fuel. The duration of the first inter-regeneration run of hydro cleaning and dewaxing catalyts 1), at least, months - 24 2); Sulfur content in commercial diesel fuel, no more, ppm mass. - 10 3); The value of the decrease in the limit temperature of filterability in the winter mode, not less than 28 °C; 4); Limit temperature of filterability (GTP) of arctic commercial diesel fuel in winter mode, not higher, oC - minus 30 5); Clouding temperature of arctic commercial diesel fuel in winter mode, not higher, oC - minus 20 6); Output of diesel fuel (150 OC +, ASTM D86) at the beginning of the cycle7): - after reactor R-102, mass %, not less than - 99.51 - after reactor R-101, mass %, not less than - 93.22.	kit	1.00
	Small-sized repressurizing compressor stations. Gas pumping units with a gas piston drive, or gas motor compressors (productivity range 20-200 thousand n.m3/day, input pressure range Pin=5-10 atm, output pressure range Pout=25-55 atm. Drive of the air-cooled device (APO) - belt drive from the motor shaft; Without the use of an external power source.	piece	8.00
	Air gas cooling device. Range of nominal pressures: PN64 - PN160 Range of working pressures: 20-150 atm Inlet gas temperature: +100...+175C Outlet gas temperature: no higher than +45C Productivity range: 200...500 thousand n.m3/day Climatic execution : "minus 35" - "plus 40".	piece	8.00
	Propane refrigeration unit. Productivity range 100-500 thousand n.m3/day, PN64, Rrob=25 atm Provision of moisture dew point, not higher - "minus" 8 C (at 3.92 MPa); Provision of dew point for hydrocarbons, not higher than - 0 C (at working pressure).	piece	9.00
	Reverse osmosis system. Productivity at 15°C - 0.24 m3/h. Number and type of membranes: 1 piece 40 x 40.	piece	40.00
	Horizontal atmospheric capacity. 15 m4	piece	10.00
Other means and equipment TOTAL:			108.00
Other materials	Inert ceramic ball. Fractions: Ø 1/4" (5-7 mm.), Ø 3/8" (9 - 11 mm.), Ø 3/4" (18 -21 mm.) ; - limit load during compression, not less than 100 MPa .	tons	9.20

	<p>Adapter. For pump-compressor pipes. The outer diameter of the adapter is not greater than the outer diameter of the coupling with a larger diameter. Adapters for tubing. Coupling Ø 114.3x9.65x. Nipple Ø 88.9x7.34. Strength group P-110 tubing that is screwed to the adapter. The inner diameters of the adapter are equal to the inner diameters of the tubing that is screwed to the adapter. The presence of a smooth transition between the difference in internal diameters in the adapter. The length of the adapter is not more than 0.5 m. According to the requirements of API specification 5CT (tenth edition, June 2018) or equivalent, the level of requirements is not lower than PCL-2, with a highly hermetic threaded connection (the test level is not lower than CAL II according to ISO 13679: 2002 or newer versions with a tensile strength of not less than 100% of the strength of the pipe body).The threaded connections of the adapter must be similar to the threaded connections of the tubing that is screwed to this adapter and provide a highly hermetic connection between the adapter and the tubing</p>	piece 4.00
	<p>Adapter. For pump-compressor pipes. The outer diameter of the adapter is not greater than the outer diameter of the coupling with a larger diameter. Adapters for tubing. Coupling Ø 88.9x7.34 x Nipple Ø73.02x5.52 of strength group P-110. Tubing that is screwed to the adapter. The inner diameters of the adapter are equal to the inner diameters of the tubing that is screwed to the adapter. The presence of a smooth transition between the difference in internal diameters in the adapter. The length of the adapter is not more than 0.5 m. According to the requirements of API specification 5CT (tenth edition, June 2018) or equivalent, the level of requirements is not lower than PCL-2, with a highly hermetic threaded connection (the test level is not lower than CAL II according to ISO 13679: 2002 or newer versions with a tensile strength of not less than 100% of the strength of the pipe body).The threaded connections of the adapter must be similar to the threaded connections of the tubing that is screwed to this adapter and provide a highly hermetic connection between the adapter and the tubing</p>	piece 4.00
	<p>Operational hydraulic packer. Fitting nipple. Magnum disk (differential adapter). Circulation coupling. Tubing disconnecter.. 1) 7" (177.8mm), #29.0-32.0 (10.36-11.51mm), 10000psi, 177C (2-3/8" or 2-7/8" Premium with x -overs to UGV pipe); 2) 7" (177.8mm), #32.0-38.0 (11.51-13.72mm), 10000psi, 177C (2-3/8" or 2-7/8" Premium with x-overs to UGV pipe) ; 3) 7" (177.8mm), #32.0-38.0 (11.51-13.72mm), 15000psi, 177C (2-3/8" or 2-7/8" Premium with x-overs to UGV pipe) ; 4) 6-5/8" (168.3mm), #17.0-32.0 (6.22-12.07mm), 10000psi, 177C (2-3/8" or 2-7/8" Premium with x-overs to UGV pipe); 5) 5-1/2" (139.7mm), #17.0-23.0 (7.72-10.54mm), 8000-10000psi, 177C (2-3/8" Premium with x-overs to UGV pipe); 6) 5-1/2" (139.7mm), #17.0-23.0 (7.72-10.54mm), 8000-10000psi, 177C (1.9" Premium with x-overs to UGV pipe); 7) 4-1/2" (114.3mm), #15.1 (8.56mm), 7500-10000psi, 177C (1.9" Premium with x-overs to UGV pipe)</p>	kit 6.00
Other materials TOTAL:		23.20
Other liquids	Silica gel. Sorbead WS, Sorbead R or their analogues.	tons 14.00

Other liquids TOTAL: 14.00

Control cable	Cable KVVGeng 10x1.5	km	1.00
	Cable KVVGeng 14x1.5	km	1.00
	Cable KVVGeng 4x2.5	km	1.00
	KVVGeng cable 7x2.5	km	2.00
	Control cable 12x1.5	km	2.00
	Control cable 24x1.5	km	2.00
	Control cable 4x1.5	km	0.72
	Control cable 7x1.5	km	0.98
	Control cable KVVG 10x1.5 mm ²	km	5.00
	Control cable KVVGE 10x2.5	km	4.00
	Control cable KVVGE 14x2.5	km	4.00
	Control cable KVVGE 19x2.5	km	4.00
	Control cable KVVGE 4x2.5	km	4.00
	Control cable KVVGE 4x6	km	4.00
	Control cable KVVGE 7x2.5	km	4.00
	Control cable KVVGE(NG) 10x4.0	km	5.00
	Control cable KVVGE(NGD)-FR 10x2.5 OШK	km	5.00
	RG-8 cable	km	0.09
	Control cable KVVG(NG) 7x4.0	km	10.00
	Control cable 6x1.5	km	2.00

Control cable TOTAL: 61.79

Power cable < 0.4 kV	AVVG cable 2x6 mm	km	2.94
	AVVG cable 4x120 1 kV	km	1.00
	AVVG cable 4x6 mm	km	1.50
	VVG cable 2x2.5	km	0.50

Power cable < 0.4 kV TOTAL: 5.93

Power cable 0.4-1 kV	Power cable AVVG 1 4x120	km	2.00
	Power cable AVVG 1 4x50	km	2.00
	Power cable AVVG 1 4x70	km	1.00

Power cable 0.4-1 kV TOTAL:			5.00
Power cable 6-35 kV	Cable XRUHAKS 20/35 kV 120 mm	km	0.60
	Cable XRUHAKS 20/35 kV 150 mm	km	0.60
	Cable XRUHAKS 20/35 kV 240 mm	km	0.60
	Cable XRUHAKS 35 Kv 1*50 RMC 150	km	0.60
	Cable AABI-10 3x240	km	6.00
	AABI power cable 3x120 10 kV	km	2.00
	AABI power cable 3x70 10 kV	km	2.00
	Power cable AABI-10 3x95	km	2.70
	Power cable with sewn polyethylene insulation with a voltage of 20 kV 1x240 A	km	10.00
	Cable ABБ6ШВ 4x150-1	km	1.00
	Cable AABI-10 3x185	km	0.80
	ASBI 3x120 high-voltage power cable	km	8.00
	ASBI 3x240 high-voltage power cable	km	6.00
	Power cable with sewn polyethylene insulation with a voltage of 10 kV 1x120 A	km	10.00
	Service cable line (based on AXCES12/20(24)kV-3x70/16 cable or analog)	kit	1.00
	Power cable with cross-linked polyethylene insulation of medium voltage, with longitudinal and radial insulation 1x120RMC/50 8.7/15 (17.5) kV	m	300.00
	Power cable with cross-linked polyethylene insulation of medium voltage, with longitudinal and radial insulation 1x240RMC/50 8.7/15 (17.5) kV	m	300.00
	Power cable with cross-linked polyethylene insulation of medium voltage, with longitudinal and radial insulation 1x50RMC/16 8.7/15 (17.5) kV	m	300.00
	Power cable with cross-linked low voltage polyethylene insulation, with longitudinal and radial insulation 4x120	m	300.00
Power cable 6-35 kV TOTAL:			1251.90
Arc extinguishing cameras	Arc extinguishing chamber DGK-10 TM-320/10	piece	1.00
	Arc extinguishing chamber DGK-35 RZDSOM-620/35 U1	piece	1.00
Arc extinguishing chambers TOTAL:			2.00

Complete distribution device (KRP)	Krun-10 for 12 cells in a set: with two transformers of own needs 10 kV-2 pcs.; 10 kV voltage transformers - 2 units, vacuum switches 10 kV - 7 units (2 input, 1 sectional and 4 linear).	piece	1.00
	Distributing device KRUV-6 DVMP-OV-UHL5	piece	2.00
	Complete distribution device of external arrangement 10kV	piece	1.00
	10 kV distribution device as a whole	piece	1.00
	Complete distribution device KRPZ-10 U1 (building with insulation, equipped with ventilation and a heating system of 16 cells)	piece	3.00
	A complete two-transformer substation for a voltage of 10kV/0.4kV of the pass-through type with HV cable inputs and LV cable output with a capacity of tr-ra up to 630kVA, with overload switches on the HV side and automatic switches or circuit breakers with fuses on the 0.4kV side (for 6 lines on each section), complete with power transformers type TMG 630kVA 10kV/0.4kV	piece	8.00
	KRPZ-10 kV	kit	1.00

Complete switchgear TOTAL: 17.00

Components for computer equipment	Monitor Dell U24 12M	piece	1.00
Components for computer equipment TOTAL:			1.00

Compressors (other)	Air compressors complete with a drying unit.	piece	23.00
	Small-sized repressurizing compressor stations.	piece	2.00
	Screw compressor. Maximum working pressure, not less than 10 bar;	piece	1.00
	Doser block box for a low-pressure compressor. For a gas motor compressor with parameters: inlet pressure - 2 atm, outlet pressure - 25 atm, 2000 kW, pumping volume - 400 thousand cubic meters/day	piece	1.00

Compressors (other) TOTAL: 27.00

Computers and laptops	Dell Optiplex 7020 Computer (Desktop)	piece	2.00
	Monitor Dell U24 12M	piece	1.00
	Laptop	piece	55.00
	Laptop DELL Latitude E7270 (RS2226)	piece	1.00
	Laptop DELL Latitude 7390 (RS2573)	piece	1.00
	Laptop DELL Latitude E7470 (PC2160)	piece	1.00
	Computer Impression P+410	piece	1.00

	Monitor ACER D24Y	piece	1.00
	Notebook DELL Latitude E6520	piece	1.00
	Notebook Dell Latitude E6530	piece	2.00
	Computer Dell OptiPlex 9020 MT	piece	10.00
	Monitor AOC LCD 27"	piece	1.00
	Notebook HP ELITEBOOK 840 G4 (X3V02AV)	piece	2.00
	Notebook HP ELITEBOOK 840 G5 (2FA64AV)	piece	2.00
	Notebook Dell Latitude 7480	piece	4.00
	Notebook Dell Latitude E7450	piece	1.00
	Notebook Dell Latitude E7470	piece	2.00
	Notebook DELL Latitude 5289	piece	2.00
	Notebook DELL Latitude 7390	piece	1.00
Computers and laptops TOTAL:			91.00

Communication capacitors	Communication capacitor SMP-110/v3-0.0064	piece	3.00
	Communication capacitor SMP-166/v3-0.014	piece	3.00
	Communication capacitor 110 kV	piece	6.00
	Communication capacitor SMP-166v3-0.014 330 kV	piece	2.00
	Communication capacitor 3CMP -110/v3 2100F (air line 238)	piece	1.00
Communication capacitors TOTAL:			15.00

Counters	Electric electricity meter type SL761W081	piece	1.00
	GAMA G1Y.163 single-phase electric energy meter	piece	1600.00
	Three-phase direct-on electric energy meter of the GAMA 300 G3B 144 type	piece	400.00
	Electric energy meter three-phase direct inclusion type ACE6000	piece	20.00
	Electric energy meter three-phase transformer inclusion type ACE6000	piece	20.00
	Counters MTX 1G10.DH.2L2-DOG4	piece	5874.00
	Counters MTX 3G20.DD.3M1-DOG4	piece	175.00
	Counters MTX 3G30.DK.4L1-DOG4	piece	2995.00
	Counter E/EN SL7000 CL0,5S 57V 5/6A	piece	7.00
	Counter E/EN SL7000 CL0,2S 57V 1A	piece	3.00
TOTAL counters:			11095.00

Steel materials	Corner steel 40x40x4	tons	2.00
	Sheet steel St3ps, 3 mm thick, size 3x1250x2500 mm	tons	0.22
	Sheet steel St3ps, 4 mm thick, size 4x1500x3000 mm	tons	0.28
	Strip steel 40x4	tons	6.00
	Channel No. 12	tons	12.00
	Channel No. 16	tons	12.00
	Armature F 16.0 mm.	tons	12.00
	Angle steel 63x63x5	tons	12.00
	Round steel with a diameter of 22 mm	tons	5.00
	Corner steel 50x50x4	tons	5.00
	Wire rod 6.5	tons	5.00
	Round steel with a diameter of 10 mm	tons	4.00
Steel materials TOTAL:			75.50
Network equipment	Network storage. NAS QNAP or similar	piece	30.00
	Mobile communication repeaters and amplifiers. Mobile communication repeaters and amplifiers	kit	10.00
Network equipment TOTAL:			40.00
Mechanisms are special	Compressor station mobile PKSD - 5.25	piece	1.00
	Wire and cable tensioning machine "ARS608"	piece	1.00
	The machine is reversible	piece	1.00
	Branch shredder AM-120BD MAX	piece	3.00
Mechanisms special TOTAL:			6.00
Mobile premises	A modular house of the container type. 380 V; The overall dimensions are 6.04*2.46*2.6 m.	piece	140.00
	Frame hangar. For storage: 12mx24mx4m	piece	1.00
	Block box. Dispatching compressor station, control room of complex gas preparation installation, placement of small-sized compressor station.	piece	3.00
Mobile premises TOTAL:			144.00
Couplings	Coupling 35 kV POLT 42E/1*0-L12 (120*240)	kit	4.00
	Coupling 35 kV GUSJ-42/120-240-3HL	kit	4.00
	Coupling 35 kV TRAJ-42/1*120-240-3HL	kit	4.00

Coupling POLJ 24/1*120-240	kit	45.00
Clutch POLT 24D/1XI-L12B	kit	15.00
Coupling Stp 10 (70-120)	piece	30.00
Connecting clutch STP-1 (70/120)	piece	15.00
Cable coupling 10 STP-M8 70x120	kit	120.00
Cable connecting coupling 10STP-8 70/120 10 kV	kit	600.00
Cable connecting coupling 4STP-1 35/5 0.4 kV	kit	100.00
Cable terminal coupling 10KNTP-8 70/120 10 kV	kit	50.00
Cable terminal coupling 4KNTP-1 35/50 0.4 kV	kit	200.00
Cable terminal coupling 4KNTP-1 70/120 10 kV	kit	50.00
Cable coupling KNTP 70-120	kit	30.00
End coupling 10KWpN (3/70-120)	piece	20.00
Universal coupling, 2 cable entries, 1 splice cassette, 12 splice protectors	kit	30.00
Cable connecting couplings 4STP-1 (70/120) 0.4 kV	kit	100.00
Cable connecting coupling 10STP-9 150/240 10 kV	kit	500.00
Hot shrink coupling	kit	10.00
Adapter	kit	10.00
Coupling connecting 6-10 kV	kit	38.00
Final coupling 6-10 kV	kit	20.00
Cable connector 3x70-120 mm. sq. 10 kV	kit	400.00
Cable connector 3x150-240 mm. sq. 10 kV	kit	120.00
Cable terminal coupling 185-400 mm sq. 10 kV	kit	60.00
Cable terminal coupling 500-630 mm sq. 35 kV external installation	kit	20.00
Cable terminal coupling 500-630 mm sq. 35 kV	kit	60.00
Cable terminal coupling 3x 150-240 mm. sq. 10 kV internal installation	kit	20.00
Single-core connector for all types of polymer single-core cables with a voltage of 24 kV 50-150	piece	12.00
Single-core connector for all types of polymer single-core cables with a voltage of 24 kV 90-240	piece	12.00
Single-core terminal coupling for external installation for all types of polymer single-core cables with a voltage of 24 kV 50-150	piece	36.00
Single-core terminal coupling for external installation for all types of polymer single-core cables with a voltage of 24 kV 95-240	piece	36.00
Cable terminal coupling 3x 70-120 mm. sq. 10 kV internal installation	kit	30.00
Cable terminal coupling 185-400 mm. sq., 10 kV internal installation	kit	60.00

	Four-wire connector for cables with plastic insulation and armor up to 1 kV 70-120	piece	12.00
Clutches TOTAL:			2873.00
Aluminum tips	Cable tip aluminum F 120 mm	piece	200.00
	Cable tip aluminum F 150 mm	piece	200.00
	Cable tip aluminum F 16 mm	piece	1800.00
	Cable tip aluminum F 185 mm	piece	100.00
	Cable tip aluminum F 240 mm	piece	100.00
	Cable tip aluminum F 25 mm	piece	1000.00
	Cable tip aluminum F 35 mm	piece	2000.00
	Cable tip aluminum F 50 mm	piece	2000.00
	Cable tip aluminum F 70 mm	piece	1800.00
	Cable tip aluminum F 95 mm	piece	800.00
Aluminum tips TOTAL:			10000.00
Tips are copper	Copper cable tip F 120 mm	piece	40.00
	Copper cable tip F 16 mm	piece	120.00
	Copper cable tip F 25 mm	piece	120.00
	Copper cable tip Φ 35 mm	piece	120.00
	Tip cable copper F 50 mm	piece	120.00
Copper tips TOTAL:			520.00
Pumps for various purposes	Submersible pump Stanley TPV16	piece	1.00
	The machine is vacuum. KO-503 V-56 on a 6x6 car chassis (Analogues: Mercedes-Benz Actros 3 3341 A; or MAN 6x6; or IVECO 6x6), V = 11 ÷ 12 m ³	piece	3.00
	Pump. ECV 5-6.5-80: Casing pipe diameter 5 "(125 mm), Productivity, m ³ / h 6.5, Water pressure, m 80,	kit	2.00
Pumps for various purposes TOTAL:			6.00
Equipment for extraction of hydrocarbon products	Heat exchanger for heating. Heat exchanger for heating	piece	2.00
Equipment for extraction of hydrocarbon products TOTAL:			2.00

Equipment for fiber-optic communication lines	Adapter "SC/SC SM Simplex"	piece	50.00
	Sleeves for welding optical cable	pack	20.00
		piece	1000.00
	Coupling connecting for VOLZ	kit	30.00
	A set of colored pigtails SC / UPC 1.5 m	kit	10.00
	Optical box "Sofetek FTB P01"	piece	30.00
	Optical connecting cord (patch cord) SC/UPC – SC/UPC OцПс-1A1(1x1)-1.0 200m	piece	10.00
Equipment for fiber-optic communication lines TOTAL:			1150.00
Equipment for the processing of hydrocarbon products	Installation of deep extraction of hydrocarbons from natural gas. Raw material capacity: 12 million m3/day; inlet pressure: 5.5 Mpa; Extraction rate: 99%+	piece	1.00
	Installation of deep extraction of hydrocarbons from natural gas. Raw material capacity: 2.5 million m3/day; Extraction rate: 99%	piece	1.00
	Installation of isomerization of C5/C6 hydrocarbons and hydrotreating unit. Isomerization block up to 150 thousand tons/year; Hydro-treatment unit up to 100,000 tons/year	piece	1.00
	Gas drying unit (propane freezing unit). Technical characteristics: PN55, working pressure - 12 atm, volume - 1500 tcm/day.	piece	1.00
Equipment for the processing of hydrocarbon products TOTAL:			4.00
Equipment for solar power plants	Network inverter Fronius SYMO 20.0-3-M or similar	piece	5.00
	Solar panel SOLA S132/M12H/660W or similar	piece	140.00
	Photoelectric module type JAP6(K)-60-270/4BB manufactured by Shanghai JA Solar Technology Co.,Ltd	piece	13000.00
	A pair of solar panels 2x385 W	piece	27.00
Equipment for solar power plants TOTAL:			13172.00
Surge limiters	Surge limiter 10/12.7/10/600 10 kV	piece	300.00
	Surge limiter 10/12/10/550 UHL-1 10 KV	piece	300.00
	Surge limiter 110 kV	set of 3 phases	20.00

Surge limiter 150 kV	set of 3 phases	14.00
Surge limiter 150 kV	piece	21.00
Surge limiter 220 kV	set of 3 phases	8.00
Surge limiter 330 kV	set of 3 phases	6.00
Surge limiter 35 kV	set of 3 phases	6.00
Surge limiter 35/40.5/10/550-03 35 kV	piece	150.00
Surge limiter 6 kV	set of 3 phases	3.00
Surge limiter 6/8 10/550-04 UHL-2 6 kV	piece	300.00
Surge limiter 750 kV	set of 3 phases	2.00
Surge limiter VR/TEL-35/40.5 UHL-1 35 kV	piece	120.00
Overvoltage limiter OPN-RT-TEL-10/11.5 UHL2	piece	300.00
Overvoltage limiter 10 kV OPNp-10	piece	6.00
Surge limiter 150 kV PVA2-170	piece	6.00
Surge limiter 20 kV	piece	60.00
Surge limiter PEXLIM R138-YH170	piece	3.00
Surge limiter OPNp-110/78/500	piece	6.00
Surge limiter OPNp-330/220/20/4	piece	6.00
Overvoltage limiters of 330kV autotransformer 6AT type ОПНп-330/220/10/1000-II-UHL1 "Positron" or 3P7SR288 L2E2M7 "Tyco (Raychem)" or ЗЕР2 276 2РФ33-1 "SIEMENS" or ЕХЛИМ Р276 "ABB"	piece	3.00
Overvoltage limiters of 330kV autotransformer 1AT type OPNp-330/220/10/1000-II-UHL1 "Positron" or ZR7SR288 L2E2M7 "Tyco (Raychem)" or ZER2 276 2РФ33-1 "SIEMENS" or ЕХЛИМ Р276 "ABB"	piece	3.00
Overvoltage limiters of 220kV secondary transformer 1AT-B type OPNp-220/156/10/850-III-УХЛ1 "Positron" or 3P5SR198 22E2M7 "Tyco (Raychem)" or ЗЕЛ2 198-2хЛ 22 "SIEMENS" or ЕХЛИМ Q198 ABB	piece	3.00
Overvoltage limiter OPNp-110/56/10/500 with trip recorder	piece	20.00
Overvoltage limiter OPNp-35/40.5/10/500 UHL1	piece	30.00
Overvoltage limiter OPNp-110/78/10-500 UHL1	piece	30.00
Overvoltage limiter 10 kV OPNp-10/11.5/10/550 UHL1	piece	90.00
Overvoltage limiter 10 kV OPNp-10/11.5/10/550 UHL2	piece	90.00
Overvoltage limiter 6 kV OPNp-6/7.2/10/550 UHL2	piece	90.00
OPN with piercing clamp	piece	300.00
Surge limiter 35 kV	piece	21.00
Surge limiter 150 kV	piece	6.00
Overvoltage limiter (OPN) 10 kV power transformer	piece	12.00

	Overvoltage limiter (OPN) 110 kV power transformer	piece	18.00
	Overvoltage limiter (OPN) 110 kV neutral of the power transformer	piece	2.00
	Surge limiter 3EL2-288-3PM42-4NA Siemens 330 kV	set of 3 phases	25.00
	Surge limiter 35 kV (Ur - 37.5 kV; Line discharge class - 2)	set of 3 phases	11.00
	Surge arrester 3EL2 192-2PQ32-4XE1 Siemens 330 kV	set of 3 phases	35.00
	Overvoltage limiters of 35kV autotransformer 6AT type ZEL2 054-2XF21 SIEMENS or ОПНн-35/42/ 10/850-III-УХЛ1 "Positron" or РОЛИМ-И 42 ABB	piece	3.00
	Surge limiter 10 kV (Ur - 10 kV; Line discharge class - 2)	set of 3 phases	7.00
	Surge limiter 10 kV (Ur - 12 kV; Line discharge class - 2)	set of 3 phases	3.00
	Surge limiter 10 kV (Ur - 15 kV; Line discharge class - 2)	set of 3 phases	2.00
	Surge arresters 15.75 kV 3EL2 0152PC31-XE	set of 3 phases	1.00
Surge limiters TOTAL:			2442.00
Automotive oils	Automotive oil "10W-40"	tons	2.00
	Automotive oil "15W-40"	tons	3.00
	Automotive oil M10G2K	tons	5.00
Automotive oils TOTAL:			10.00
Transformer oils	Transformer oil	tons	5.00
	Transformer oil T-1500	tons	280.00
	Transformer oil T-1500	tons	20.00
Transformer oils TOTAL:			305.00
The supports are wooden	Wooden riser (pine) impregnated L-7.5 M	piece	120.00
Wooden supports TOTAL:			120.00
Reinforced concrete supports	Reinforced concrete support SV-10.5-3.6	piece	2000.00
	Reinforced concrete support SV-10.5-5	piece	3000.00
	Reinforced concrete support SV-10.5-5.0	piece	116.00
	Reinforced concrete support SV-164	piece	5.00
	Reinforced concrete support SV-9.5-2.0	piece	184.00
	Reinforced concrete support SK-22.1-2.1	piece	32.00
	SK-22.2 reinforced concrete support	piece	48.00

	Reinforced concrete support SK-22.2-1.1	piece	36.00
	Reinforced concrete support SK-26.1-1.0	piece	2.00
	Reinforced concrete support SK-26.1-1.1	piece	32.00
	Reinforced concrete support SV-9.5-2.0	piece	4000.00
	Support SV-9.5-2	piece	408.00
	Reinforced concrete risers CV-164 -10.7-1	piece	120.00
	Stand SV 105-5	piece	57.00
	SK-22 reinforced concrete riser	piece	8.00
Reinforced concrete supports TOTAL:			10048.00

Other supports	Metal structure for support PB110-15	piece	3.00
	Metal structure for support PB110-8	piece	2.00
	Metal structure for support PB-35-1B	piece	5.00
	Vibrated reinforced concrete racks CB-95-2	piece	91.00
	Vibrated reinforced concrete racks CB-105-3,6	piece	47.00
Other supports TOTAL:			148.00

Metal supports	Metal support type U-110-2+14	piece	1.00
	Metal support 35kV	piece	2.00
Metal supports TOTAL:			3.00

Lighting devices	Battery lights (group)	piece	500.00
	Rechargeable flashlights (pocket)	piece	500.00
	Lighting mast Trime X-Eco K2, LED, 230 V, 3.5 kVA diesel engine on wheels	piece	1.00
	Lantern. Manual, rechargeable, explosion-proof	piece	800.00
	Lantern. Type: manual, lamp type: LED, light range: 260 m, luminous flux at least: 325 Lm, power at least: 5W; SCOUT LED 5W 325Lm 15 h. Violux, or similar	piece	10.00
Lighting devices TOTAL:			1811.00

Software for radio communication	Software for creating a digital duplicate of Siemens Sincal power networks	piece	1.00
SOFTWARE for radio communication TOTAL:			1.00

Hydraulic presses	Hydraulic press Pressing tips 16-400 mm ² IEK	piece	2.00
Hydraulic presses TOTAL:			2.00
Car trailers	Car platform. Suspension: - two-axle, pneumatic. - permissible axle load of at least 6000 kg; The total length is not more than 8120 mm - The length of the spar is 6000 mm - The height is not more than 1320 mm - The bodywork is single-pitched - The clearance is not less than 320 mm;	piece	4.00
Car trailers TOTAL:			4.00
The wire is insulated	Wire AsXSn 2x16	km	1.00
	Wire AsXSn 4x16	km	1.00
	Wire AsXSn 4x35	km	1.00
	Wire AsXSn 4x50	km	1.00
	Wire ASxSn 4x50	km	5.00
	PV-1 1x1.5 electrical wire	km	5.00
	Electrical wire PV-1 1x2.5	km	5.00
	PVA electrical wire 4x2.5	km	0.50
	The wire is insulated with AsXSn 4x35	km	3.00
	The wire is insulated with AsXSn 4x50	km	4.00
	The wire is insulated with AsXSn 4x70	km	2.00
	SIP wire 2x16	km	4.00
	SIP wire 4x16	km	3.00
	SIP wire 4x35	km	2.00
	SIP wire 4x95	km	12.00
	SIP wire 5ng 2x16	km	36.00
	SIP wire 5ng 4x120	km	2.00
	SIP wire 5ng 4x16	km	16.00
	SIP wire 5ng 4x25	km	6.00
	SIP wire 5ng 4x35	km	26.00
	SIP wire 5ng 4x50	km	106.00
	SIP wire 5ng 4x70	km	46.00
	SIP wire 5ng 4x95	km	11.00
Wire SIP-3 1x50	km	6.00	

	SIP-4 4x50	km	1.00
	SIP-4 4x70	km	1.00
	SIP wire 4x120	km	6.00
	High-voltage cable. ASBI -10 kV, 3x96	m	250.00
The wire is insulated TOTAL:			562.50
The wire is not insulated	Wire A-50	tons	11.00
	AC-120 wire	tons	1.95
	AC-120/19 wire	tons	0.14
	Wire AC-300/39	tons	0.17
	WIRE AS-35/6,2	tons	6.00
	AC-50 wire	tons	2.50
	A-35 uninsulated wire	tons	9.50
	The wire is not insulated A-50	tons	43.20
	A-70 uninsulated wire	tons	1.00
	The wire is not insulated AS 35/6.2	tons	3.60
	The wire is not insulated AC 50/8	tons	4.00
	The wire is not insulated AC 70/110	tons	16.60
	The wire is not insulated AS-120/19	tons	38.70
	The wire is not insulated AS-120/27	tons	5.28
	The wire is not insulated AS-150/19	tons	1.00
	AC-150/24 uninsulated wire	tons	17.97
	The wire is not insulated AS-185/24	tons	1.00
	The wire is not insulated AS-185/29	tons	21.84
	The wire is not insulated AS-240/32	tons	1.00
	The wire is not insulated AS-240/39	tons	5.00
	AC-300 uninsulated wire	tons	2.26
	Non-insulated wire AS-300/39	tons	10.60
	The wire is not insulated AS-35	tons	11.97
	The wire is not insulated AS-50	tons	49.00
	Non-insulated wire AS-500/336	tons	15.00
	The wire is not insulated AS-95/16	tons	54.50
	Tires, 2xACO-600	km	0.12

			85
	Tying, AS-400	km	0.12
	Tying, 2*ACO-500	km	0.12
	Tying, AS-300	km	0.12
The wire is not insulated TOTAL:			335.27
Food	Dry food (daily set of dry products)	pack	9000.00
Food TOTAL:			9000.00
Electromagnetic starters	Electromagnetic starter type SN2 (660/1140V, 50Hz, rated current 800A (2x400A) degree of protection IP 54)	piece	2.00
	PVID-315 starter	piece	2.00
Electromagnetic starters TOTAL:			4.00
Reactors	Arc extinguishing coil (reactor) 10 kV plunger type ASC1.0P 840kVA/10kV/15-145A/ZN/DB-24h with liquid dielectric, shunt resistance and regulator REG-DPA	piece	4.00
	Reactor 35 kV SH-235/9/315/200 (Snom - 20,000 kVA; Unom - 38.5 kV; Inom - 300A)	piece	8.00
	35 kV ROM-35 reactor (Snom - 4000 kVA; Unom - 35 kV; Inom - 90 A; type ROM-35-90-15 UHL 1)	piece	3.00
Reactors TOTAL:			15.00
Reclosers	Vacuum recloser 20 kV	piece	30.00
	Vacuum reclosers 35 kV	piece	32.00
	Reclosers 10 kV	piece	12.00
	Recloser 15.5 kV; 800 A	piece	15.00
Reclosers TOTAL:			89.00
Cooling liquids	Antifreeze coolant	tons	2.22
	Antifreeze coolant	tons	2.00
Cooling liquids TOTAL:			4.22
Disconnectors	Disconnecter SDF 362/2000/E1	piece	3.00
	Disconnecter 110 kV	piece	6.00
	Disconnecter 110 kV/ 3150 A with two earthing blades	set of 3 phases	19.00
	Disconnecter 150 kV	piece	22.00

Disconnecter 150 kV GW-55	piece	8.00
Disconnecter 330 kV	piece	2.00
330 kV single-pole disconnector with two earthing devices RG2-330.P/3150 UHL-1 with PD-14 drive	piece	21.00
Disconnecter 35 kV	piece	109.00
Disconnecter 35 kV 3EK4; DTS 40	piece	8.00
Disconnecter GW55 -126DI HITACHI-ABBS2DAT-126 Alstom GE 110 kV with one earthing knife	set of 3 phases	10.00
Disconnecter GW55 -126DII HITACHI-ABB S2DA2T-126 Alstom GE 110/ 2000A kV with two grounding knives	set of 3 phases	16.00
Single-pole disconnector 10 kV	piece	1.00
Disconnecter RLND 10/400 complete with PR drive and rod	piece	50.00
Disconnecter RLND-10/400	piece	70.00
Disconnecter RLNDz -10/400 U1	piece	10.00
Disconnecter RLNDz -10/630 U1	piece	10.00
Disconnecter RNDZ-110/1000 U1 DTS 126	piece	8.00
Disconnecter 10 kV P10-AT-1. RNDZ-2-35/2000, 35 kV, 2000A	piece	2.00
Disconnecter 110 kV type RND-110/1000	piece	1.00
Disconnecter 110 kV type RNDZ-1-110/2000	piece	1.00
Disconnecter 110 kV type RNDZ-2-110/1000	piece	3.00
Disconnecter 35 kV type RNDZ-1B-35/1000	piece	4.00
Disconnecter 35 kV	piece	30.00
Disconnecter ZON type RND-35/600	piece	1.00
Disconnecter 110 kV type RLND-110/2000	piece	1.00
Disconnecter 110 kV type RLND-2-110/600	piece	1.00
Disconnecter RIND-10/630	piece	6.00
Disconnecter RIND-10/400	piece	3.00
Disconnecter RV-10/630	piece	6.00
Disconnecter RV-10/400	piece	2.00
Disconnecter RVz-10/630	piece	1.00
Disconnecter DTS 40.5.1000.S.II with RSM-1 35 kV drive	piece	20.00
Disconnecter DTS 40.5.1000.V.II with RSM-1 35 kV drive	piece	20.00
Disconnecter DTS 40.5.1000.A.II with RSM-1 35 kV drive	piece	20.00
Three-pole disconnector 110 kV with 1 set of grounding knives type GW4-126D/1600	piece	4.00
Three-pole disconnector 110 kV with 2 sets of grounding knives type GW4-126DD/160	piece	6.00

	Disconnecter S2DAT-170 Alstom GE GW55-170DI HITACHI-ABB 150 kV with one grounding blade, 3150A	set of 3 phases	1.00
	Disconnecter GW-57-363DI HITACHI-ABB S2DAT-362 Alstom GE SPOLT-362 Alstom GE 330 kV with one grounding knife, 3150A	set of 3 phases	9.00
	Disconnecter GW-57-363DII HITACHI-ABB S2DA2T-362 Alstom GE SPOL2T-362 Alstom GE 330 kV with two earthing knives, 3150 A	set of 3 phases	24.00
	Disconnecter S2DAT GE (ALSTOM) 220 kV with one grounding, 2000A	set of 3 phases	8.00
	Disconnecter GW55 -72.5DI HITACHI-ABB S2DAT-72.5 Alstom GE 35 kV with two earthing blades, 3150A	set of 3 phases	1.00
	Disconnecter S2DA2T-245 Alstom GE ONI-245 Siemens 220 kV with two grounding knives, 2000 A	set of 3 phases	13.00
	Disconnecter GW55 -72.5DII HITACHI-ABB S2DA2T-72.5 Alstom GE 35 kV with two grounding knives, 2000 A	set of 3 phases	16.00
	Disconnecter Z BF12-800+1AE R RUHRTAL 750 kV with one earthing knife, 3150 A	set of 3 phases	3.00
	Disconnecter 10 kV type RV-10/400	piece	1.00
	RNDZ-2-35/600 type disconnector	piece	1.00
	Three-pole disconnector 110 kV with 2 sets of grounding knives type GW55-126DII, 1600A, 40kA/3s	piece	2.00
	Three-pole disconnector 110 kV with 1 grounding knife type GW55-126D, 1600A, 40kA/3s	piece	4.00
	Disconnecter GW55 -72.5DII HITACHI-ABB S2DA2T-72.5 Alstom GE 35 kV with two grounding blades, 1000A	set of 3 phases	4.00
Disconnectors TOTAL:			592.00

Dischargers	Arrester 10 kV 280140 AZBD 150; MVK12	piece	6.00
	Arrester 110 kV 3EL5; PEXLIM Q108-XH145	piece	6.00
	Arrester 35 kV OCP2-41M-NFF; MVK41	piece	3.00
	Arrester 35+15 kV PCA3E-72L21E2M4-100-5; PEXLIM Q072-YN123	piece	2.00
	Arrester RVO-10	piece	90.00
	Valve arrester RVO-10 U1 Voltage 10 kV nominal voltage 12.7 kV	piece	600.00
	Arrester RVO-6	piece	90.00
Chargers TOTAL:			797.00

Breakers	Breaker VR-32/100A	piece	120.00
	Breaker VR-32/250A	piece	200.00
	Breaker VR-32/400A	piece	100.00
	Breaker VR-32/630A	piece	100.00
	Switch RE 19-43	piece	120.00

	Switch RE 19-44	piece	120.00
	Switch RE 19-45	piece	120.00
	Breaker RE19-39	piece	120.00
	Breaker RE19-41	piece	120.00
	Circuit breaker RPS-1 100A	piece	40.00
	Circuit breaker RPS-1 160A	piece	55.00
	Circuit breaker RPS-2 250A	piece	70.00
	RPS-4 400A circuit breaker	piece	45.00
	Breaker RPS-6 630A	piece	10.00
	Circuit breaker RPS-250 A with fuses	piece	200.00
	RPS-400 A circuit breaker with fuses	piece	90.00
	Circuit breaker RPS-630 A with fuses	piece	40.00
Breakers TOTAL:			1670.00
Server equipment	Server PowerEdge R650 2 x Intel Xeon, RAM 16GB (4x4GB) DDR3 EEC Registered	piece	1.00
	Server CPU INTEL/AMD 16/32 RAM 64 GB HDD RAID10 8TB	piece	4.00
Server equipment TOTAL:			5.00
Special equipment (other)	Shcheporlz, ARPAL MK-170TR-B branch shredder for wood chips with hydraulic supply, or similar.	piece	8.00
	Forest mulcher for a tractor with a drive from the tractor power take-off shaft.	piece	1.00
	Mini excavator Hyundai Doosan DX17Z-5	piece	2.00
Special equipment (other) TOTAL:			11.00
Special mixtures	Polyspast	piece	5.00
Special mixes TOTAL:			5.00
traverses	Traverse 35 kV	kit	92.00
	Traverse TM 1	kit	900.00
	Traverse TM 3	kit	500.00
	Traverse TM 6	kit	20.00
	Traversa TN - 12u	kit	900.00
	Traverse TN - 2	kit	400.00
	Traverse 110 kV	kit	64.00

Travers TOTAL:			2876.00
Tractors	Mulcher based on the HTA-200 tractor. The width of the auger is not less than 2000 mm, d trees up to 120 mm	piece	2.00
	Tractor-based chipper. The width of the trench is up to 150 mm, the depth is up to 1 m	piece	1.00
	Yamobur MRK-750 or analogue, based on all-terrain vehicle, wheel base 6x6. Drilling depth m 4-9, it is possible up to 21 Diameter mm 250-800 Drilling productivity m/h 16 Resource of drill cutters h 8 Drive power kW 49 Working time to the first cap. repair hours 6600	piece	3.00
	Wheeled tractor ArmaTrac 1254 Lux CRD4 125 hp.	piece	2.00
Tractors TOTAL:			8.00
Block transformers	Block transformer TC-250000/330.	piece	1.00
Block transformers TOTAL:			1.00
Voltage transformers 110-220 kV	Voltage transformer 110 kV	set 1 phase	6.00
	Voltage transformer 110 kV EMF 123; UTD-123	set 1 phase	6.00
	Voltage transformer 110 kV SVS 145 Trench (Siemens)	set 1 phase	16.00
	Voltage transformer 110 kV NCF-110	set 1 phase	6.00
	Voltage transformer 150 kV EMF-170	set 1 phase	6.00
	Voltage transformer 150 kV SVS 170 Trench (Siemens)	set 1 phase	6.00
	Voltage transformer 150 kV UT-170	piece	6.00
	Voltage transformer 220 kV SVS 245 Trench (Siemens)	set 1 phase	10.00
	Voltage transformer EMF 170 3x winding	piece	3.00
	Voltage transformer EMF-170, Voltage transformer, support metal structure, Voltage transformer 150kV, 100/√3V, Y/Y/Δ 0.2/3P/3P, 2000/1200/1200 VA,	set 1 phase	15.00
	Power transformer TDTN-40000 150/35/6kV	piece	1.00
	Voltage transformer 150 kV	piece	3.00
	TDTN-25000/150-70U1 power transformer	piece	2.00
	Voltage transformer 110kV, 110/√3; 0.1/√3; 0.1/√3; 0.1/√3	piece	9.00
	Voltage transformers for voltage class 110 kV type VEOT	piece	6.00
TDTN-25000/110/10/10 power transformer	piece	1.00	
Voltage transformers 110-220 kV TOTAL:			102.00

Voltage transformers of 330 kV and above	Voltage transformer 330 kV SVS 362 Trench (Siemens) TVI 362 TIP 362 HITACHI-ABB TEIMF 362 Trench Siemens	set of 3 phases	10.00
	Voltage transformer NKF-330, 33000/ $\sqrt{3}$, 100/ $\sqrt{3}$, 100	piece	3.00
	Voltage transformer ABB CPA 362, 33000/ $\sqrt{3}$, 100/ $\sqrt{3}$, 100/ $\sqrt{3}$, 100	piece	3.00
Voltage transformers 330 kV and above TOTAL:			16.00

Voltage transformers 6-35 kV	10 kV voltage transformer	piece	19.00
	20 kV voltage transformer	piece	10.00
	35 kV voltage transformer	piece	3.00
	Voltage transformer 35 kV TJO 7 HITACHI-ABB	set of 3 phases	18.00
	Voltage transformer 35 kV VTO 38; GEF 36	set of 3 phases	3.00
		piece	3.00
	Voltage transformer 35 kV ZNOM-35	set of 3 phases	21.00
		piece	15.00
	Voltage transformer 35kV SSh-35kV 6AT type ZNOM-35	piece	3.00
	Voltage transformer ZNOM 35-65 U1 GEF 36	set of 3 phases	3.00
	Voltage transformer ZNOM-35-65U1	set of 3 phases	3.00
	NAMI-10 voltage transformer	piece	50.00
	NAMI-6 voltage transformer	set of 3 phases	12.00
	10 kV voltage transformers	piece	10.00
	6 kV voltage transformers	piece	15.00
	6 kV voltage transformer	piece	30.00
	Voltage transformer VTO 38	set of 3 phases	15.00
	Voltage transformer 35kV, 35/ $\sqrt{3}$; 0.1/ $\sqrt{3}$; 0.1/ $\sqrt{3}$; 0.1/ $\sqrt{3}$ 0.5/0.2/3P	piece	6.00
	Voltage transformers 10 kV anti-resonance	piece	5.00
	Voltage transformer TN-6 kV, NTMY-6	set 1 phase	1.00
Voltage transformer TN-10 kV	set 1 phase	1.00	
Voltage transformers 6-35 kV TOTAL:			246.00

Power transformers 10-40 kV	Power transformer 20/0.4 kV, 25 kVA	piece	10.00
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Power transformer 20/0.4 kV, 40 kVA	piece	20.00
Power transformer 20/10 kV, 1 MVA	piece	2.00
Power transformer 20/10 kV, 2.5 MVA	piece	1.00
Power transformer 20/10 kV, 630 kVA	piece	2.00
Transformer 4000 kVA 15/6 kV	piece	1.00
Power transformer 10(6)/0.4 kV with a capacity of 100 kVA	piece	15.00
Power transformer 10(6)/0.4 kV with a capacity of 1000 kVA	piece	4.00
Power transformer 10(6)/0.4 kV with a capacity of 160 kVA	piece	15.00
Power transformer 10(6)/0.4 kV with a capacity of 250 kVA	piece	15.00
Power transformer 10(6)/0.4 kV with a capacity of 400 kVA	piece	15.00
Power transformer 10(6)/0.4 kV with a capacity of 63 kVA	piece	10.00
Power transformer 10(6)/0.4 kV with a capacity of 630 kVA	piece	10.00
Power transformer 35/10kV 1.6MVA	piece	1.00
Power transformer 35/10kV 10MVA	piece	6.00
Power transformer 35/10kV 16MVA	piece	4.00
Power transformer 35/10kV 2.5MVA	piece	8.00
Power transformer 35/10kV 4MVA	piece	3.00
Power transformer 35/10kV 6.3MVA	piece	7.00
Power transformer 35/6kV 1.6MVA	piece	1.00
Power transformer 35/6kV 4MVA	piece	1.00
Power transformer TM-1000/10 ZTR	piece	4.00
Power transformer TM-630/10/0.4 ZTR	piece	2.00
Power transformer TMG power 400 kVA voltage 10 kV/ 0.4 kV	piece	20.00
Power transformer TMG10/0.4 100 kVA	piece	20.00
Power transformer TMG10/0.4 160 kVA	piece	20.00
Power transformer TMG10/0.4 250 kVA	piece	20.00
Power transformer TMG10/0.4 30 kVA	piece	1.00
Power transformer TMG10/0.4 400 kVA	piece	14.00
Power transformer TMG10/0.4 63 kVA	piece	8.00
Power transformer TMG10/0.4 630 kVA	piece	7.00
Power transformer TMG20/0.4, 100 kVA	piece	75.00
Power transformer TMG20/0.4, 160 kVA	piece	75.00
Power transformer TMG20/0.4, 250 kVA	piece	65.00

	Power transformer TMG20/0.4, 400 kVA	piece	50.00
	Power transformer TMG20/0.4, 63 kVA	piece	35.00
	Power transformer TMG20/0.4, 630 kVA	piece	15.00
	Power transformer TMN-1600/35, capacity 1600 kV*A, voltage 35/10 kV	piece	6.00
	Power transformer TMN-2500/35, power 2500 kV*A, voltage 35/10 kV	piece	7.00
	Power transformer TMN-35/1600-U1	piece	1.00
	Power transformer TMN-4000/35, capacity 4000 kV*A, voltage 35/10 kV	piece	2.00
	Power transformer TRDNS-32000 35/6/6	piece	2.00
	TMN-6300/35/6	piece	1.00
	TMN-4000/35/6	piece	1.00
	Power transformer 35/10 kV with a capacity of 4 MVA with tap-changer	piece	3.00
	Power transformer 35/20 kV with a capacity of 4 MVA with tap-changer	piece	5.00
	Power transformer TMG10/0.4, 1000 kVA	piece	1.00
	Power transformer 35/10 kV with a capacity of 10 MVA with tap-changer	piece	2.00
	Power transformer oil double-winding "eco-design" capacity 630kVA, primary voltage 10kV, secondary 0.4kV, with regulation without excitation within +2.5% -0- -2.5%.	piece	6.00
	The power transformer, with a nominal capacity of 63 kVA, type TMG (or TM) 10/0.4 kV.	piece	30.00
	A power transformer with a nominal capacity of 100 kVA, type TMG (or TM) 10/0.4 kV.	piece	30.00
	The power transformer, with a nominal capacity of 160 kVA, type TMG (or TM) 10/0.4 kV.	piece	20.00
	The power transformer, with a nominal capacity of 250 kVA, type TMG (or TM) 10/0.4 kV.	piece	20.00
	A power transformer with a nominal capacity of 400 kVA, type TMG (or TM) 10/0.4 kV.	piece	10.00
Power transformers 10-40 kV			729.00
TOTAL:			

Power transformers 110-220 kV	Power transformer 110/10kV 6.3MVA	piece	1.00
	Power transformer TDN-16000/150/10	piece	2.00
	Power transformer TDTN 25 MVA 110/35/10 kV	piece	1.00
	Power transformer TDTN-10000/110 U1	piece	1.00
	TDTN-10000/110/35/10 power transformer	piece	10.00
	Power transformer TDTN-16000 kVA 110/35/10 kV	piece	1.00
	TDTN-16000/110/35/10 power transformer	piece	4.00
	TDTN-16000/110/35/6 power transformer	piece	1.00
	TDTN-25000/110/35/10 power transformer	piece	9.00

TDTN-25000/150/35/10 power transformer	piece	3.00
TDTN-25000/150/35/6 power transformer	piece	1.00
TDTN-40000/110/35/10 power transformer	piece	9.00
TDTN-40000/150 power transformer, power 40000 kV*A, voltage 150/35/10 kV	piece	1.00
TDTN-40000/150/35/10 power transformer	piece	7.00
TDTN-63000/150/35/10 power transformer	piece	4.00
Power transformer TDTNJ-25000/110/27.5/10	piece	4.00
Power transformer TDTNJ-25000/110/27.5/6.3	piece	1.00
Power transformer TDTNJ-40000/110/27.5/10	piece	1.00
Power transformer TDTNJ-40000/110/27.5/6.3	piece	2.00
Power transformer TDTNJ-40000/110/35/27.5	piece	2.00
Power transformer TMN-6300/110/35/10	piece	2.00
Power transformer TMTN-6300/110 U1	piece	1.00
TRTN-25000/110/10/10 power transformer	piece	2.00
TRTN-40000/110/10/10 power transformer	piece	3.00
Block transformer TC-250000/150-73U1.	piece	1.00
Reserve transformer of own needs TRDN-32000/110-70	piece	1.00
Power transformer two-winding type TDN-2500 kVA, voltage 110/10 kV	piece	1.00
Power transformer two-winding type TDTN-40000 kVA, voltage 110/10/6 kV	piece	2.00
Power transformer type TDN-6300 kVA, voltage 110/10 kV	piece	2.00
Power transformer type TDTN-6300 kVA, voltage 110/35/10 kV	piece	2.00
Power transformer TDTN 16 MVA 110/35/10 kV	piece	1.00
Power transformer TRDN 40000 kVA 110/10/10 kV	piece	1.00
TDTN-40000/150/10/6	piece	1.00
TDTN-25000/150/35/6	piece	1.00
Power transformer TDN-16,000 kVA 110/6 kV	piece	1.00
Three-phase power transformer TRDN-40000/110-U1	piece	2.00
TDTN-6300/150/38.5 power transformer	piece	1.00
Power transformer three-winding type TDTN-16000 kVA, voltage 110/10/6 kV	piece	1.00
Power transformer three-winding type TDTN-25000 kVA, voltage 110/10/6 kV	piece	1.00

Power transformers 110-220 kV

92.00

TOTAL:

Power transformers up to 6 kV	Transformer OSVLp-2.5/6	piece	10.00
	Transformer power oil two-winding "ecodesign" power 630kVA primary voltage 6kV, secondary 0.4kV, with adjustment without excitation within +2.5% -0- -2.5%.	piece	6.00
	Transformer power oil two-winding "eco-design" power 400kVA primary voltage 6kV, secondary 0.4kV, with adjustment without excitation within +2.5% -0- -2.5%.	piece	2.00
	Power transformer TM-630/6 ZTR (Snom - 630 kVA; Unom HV/LV - 6/0.23 kV)	piece	5.00
Power transformers up to 6 kV TOTAL:			23.00

Current transformers (high voltage)	Current transformer 110 kV IMB 123; SA-123	set 1 phase	12.00
	150 kV current transformer	piece	6.00
	Current transformer 150 kV CA-170	piece	12.00
	Current transformer 150 kV IMB-170	set 1 phase	6.00
	Current transformer IOSK-362SR 362 kV 2000/1A	piece	12.00
	Current transformer SAS-363 Siemens 330 kV	set 1 phase	25.00
	Current transformer TG-145 HITACHI-ABB, 600-1000/5, 110 kV	set 1 phase	17.00
	Current transformer TG-245 HITACHI-ABB 220 kV	set 1 phase	15.00
	TFZM 123 current transformer	piece	18.00
	Current transformer IMB-170, Current transformer, support metal structure, Current transformer 150kV 600/5, 0.5S/0.5S/0.5/10P/10P/10P	set 1 phase	15.00
	Current transformer TFZM-110 M	set 1 phase	6.00
	Current transformer 110 kV, 300/600/600/600; 30VA/0.5S, 30VA/10P, 30VA/10P, 30VA/10P	piece	9.00
	Current transformer TOGF-110.II* 1000/5A 10P/10P/10P/0.2S/0.2S/0.2S	piece	6.00
	Current transformer TOGF-110.III-0.2S/0.2S/10P/10P/10P/10P-1000/5 UHLI*	piece	3.00
	Current transformer TOGF-110.II* 600/5A 10P/10P/0.5S/0.2S/0.2	piece	6.00
	Current transformer 110 kV, IMB-145 1000/1 HITACHI TG-145 HITACHI	set 1 phase	6.00
	Current transformer TG 170 HITACHI-ABB 150 kV (1200/5)	set 1 phase	32.00
	Current transformer SAS-363 Siemens 330 kV, 3000/1	set 1 phase	6.00
	Current transformer TG-145 HITACHI-ABB 110 kV, 1500/5	set 1 phase	13.00
	110 kV current transformer	piece	6.00
	Current transformer TG-145 HITACHI-ABB 110 kV, 1500/1	set 1 phase	1.00
	Current transformers 150kV 2000/5	set 1 phase	6.00

	Current transformers 150kV 1200/1	set 1 phase	6.00
	Current transformer 330 kV (Unom - 330 kV; Kt - 2000/1 A; Accuracy class - 0.2/0.5/10P20; type IMB-420)	set 1 phase	1.00
	Current transformer 330 kV (Unom - 330 kV; Kt - 1000/1 A; Accuracy class - 0.5/10P/10P/10P; type TFUM-330)	set 1 phase	5.00
Current transformers (high voltage) TOTAL:			250.00

Current transformers (low voltage)	Current transformer 1000/5A (set of 2 pcs.)	piece	12.00
	Current transformer 200/5A (set of 2 pcs.)	piece	24.00
	Current transformer 300/5A (set of 2 pcs.)	piece	24.00
	Current transformer 400/5A (set of 2 pcs.)	piece	24.00
	Current transformer 600/5A	piece	24.00
	0.38 kV current transformer	piece	144.00
Current transformers (low voltage) TOTAL:			252.00

Current transformers (medium voltage)	20 kV current transformer with molded insulation for internal installation 0.5S/0.5S/10P-100/5	piece	18.00
	20 kV current transformer with cast insulation for internal installation 0.5S/0.5S/10P-150/5	piece	18.00
	20 kV current transformer with molded insulation for internal installation 0.5S/0.5S/10P-200/5	piece	19.00
	Current transformer 20 kV with cast insulation for internal installation 0.5S/0.5S/10P-30/5	piece	12.00
	20 kV current transformer with molded insulation for internal installation 0.5S/0.5S/10P-300/5	piece	15.00
	20 kV current transformer with molded insulation for internal installation 0.5S/0.5S/10P-400/5	piece	15.00
	Current transformer 20 kV with cast insulation for internal installation 0.5S/0.5S/10P-50/5	piece	12.00
	Current transformer 20 kV with cast insulation for internal installation 0.5S/0.5S/10P-600/5	piece	9.00
	Current transformer 20 kV with cast insulation for internal installation 0.5S/0.5S/10P-75/5	piece	12.00
	35 kV current transformer	set 1 phase	3.00
		piece	45.00
	Current transformer 35 kV CTSO 38; GIF 36	set 1 phase	12.00
		piece	3.00
	35 kV TFZM-35 current transformer	set 1 phase	90.00
Current transformer TPO 70.11 HITACHI-ABB 35 kV	set 1 phase	3.00	
Current transformer TOLU-10-2.2-Г2-0.5S//10P-100/5	piece	30.00	

Current transformer TOLU-10-2.2-Г2-0.5S//10P-150/5	piece	20.00
Current transformer TOLU-10-2.2-Г2-0.5S//10P-200/5,	piece	12.00
Current transformer TOLU-10-2.2-Г2-0.5S//10P-300/5	piece	6.00
Current transformer TOLU-10-2.2-Г2-0.5S//10P-400/5	piece	10.00
Current transformer TOLU-10-2.2-Г2-0.5S//10P-600/5	piece	12.00
Current transformer TPL-10 75/5 (0.5S)	piece	12.00
Current transformer TPLU-10-1.2-1V-0.5S//10P-30/5	piece	12.00
Current transformer TPLU-10-1.2-1V-0.5S//10P-50/5	piece	42.00
Current transformer TPLU-10-1.2-1V-0.5S/10P-100/5	piece	48.00
Current transformer TPLU-10-1.2-1V-0.5S/10P-75/5	piece	12.00
Current transformer TPLU-10-1.2-2V-0.5S//10P-150/5	piece	12.00
Current transformer TPLU-10-1.2-2V-0.5S//10P-400/5	piece	12.00
Current transformer TPLU-10-1.2-2V-0.5S/10P-200/5	piece	12.00
Current transformer TPLU-10-1.2-2V-0.5S/10P-300/5	piece	12.00
Current transformer TPL-E-12-02-0.5S/10P 75/5 U2	piece	24.00
Current transformer TPL-E-12-03-0.2S/10P/ 10P-200/5 U2	piece	12.00
Current transformer TPL-E-12-03-0.2S/10P/10P 100/5 U2	piece	24.00
Current transformer TPL-E-12-03-0.2S/10P/10P 150/5 U2	piece	24.00
Current transformer TPL-E-12-03-0.2S/10P/10P 300/5 U2	piece	12.00
Current transformer TPOLU-10-2.2-2Г-0.5S//10P-150/5	piece	30.00
Current transformer TPOLU-10-2.2-2G-0.5S//10P-200/5	piece	12.00
Current transformer TPOLU-10-2.2-2G-0.5S//10P-300/5	piece	12.00
Current transformer TPOLU-10-2.2-2G-0.5S//10P-400/5	piece	6.00
Current transformer TPOLU-10-2.2-2G-0.5S//10P-600/5	piece	6.00
Current transformer TPOLU-10-2.2-Г1-0.5S//10P-100/5	piece	30.00
Current transformer TPOLU-10-2.2-Г1-0.5S//10P-50/5	piece	30.00
Current transformer TFZM 35 GIF 36	set 1 phase	3.00
Current transformer TFZM-123-II-0.5S/10P/10P 300-600/5 U1	piece	12.00
Current transformer 6-10 kV	piece	267.00
CTSO 38 reference current transformer	set 1 phase	24.00
Current transformer 35kV, 75/5 0.5S/10P/10P	piece	3.00
Current transformer 35kV, 100/5 0.5S/10P/10P	piece	3.00
Current transformer 35kV, 200/5 0.5S/10P/10P	piece	3.00

	Reference current transformer CTSO 38 100/5 0.5S/0.5S/10P/10P	set 1 phase	9.00
	Reference current transformer CTSO 38 150/5 0.5S/0.5S/10P/10P	set 1 phase	9.00
	Reference current transformer CTSO 38 200/5 0.5S/0.5S/10P/10P	set 1 phase	9.00
	Reference current transformer CTSO 38 400/5 0.5S/0.5S/10P/10P	piece	6.00
	Reference current transformer CTSO 38 600/5 0.5S/0.5S/10P/10P	piece	6.00
	Current transformer TPO 70.11 HITACHI-ABB, 600/5, 35 kV	set 1 phase	8.00
	Current transformer 10 kV (Unom - 35 kV; Kt - 3000/5)	set 1 phase	3.00

Current transformers (medium voltage) TOTAL: 1137.00

High voltage transformer substations	Complete transformer dead-end substation 250/10/0.4 kV	piece	10.00
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High voltage transformer substations TOTAL: 10.00

Transformer substations of medium voltage	Block complete transformer substation 6-10 kV with transformers (2x250-630 kVA)	piece	20.00
	Complete mast transformer substation (160-250 kVA)	piece	110.00
	Transformer substation KTPV-630/6/1,3	piece	1.00
	Transformer substation KUVPP-401	piece	4.00
	Transformer substation TSVP-630/6/1.3	piece	2.00
	Complete transformer substation 10/0.4 kV; 250 kVA	piece	12.00
	Complete dead-end transformer substation, air input 10/0.4 kV 100 kVA	piece	20.00
	Complete transformer substation dead-end air inlet 10/0.4kV 160 kVA	piece	20.00
	Complete dead-end transformer substation, air input 10/0.4 kV 250 kVA	piece	10.00
	Complete pass-through transformer substation with cable entry 10/0.4 kV 400 kVA	piece	10.00
Complete dead-end transformer substation, air input 10/0.4 kV 400 kVA	piece	8.00	

Transformer substations of medium voltage TOTAL: 217.00

Gas tracers	Track finder SPRUT-17	piece	2.00
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Gas trackers TOTAL: 2.00

Lightning cable	Lightning cable 8.2 mm ²	km	10.00
	Lightning cable 9.1mm ²	km	10.00
Lightning cable TOTAL:			20.00
Metal cables	Rope type TK1*19(1+6+12) GOST 3063-80 Rope diameter 8.1 mm, wire 1.7 mm. (8,1-G-V-S-P-N-T-1570)	km	2.00
	Cable type TK1*19(1+6+12) GOST 3063-80 Rope diameter 9.1 mm, wire 1.9 mm. (9,1-Г-B-C-П-H-T-1570)	km	2.00
Metal cables TOTAL:			4.00
Pipe products	Electrowelded pipe D 65, 76*3 mm	km	0.09
	Electrowelded pipe D100, 108*4mm	km	0.03
	Electrowelded pipe D80, 89*3 mm	km	0.09
	Pipe PE 100 SDR 11 Dn 32x3.0	km	0.20
	Pipe PE 100 SDR 17.6 Dn 63x3.6	km	0.05
	Steel water and gas pipeline DU 20, 26.8*2.8 mm	km	0.50
	Steel water and gas pipeline DU 25, 33.5*2.8 mm	km	0.09
	Steel water and gas pipeline DU 50, 60*3 mm	km	0.12
	PVC pipe TV-40 D=4 mm	tons	0.01
	Pipe products. DN 219*7 PN 64	m	7000.00
Pipe products TOTAL:			7001.18
Chemicals	Butylhydroxytoluene is a stabilizer (restoring properties) of transformer oil	kg	500.00
	Adsorbent. Molecular Sieve 5A, 4A, 3A.	tons	37.00
	Activated charcoal . Norit RB 4W or similar.	tons	2.50
	Methyl tert-butyl ether. Brand A, the highest grade.	tons	16732.00
	Fuel additives. Density at 15°C, g/cm ³ , within 0.890-0.970; - viscosity at 20°C, mm ² /s, within 2-30 - alkaline number, mg KOH/g, not less than 3	tons	73.50
	Linear and cross-linked water-based gel.	cubic m	10000.00
	Calibration gas mixture. Type "natural gas" in cylinders with a volume of 10 liters, pressure not less than 70 bar. Components of the mixture: C1, C2, C3, n-C4, i-C4, n-C5, i-C5, neo-C5, C6, CO2, N2, O2. ISO 6142 calibration mixture conformance	piece	30.00
	Surfactant. "Solpen-10T" or SE-235-A liquid or analog.	tons	30.00
Chemicals TOTAL:			27405.00

Cabinets and drawers	Autotransformer cooling automation cabinet	piece	2.00
	KRUZ-10 kV cubicle cabinet with a 10 kV vacuum switch and RZA devices	piece	16.00
	Cabinet of switches for automatic electricity metering	piece	1.00
	Cabinet of operational current SHOT-200A	piece	1.00
	Accounting cabinets KDE-2, IP54	piece	5874.00
	Accounting cabinets KDE-U, IP54	piece	2995.00
	Box mounting hinged BM-70	piece	2.00

Cabinets and drawers TOTAL: 8891.00

Electric tires	Aluminum tire 100x1000mm	tons	0.10
	Aluminum tire 5X50	tons	0.20
	Aluminum tire 50x5 mm.	tons	0.50
	Aluminum tire 60x6 mm.	tons	0.20
	Aluminum tire 80x6 mm.	tons	0.20
	Aluminum tire 100x10mm	tons	0.10

Tires electric TOTAL: 1.30

Control panels	Cell 10 kV internal installation	piece	14.00
	The panel for the formation of management teams at VN	piece	3.00
	Cell KRUN-10-630 TVP	piece	3.00
	Cell KRUN-10-630 TN	piece	3.00
	Cell KRUN-10-630 TN with cast insulation 0.5S/3P	piece	4.00
	Cell KRUN-10-630 air connection. TC 150/5; 0.5S/10P	piece	20.00
	Cell KRUN-10-630 air connection. TC 300/5; 0.5S/0.5S/10P/10P	piece	2.00
	Cell KRUN-10-630 air connection. TC 200/5; 0.5S/0.5S/10P/10P	piece	4.00
	Cell KRUN-10-630 sectional TS 200/5; 0.5S/10P	piece	2.00
	Cell KRUN-10-630 air connection. TC 600/5; 0.5S/10P/10P; 200/5 0.5S	piece	2.00
	Cell KRUN-10-630 TVP TS20/5, 0.5S	piece	4.00
	Cell KRUN-10-630 air connection. TC 300/5; 0.5S/10P	piece	2.00
	The cell KRUN-10-630 is sectional. TC 600/5; 0.5S/10P	piece	1.00
	Cell KRUN-10-630 sectional TS 300/5; 0.5S/10P	piece	1.00

Control panels TOTAL: 65.00

Contacts

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