

**List
of the "Fittings" position for 2019**

No.	Nomination of purchases of goods and other investment expenses	MU	Proposal	
			Quantity	Value
0	1	2	3	4
I. CNE Cernavoda branch				61.923
1	Heavy water for supplementing the U1 and U2 inventory	Kg	6.500	14.950
2	Capital repairs on the pumps type NMV 1000RA/NMV 1000 BSI 71310 and 71340	Piece	1	1.100
3	Repairs on the electric motor related to 1-4232-PM03	Piece	1	1.126
4	Capital repairs of electrical pumps NMV 2000, BSI 71210	Piece	1	1.500
5	Spare parts such as assets necessary within the activities of maintenance, repairs and implementation of project modifications on CNE systems and equipment in order to ensure the operation under nuclear safety and economic efficiency conditions	Batch	1	7.600
6	Axle-type universal drilling machine for machining	Piece	1	82
7	Parallel lathe model SP 360X1000, extremity height 180 mm, distance between extremities 1.000 mm	Piece	1	39
8	Drilling machine FU 36 PM or equivalent motorized bridge with processing table 360 * 1.000 mm	Piece	1	75
9	Flat rectifying machine type RPO 320 X 1000 or equivalent panel 320 * 1.000 mm	Piece	1	132
10	Universal rectifying machine RU 350 X 3000 diam of the processing part 350 mm distance between axles 300 mm	Piece	1	132
11	Universal parallel lathe with high bore type SP-BF560 X 2000, maximum processing diameter above the chassis = 560 mm, maximum processing diameter above the skid = 325 mm, distance between the extremities = 2,000 mm	Piece	1	119
12	Compressed air plasma cutting machine PC 150 maximum sheet thickness cs = 35 mm, 32 kva, maximum thickness SS = 20 MM, 3580V/50 hz/3 ph	Piece	1	54
13	Weighing platform with a platform area access ramp: 125 * 200 cm, maximum platform height 10 cm, minimum capacity 1.000 kg, maximum capacity 3,000 kg	Piece	1	25
14	System for measuring pipeline vibrations composed of: portable analyzer, software for the portable analyzer, triaxial accelerometers, microphone, signal convertor and connecting cables	Piece	1	190
15	Mobile stand for testing safety areas with sizes between 3/8" and 8" maximum testing pressure: 2900 PSI, necessary force for fastening areas: 15 tons	Piece	1	42
16	Thermographic camera FLIR P 660 sensor resolution 640 * 480 visual field/minimum focusing distance 12" * 9"/1,2 M	Piece	1	138
17	Ultrasound detector, ultraprobe 15.000 TOUCH DOM. Frequency 20KHZ - 100KHZ display QVGA touchscreen	Piece	1	70
18	portable vibration collector DYNAMIX 2500 fitted with a set of dynamic balancing devices and a set of laser tachometers	Piece	1	93
19	Three-phase kit for checking protection relays MEGGER SVERKER 900, 4 phases CA 4300V, power 4 phases CA 4X125VA & 4 channels CC 4X125W, angle range 0-360 degrees, input 100-240VCA, 50/60HZ, current outputs CA 3X35A, 3 phases CC 3X35A, 3 phases CA 3X20A, 3 phases CC 3X17A, power CA 3X250VA, 3 phases CC 3X250W	Piece	1	85
20	Portable micro-ohmmeter 10A, for testing contacts and switches, cable resistance, motor and transformer heating, wide measuring range from 1UOHM to 2500 OHM. Three measuring modes: inductive mode, non-inductive mode, with automated triggering for measuring on the time constant resistance, capacity for measuring 1500 measurements	Piece	2	35
21	Megohmmeter type megger BM 25, resistance range 10KOHM - 5TOHM Digital/100KOHM->1TOHM analog, testing voltage 500/1000/2500/5000V and variable 25V, for 5000V, testing voltage precision +/-5% of the nominal value of the charge resistance at 10MW, leakage current 0.01NA+/-5%+/-0.2NA, capacity 0.01UF-10.0UF+/-15%+/-0.03UF, measured voltage 50V	Piece	2	39
22	Data acquisition kit - 4 analog channels, universal input (1MV up to 425V RMS), measures voltages AC+DC RMS, based on the power analysis, 16 logical inputs, 2 inputs PT100/PT1000 14 bit resolution, screen TFT LCD 10", bandwidth 100 KHZ, all parameters registered in a single-phase or three-phase network	Piece	2	55
23	Kit for measuring ohmic resistance at power transformers MEGGER MTO330, input voltage 120/240V, 50/60HZ, power 720VA, inputs (selected) up to 10MA/100MA/1A/10A, testing current up to 500VCC, measured resistance 1MOHM - 2OHM@10A/10MOHM - 2OHM@1A/100MOHM - 2 0O0HM@100MA - 1MOHM - 2000O0HM@10MA, precision +/-0.25% reading +/-0.25% from the full scale	Piece	1	58
24	Energy quality analyzer FLUKE 435 SERIES II. AC and DC input energy measured simultaneously for electronic energy systems that uses DC current prongs, captures fast RMS data, shows half cycles and wave shapes in order to characterize the dynamics of the electrical systems (generator startups, UPS, switches)	Piece	1	29
25	Ampermeter prong with remote display FLUKE 381, jaw current 999.9A resolution 0.1A and precision 2% +/-5 digits, IFLEX 2 current, 5KA, resolution 0.1A and precision 3% +/-5 digits, intensity CA/CC 1KV, resolution 0.1V and precision 1.5/1% +/-5 digits, resistance 6000O0HM, resolution 0.1O0HM and precision 1% +/-5 digits, frequency 500HZ, resolution 0.1HZ	Piece	3	9
26	Calibrator model FLUKE 715, measures the signals of current loops (0MA-20MA, 4MA-20MA) with a precision of 0.015% and a resolution of 1MA	Piece	1	8
27	Detector MEGGER BGFT, transmitter supply source 120/240VCA, 50/60HZ, alkaline battery receiver supply source 9V, dependent charging current source 0-1.7A RMS, defect resistance 1KOHM-399KOHM at 50V, capacity 0.01MF-11.1MF	Piece	1	38

28	Tripolar switch analyzer PME-500-TR, 3 synchronization inputs for the main circuit voltage contacts 10VDC max, testing current intensity 100MA max, 2 insulated auxiliary binary inputs, circuit voltage 5VDC, testing current voltage 20MA max, voltage field +/-1.5-360V CA/CC	Piece	1	46
29	Inducer bearing SKF small code TIH 030 temperature control 0-250 CEL	Piece	2	26
30	Induction heater TMBH 1 SKF 100-240V/50HZ, 300W, inner diam. =20-100MM, control temp. =0-200CEL	Piece	2	15
31	Laser alignment kit, axle diameter = 20-450MM and measuring distance ~ 10M, fully fitted	Piece	4	80
32	Portable remote vibration monitoring system, composed of: multichannel unit (SYSTEM 8 X VIB CHANNELS + 2 X TAHO CHANNELS + 3 X REPLAY DRIVER), sensors and pressure cables (8 pieces vibration sensors and connecting cables + 1 piece rotation sensor and cable), 1 * SOFT and 1 * transportation box and protection with a communication and supply connection	Piece	1	151
33	VOTES INFINITY valve diagnosis system	Set	1	1.750
34	Thermal treatment machine	Piece	1	130
35	Mobile metallic cabinet, LXLXH=0.6X1.0X1.2M, 4 ROLLERSX125MM, frontal closure system	Piece	5	110
36	Metallic cabinet for temporary caps and internal barriers for activities on electrical systems, LXLXH=0.6X1.4X1.8M	Piece	2	42
37	Metallic cabinet for temporary caps and internal barriers for activities on automation and control systems, LXLXH=0.6X1.2X2.0M	Piece	2	43
38	Spare parts for maintenance of Turbogenerator U1OP19	Batch	1	3.000
39	Spare parts (Actuators CV, Spring box CV)	Batch	1	4.000
40	Gauge equipment for checking dynamometric keys / screwdrivers	Piece	1	100
41	Notebook and accessories for software calibrations	Piece	1	10
42	Filling a canister with heavy water, metrological certification for the heavy water canister	Kg	10	300
43	Ultrasound scanner ROLLER FORM, OLYMPUS, model ROLLER FORM - 5L64, P/N U8775335	Piece	1	62
44	Conventional UT fault detector	Piece	2	116
45	Fault detector UT PHASED-ARRAY	Piece	1	63
46	Video camera 21mm for OLYMPUS	Piece	2	14
47	Tool set AECL for the underwater inspection of burnt fuel bundles	Piece	1	600
48	Motorized valve, 2 ways, 2 positions NC, body connections 1/2 FNPT, body material SA 182 F316, RATING 1500LB, MAROTTA P/N NOU 281480-9006, new drawing CURTISS WRIGHT MD30341, model FVS-8	Piece	5	2.768
49	Central support, pos. 2 drawing 79-35211-1-2-GA-E, for Cap. MID - Coupling device set	Piece	2	800
50	PH analyzer	Piece	4	55
51	Sodium analyzer LOW LEVEL	Piece	1	67
52	Automated laboratory titrator model mettler toledo DL50/T50A rondolino with automated takeover	Piece	1	90
53	Laboratory equipment for nephelometric turbidity tests	Piece	2	30
54	Chromatographic laboratory system for gas purity tests	Piece	2	340
55	Motors for the electric transfer pump	Piece	8	30
56	Label printer	Piece	1	2
57	PH-meter	Piece	1	11
58	Analytic scales	Piece	1	30
59	Air compressor 200 l /2.2 kW/Pn 8 bar - 1 piece	Piece	1	4
60	Air compressor 270 l /4 kW/Pn 11 bar - 1 piece	Piece	1	5
61	Inverter welding device - 1 piece	Piece	1	5
62	Transformer 20/04kV; 400kVA	Piece	1	27
63	Digital multimeter (model FLUKE)	Piece	1	6
64	Pressure calibrator with modules DRUKE	Piece	1	30
65	Multifunctional calibrator (model FLUKE)	Piece	1	5
66	Calculation software ANSYS MECHANICAL and CFD	Piece	1	339
67	Calculation software ANSYS MECHANICAL and CFD	Piece	1	32
68	Workstation fitted with a HIGH PERFORMANCE COMPUTING license	Piece	1	191
69	Furniture for the Pavilion 8 archive (Mobile archiving rack system)	Batch	1	470
70	Snubber program implementation (purchasing backup snubbers PSA for U2OP19, U1OP20)	Batch	1	4.694
71	Network scanning equipment (Digital Sender)	Piece	8	153
72	Compatible Server Blade HP C7000 ENCLOSURE	Piece	1	990
73	Printer LASER MONOCROM A3/A4 HP M806DN	Piece	34	332
74	Printer HP LASERJET ENTERPRISE 600 M606X	Piece	7	35
75	Printer LASER COLOR A3/A4 HP M855XH	Piece	6	103
76	Laptop HP ELITEBOOK 830 G5	Piece	1	7
77	Laptop HP ELITEBOOK 850 G5	Piece	1	8
78	Label printer THERMAL INTERMEC	Piece	5	43
79	Digital senders	Piece	37	594
80	UPS Smart 2200 VA	Piece	5	25
81	UPS Smart 1500 VA	Piece	7	21
82	License "ORACLE DATABASE PARTITIONING"	Piece	4	180
83	License "ORACLE DIAGNOSTIC PACK"	Piece	14	416
84	License Microsoft Exchange Server Enterprise 2016	Piece	1	16
85	Licenses Microsoft Office Professional Plus 2010 or equivalent	Piece	20	10
86	Licenses Microsoft Windows 10 Enterprise LTSB 2016 Upgrade	Piece	1.118	1.667
87	Licenses Microsoft Windows 10 PRO or equivalent	Piece	290	248
88	SW license for monitoring the storage system SRM500	Piece	1	79
89	SW license for monitoring the virtualization system VM64	Piece	1	78
90	Electronic system for registering and recording radioactive waste and materials	Piece	1	72
91	Simulator for preparing personnel qualified in radio protection (using a frisker and a radiation flowmeter)	Piece	1	150
92	Portable gamma spectrometers	Piece	1	320

93	System with liquid scintillators for measuring Tritium and Carbon - 14 in biological samples and effluents, Model TRI-CARB 5110TR	Piece	1	313
94	Modernization four monitors RTM 860	Piece	1	1.801
95	Equipment/software for modernizing the PAD system	Piece	1	492
96	Voice recorder	Piece	2	138
97	Remotely operated electronic siren	Piece	1	70
98	Closed source container range DE CS- 137, model PANARAD - CS7P040002	Piece	1	173
99	TLD irradiator PANASONIC, model UD - 7940N1EU	Piece	1	370
100	Laboratory sink, stainless steel sink, 1 vat, width 50-60CM, depth 40-45CM, height 20-26CM	Piece	1	8
101	Distilled water installation, capacity 6L/HR	Piece	1	7
102	Calculation code license CATHENA and NUCIRC	Batch	1	125
103	Calculation model Phoenix for EPSN/EOOS	Batch	1	250
104	Ensuring the safety inventory for vital products	Batch	1	2.000
105	Video projectors (with a fastening/support system) for meeting rooms	Piece	3	13
106	Tractor-type multifunctional machinery	Piece	1	190
107	5-seat car	Piece	4	173
108	7/8 seat car	Piece	3	178
109	Security personnel car	Piece	3	220
110	Generator diesel group, power 100KVA, voltage 230/400V, frequency 50HZ	Piece	1	54
111	Furniture for the accommodation complex (armchair couches)	Piece	20	60
112	Audio/video recording system for replacing the existing one in the Simulator	Piece	1	136
113	Video projector for DPAP lecture rooms	Piece	10	35
114	Integrated audio system for the Simulator	Piece	1	100
115	Monitors for presentations in DPAP lecture rooms	Piece	2	27
116	Equipment for detecting explosives and narcotics	Piece	3	600
117	Portable metal detector	Piece	1	40
118	Electronic breathalyzer with accessories	Set	8	92
119	Air conditioning units	Piece	5	20
120	Proximity card printer	Piece	1	10
121	Document scanner for the electronic archive	Piece	1	15
122	Mirror with telescopic arm for antiterrorism inspections	Piece	5	24
123	Container for documents classified "class C" or class "light B"	Piece	4	24
124	Automated pedestrian sliding doors	Piece	5	70
125	Security booths (booths for outdoor security stations)	Piece	6	36
126	Photo camera	Piece	1	5
II. FCN Pitesti Branch				7.504
1	Software licenses (Adobe acrobat writer, p=library package for optimizing the source code)	Piece	9	46
2	FortiAnalyzer	Piece	1	20
3	Radiation sources for monitor gauging hands - legs - clothes	Piece	2	24
4	Monitor hands - legs - clothes	Piece	2	236
5	USB reader for dosimeters	Piece	1	10
6	Professional ironing station	Piece	1	71
7	Air conditioning unit	Piece	2	9
8	5-seat car	Piece	1	71
9	Bus	Piece	5	3.929
10	FC pallet storage metallic rack system	Piece	1	24
11	Container for storing materials	Piece	2	52
12	DC - arc spectrometer	Piece	1	862
13	Autoclave	Piece	1	249
14	Stereozoom	Piece	1	7
15	Multifunctional document printing equipment (scanning/copying)	Piece	1	21
16	Color multifunctional printer	Piece	4	12
17	Filtering chemical slot with exhaust system	Piece	1	54
18	Gas leak detector	Piece	1	5
19	Ultra pure water device	Piece	1	25
20	Fluorine meter with accessories	Piece	1	246
21	Technical scales	Piece	2	7
22	Grill vibration-finishing installation	Piece	1	100
23	Sand blasting equipment	Piece	2	60
24	A0 laser multifunctional system	Piece	1	50
25	Precision scales	Piece	6	30
26	Demineralized water installation	Piece	1	500
27	Demineralized water storage system	Piece	1	8
28	Compressed air dryer	Piece	2	91
29	Pumps (centrifugal)	Piece	2	12
30	Microscope	Piece	2	36
31	Beryllium box	Piece	1	3
32	MSDG table	Piece	1	3
33	Roughness data acquisition system	Piece	1	5
34	Spare parts such as assets necessary for activities	Batch	1	630
III. SNN Headquarters				1.572
1	Air conditioning units	Piece	19	65
2	Car purchases	Piece	2	260
3	Telecommunications equipment	Piece	5	30
4	Network equipment, computers, printers, etc.			
4.1	- servers	Piece	3	130
4.2	- (desktop) computers	Piece	5	21

4.3	- computers (laptop/tablet)	Piece	10	40
4.4	- storing equipment	Piece	4	93
4.5	- network scanners	Piece	1	15
4.6	- network assets / various components for the IT infrastructure	Piece	10	90
4.7	- video conference system	Piece	1	76
4.8	- phone station modernization	Piece	1	130
4.9	- computer security solutions	Piece	4	70
4.10	- information encrypting / data backup solution	Piece	1	70
4.11	- DLP (Data Loss Prevention) system	Piece	1	130
5	Software licenses (applications and utilities)	Piece	30	43
6	Energy trading information centralization software	Piece	1	238
7	Energy trading information centralization application licenses	Piece	5	71
Total				70.999

Chief Executive Officer
Cosmin Ghita

Chief Financial Officer
Adrian Gabriel Dumitriu