Annex to the letter of
LLC "Gas Distribution Networks of Ukraine"

LLC "Gas Distribution Networks of Ukraine"
Equipment and material needs

Item No.	Equipment	Category	Unit of measure	Quantity
1	3	4	5	6
1	Flanged ball valve, full bore 11c336п DN250 PN16 with reducer	Inventory items	pcs.	50
2	Flanged welded ball valve, full bore 11c337п DN250 PN16 with reducer	Inventory items	pcs.	50
3	Flanged ball valve, full bore 11c336п DN300 PN16 with reducer	Inventory items	pcs.	40
4	Flanged welded ball valve, full bore 11c337п DN300 PN16 with reducer	Inventory items	pcs.	40
5	Ball valve DN 350 PN 16 (flanged)	Inventory items	pcs.	30
6	Ball valve DN 350 PN 16 (welded ends)	Inventory items	pcs.	30
7	Ball valve DN 400 PN 16 (flanged)	Inventory items	pcs.	30
8	Ball valve DN 400 PN 16 (welded ends)	Inventory items	pcs.	30
9	Ball valve DN 500 PN 16 (flanged)	Inventory items	pcs.	30
10	Ball valve DN 500 PN 16 (welded ends)	Inventory items	pcs.	30
11	Ball valve DN 600 PN 16 (flanged)	Inventory items	pcs.	10
12	Ball valve DN 600 PN 16 (welded ends)	Inventory items	pcs.	10
13	Ball valve DN 700 PN 16 (flanged)	Inventory items	pcs.	10
14	Ball valve DN 800 PN 16 (flanged)	Inventory items	pcs.	10
15	Ball valve DN 1000 PN 16 (flanged)	Inventory items	pcs.	5
16	Hydraulic power pack (Super aspid B (DOA) complete with: high-pressure hose with a set of closed quick couplings, L=7000 mm prepared (4 pcs.) or equivalent)	Equipment	pcs.	42
17	Hydraulically driven fan with aspirator function ((DOA) AV28H-1pcs., complete with: air hose guide-1pcs., air hose transport terminal -1pcs, air hose D=200mm, L=8m -1pcs., or equivalent)	Equipment	pcs.	42
18	Hydraulic slurry pump (SP35 DOA (Italy) -1 pcs. complete with: heat-resistant flat pressure hose D=76mm or equivalent)	Equipment	pcs.	42
19	Hydraulic drill (CD10 (Stanley) or equivalent)	Equipment	pcs.	42
20	Gas pressure regulator (flanged connection DN50 (class PN 16/25 according to ISO 7005-1, ISO 7005-2)/threaded G2", ambient temperature -30°C ... +60°C, maximum pressure 12 bar (1.2 MPa), triggering pressure 13÷50 mbar)	Equipment	pcs.	42
21	Gas pressure regulator (flanged connection (class PN 16/25 according to ISO 7005-1, ISO 7005-2) DN80, ambient temperature -30°C ... +60°C, maximum pressure 12 bar (1.2 MPa), reducing pressure 13÷50 mbar).	Equipment	pcs.	42
22	Rotor gas meter DELTA (DN 50, G65, 1:200)	Appliance	pcs.	47
23	Rotor gas meter DELTA (DN 80, G100, 1:200)	Appliance	pcs.	43
24	Rotor gas meter DELTA (DN 80, G250, 1:130)	Appliance	pcs.	46
25	Rotor gas meter DELTA (DN 100, G400, 1:160)	Appliance	pcs.	23
26	Rotor gas meter DELTA (DN 150, G650, 1:200)	Appliance	pcs.	17
27	Ultrasonic gas meter RMG USM-GT400 (DN 150 (6"), P > 4bar: 20... 2400 m3/h (p.y.))	Appliance	pcs.	3
28	Ultrasonic gas meter RMG USM-GT400 (DN 200 (8"), P > 4bar: 32... 4200 m3/h (p.y.))	Appliance	pcs.	3
29	Ultrasonic gas meter RMG USM-GT400 (DN 300 (12"), P > 4bar: 70... 9600 m3/h (p.y.))	Appliance	pcs.	8
30	Ultrasonic gas meter FLOWSIC600 4-path version (DN 250 (10"), G1600: 50... 2500 m3/h (p.y.))	Appliance	pcs.	7
31	Ultrasonic gas meter FLOWSIC600 4-path version (DN 300 (12"), G4000: 80... 6500 m3/h (p.y.))	Appliance	pcs.	4
32	Ultrasonic gas meter FLOWSIC600 4-path version (DN 350 (14"), G2500: 80... 4000 m3/h (p.y.))	Appliance	pcs.	1
33	Ultrasonic gas meter FLOWSIC600 4-path version (DN 350 (14"), G4000: 80... 6500 m3/h (p.y.))	Appliance	pcs.	2
34	Ultrasonic gas meter FLOWSIC600 4-path version (DN 400 (16"), G2500: 130... 4000 m3/h (p.y.))	Appliance	pcs.	2
35	Ultrasonic gas meter FLOWSIC600 4-path version (DN 400 (16"), G4000: 130... 6500 m3/h (p.y.))	Appliance	pcs.	1
36	Turbine gas meter TZ/FLUXI (DN 80, G160, 1:30)	Appliance	pcs.	10
37	Turbine gas meter TZ/FLUXI (DN 100, G250, 1:30)	Appliance	pcs.	10
38	Turbine gas meter TZ/FLUXI (DN 150, G650, 1:30)	Appliance	pcs.	9
39	Turbine gas meter RMG TME 400-VMF (DN 200, G1000, 1:50)	Appliance	pcs.	1
40	Turbine gas meter RMG TME 400-VMF (DN 250, G1600, 1:50)	Appliance	pcs.	1
41	Turbine gas meter RMG TME 400-VMF (DN 300, G2500, 1:50)	Appliance	pcs.	4
42	Turbine gas meter RMG TME 400-VMF (DN 300, G4000, 1:30)	Appliance	pcs.	5
43	Turbine gas meter RMG TME 400-VMF (DN 400, G4000, 1:30)	Appliance	pcs.	1
44	Measurement complex ФЛОУТЕК-ТМ-2-3-4 (ПК-В execution type 2)	Appliance	pcs.	53
45	Measurement complex ФЛОУТЕК-ТМ-2-3-6 (ПК-В execution type 2)	Appliance	pcs.	6
46	Measurement complex ФЛОУТЕК-ТМ-2-4-4 (execution type for FLOWSIC 600)	Appliance	pcs.	25
47	Gas volume corrector BETA-1.01 N0 — with pTZ-correction (temperature, pressure, and compressibility factor correction), measurement of absolute gas pressure of 0.7 MPa	Appliance	pcs.	1197
48	Gas flow meter Primus 400 — with pTZ-correction (temperature, pressure, and compressibility factor correction), measurement of absolute gas pressure of 2-100 bar	Appliance	pcs.	10
49	Mass Flow Transmitter Rosemount 3095 MultiVariable	Appliance	pcs.	22
50	Intelligent radio module iMod-VEGA (for rechargeable battery)	Appliance	pcs.	200
51	Calibrator Beamex MC6 with built in HART communicator	Appliance	pcs.	11
52	Temperature calibrator RTC-156 B or equivalent	Appliance	pcs.	9
53	Inotech iTF6500-1-A-1pcs. measuring range is from 10 l/h to 16,000 m³/h.	Appliance	pcs.	6
54	Natural gas sampling device as per DSTU EN/ISO 10715	Appliance	pcs.	9
55	Laboratory fume hood	Appliance	pcs.	4
56	Metering unit ПК-В execution type 1 (ΔP=0÷63 kPa; ±0.075%; P=0.1÷0.7 MPa; ±0.075%) with 5-valve stainless steel manifold and with resistance thermocouple ПТ-1-Д-О3 (RS485) (T = –40 ÷ +70 °C; ±0.3°C; class A)	Appliance	pcs.	3
57	Absolute and differential pressure transmitter ПД-1-ДА (HART) (ΔP=0÷63 kPa; ±0.075%; P=0.1÷0.7 MPa; ±0.075%) with 5-valve stainless steel manifold and with resistance thermocouple ТСП Pt100 Т-002 (T = –40 ÷ +70 °C; ±0.3°C; class A)	Appliance	pcs.	4
58	Absolute pressure transmitter ПД-1-А (HART) (P=0.1-0.7 MPa; ±0.075%) with 2-valve stainless steel manifold	Appliance	pcs.	4

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59	Temperature-measuring transducer ПТ-1-Д-01 (HART) (T = –40 ÷ +70 °C; ±0.3°C; class A)	Appliance	pcs.	7
60	Power supply source ДЖІ 12/3	Appliance	pcs.	35
61	Power supply controller КДЖ-1	Appliance	pcs.	9
62	Intrinsically safe barrier БІ-4	Appliance	pcs.	10
63	Intrinsically safe barrier БІ-3	Appliance	pcs.	5
64	Intrinsically safe barrier БІ-7	Appliance	pcs.	25
65	Initiative interface converter with built-in GSM/GPRS modem	Appliance	pcs.	37
66	Shielded signal cable UNITRONIC LiYCY 4*0.25 mm2	Appliance	m	400
67	Automobile RENAULT DUSTER	Appliance	pcs.	7
68	Automobile RENAULT EXPRESS	Appliance	pcs.	17
69	Leak detector SNOOPER mini H	Appliance	pcs.	17
70	Wiring closet for ВОГ-III-Ф-1Л-50 gas metering unit	Appliance	pcs.	6
71	Wiring closet for ВОГ-III-Ф-1Л-80 gas metering unit	Appliance	pcs.	7
72	Wiring closet for ВОГ-III-Ф-1Л-100 gas metering unit	Appliance	pcs.	6
73	Wiring closet for ВОГ-III-Ф-1Л-150 gas metering unit	Appliance	pcs.	2
74	Rotor gas meter DELTA Comp (DN 50, G40, 1:200)	Appliance	pcs.	5
75	Calibrator of household gas meters Inotech iTF10-18-A-EC (iTF10-12-A-EC)	Appliance	pcs.	8
76	Freight minivan Peugeot Boxer	Appliance	pcs.	3
77	All-in-one PCs ASUS model V222FAK-WA030M White	Appliance	pcs.	45
78	Automated leak test bench for industrial gas meters ALTB-18(CH)	Appliance	pcs.	1
79	Automobile Fiat Doblo	Appliance	pcs.	63
80	For the exchange fund. Household gas meter Metrix G10, 250mm, G2"	Appliance	pcs.	100
81	Household gas meter ITRON G10, DN40	Appliance	pcs.	25
82	Household gas meter ITRON G25, DN40	Appliance	pcs.	5
83	Household gas meter ITRON G40, DN40	Appliance	pcs.	5
84	Household gas meter ITRON G10, DN50	Appliance	pcs.	25
85	Household gas meter ITRON G25, DN50	Appliance	pcs.	25
86	Household gas meter ITRON G40, DN50	Appliance	pcs.	5
87	Welding station	Appliance	pcs.	26
88	Gasoline generator Konner&Sohnen KS 10000E ATS, 7.5 kW, 50Hz, 12V, 8.3 A	Appliance	pcs.	26
89	Battery-powered disk grinder + charger.	Appliance	pcs.	52
90	Column set analyser for natural gas compositional analysis ARNEL 2003 based on gas chromatograph PerkinElmer Clarus 690	Appliance	pcs.	18
91	Chromatographical unit for sour sulphur test (ARNEL4125 Analyser for trace amounts of sulphur compounds in gaseous samples based on GC Clarus 690 (PerkinElmer) in combination with a PFPD detector according to ASTM D6228, D5504, ISO19739)	Appliance	pcs.	20
92	Natural gas odour intensity reader	Appliance	pcs.	21
93	Kit for determination of mechanical impurities in natural gas ІМП'ЮМЕРА-10	Appliance	pcs.	21
94	Portable dew-point hygrometer MDM300 I.S.	Appliance	pcs.	21
95	Hygrometer to determine water and hydrocarbon dew-point temperature of natural gas (ТОРОС 3-2 ВУ або ФОГ-3Г)	Appliance	pcs.	17
96	Two-valve gas sampling bottle (with two needle closing valves), V = 2 dm3	Appliance	pcs.	42
97	Two-valve gas sampling bottle (with two needle closing valves), V = 4 dm3	Pressure vessels	pcs.	42
98	Gas extraction bag, multilayer aluminium, 2 l, ПП double taps, 200 pcs/bag	Pressure vessels	pcs.	26
99	Automatic on-stream gas chromatograph for natural gas compositional analysis	Appliance	pcs.	77
100	Smart gas meter RSE/1,2 LA G2,5 TM Pietro Fiorentini (or equivalent) Outlet centre-to-centre spacing: 110 mm. Connection type: threaded 1 1/4.	Appliance	pcs.	97152,3
101	Smart gas meter RSE/1,2 LA G4 TM Pietro Fiorentini (or equivalent) Outlet centre-to-centre spacing: 110 mm. Connection type: threaded 1 1/4.	Appliance	pcs.	152667,9
102	Smart gas meter RSE/1,2 LA G6 TM Pietro Fiorentini (or equivalent) Outlet centre-to-centre spacing: 250 mm. Connection type: threaded 1 1/4.	Appliance	pcs.	27757,8
103	Gas alarm, methane leak detector (SNOOPER mini, or equivalent)	Appliance	pcs.	3774
104	Gas analyser EX-TEC HS 680 (with the ability to detect gas components)	Appliance	pcs.	810
105	Trace detectors (Radiodetection, Спрут-17, or equivalent)	Appliance	pcs.	810
106	Laser Flacon methane detector LM1Z06N-FLA	Appliance	pcs.	21
107	Laser Methane Smart detector LM2B03E-SBA	Appliance	pcs.	420
108	Diesel-powered welding machine Mosa TS 2×280 EVO MULTI4, 15kW, or equivalent	Tool	pcs.	65
109	Welding machines for butt welding of PE pipes up to D-300, with a set of liners (GF or equivalent)	Tool	pcs.	21
110	Welding machines for butt welding of PE pipes up to D-500, with a set of liners (GF or equivalent)	Tool	pcs.	14
111	Combined welding machines, fuel type Gasoline, 200A, 6 kW	Tool	pcs.	111
112	Mobile lighting unit with a generator on the mast	Tool	pcs.	111
113	Software suite for energy consumption and energy efficiency monitoring	Software	pcs.	22
114	Software suite for corrosion protection system monitoring and control	Software	pcs.	22
115	Mini-Stop System DN20-DN50mm	Tool	pcs.	111
116	Stop system for work with DN50-DN150 gas pipelines	Tool	pcs.	21
117	Stop system for work with DN200-DN300 gas pipelines	Tool	pcs.	14
118	Multifunctional mobile trailer for construction and installation work with a set of hydraulic and welding equipment for emergency repairs	Tool	pcs.	134
119	Specialised emergency vehicles (maximum configuration) Chassis configuration 4x4, cargo-and-passenger van (all-metal) L3H2, number of seats - at least 4, must comply with DSTU 3849:2018 approved by Order of SE "UkrNDNC" No. 81 dated 22 March 2018 and complete with equipment and tools.	Special vehicles	pcs.	231
120	Specialised emergency vehicles (maximum configuration) Chassis configuration 4x4, cargo-and-passenger van (all-metal) L1H1, number of seats - at least 4, must comply with DSTU 3849:2018 approved by Order of SE "UkrNDNC" No. 81 dated 22 March 2018 and complete with equipment and tools.	Special vehicles	pcs.	362
121	Backhoe loader Transport length, not more than - 6000 mm Transport height, not more than - 3850 mm ROPS/FOPS equipped cab Dig depth, at least - 4200 mm Full operation weight, at least - 8,100 kg	Special vehicles	pcs.	233
122	Wheeled excavator	Special vehicles	pcs.	9
123	Mini excavator Boom length, at least - 1800 mm Max dig depth, at least - 2270 mm Full weight, not more than - 2,500 kg	Special vehicles	pcs.	81

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124	Carriage for transporting special vehicles Lifting capacity, at least - 4,000 kg	Special vehicles	pcs.	69
125	Specialised emergency vehicles (emergency repair gas-fuelled vehicle) Double cab Chassis configuration - 4x2	Special vehicles	pcs.	173
126	Aerial lift truck Chassis configuration - 4x2 (or 6x4) Number of seats at least 5 seats Working lifting height, m - 20 m Carrying capacity of the cradle, kg - at least 250	Special vehicles	pcs.	21
127	Truck crane Chassis configuration - 4x2 (or 6x4) Operating height – at least 32 m; Lifting capacity, kg, at least – 16,000	Special vehicles	pcs.	24
128	Vacuum truck Chassis configuration - 4x2 Tank capacity, m3 - 5	Special vehicles	pcs.	12
129	Flatbed lorry (with articulating crane) Chassis configuration - 4x2 (or 6x4) Car's lifting capacity, kg - not more than 12,000 Articulating crane boom reach, m - at least 7.5 Articulating crane's lifting capacity, kg - at least 5,000, at max boom reach - at least 1,500	Special vehicles	pcs.	44
130	Telescopic loader Maximum lifting height, at least - 7000 mm Maximum lifting capacity, at least - 3,600 kg	Special vehicles	pcs.	19
131	Freight truck Overall dimensions (LxWxH), mm, at least - 5800x2500x3465 Axle spacing, mm, at least - 3600 Front axle load, kg, not more than - 8,000 Rear axle load, kg, not more than - 11,500	Vehicles	pcs.	18
132	Flatbed semi-trailer Length, at least - 12 m Lifting capacity, not more than - 25,000 kg	Trailer	pcs.	16
133	Low loader for carrying special vehicles Platform length, mm, not more than - 12500 Platform width, mm, not more than - 2600 Lifting capacity, kg, not more than - 25,000	Trailer	pcs.	8
134	Fork loader Maximum lifting height, at least - 4500 mm Load weight, at least - 2,000 kg	Special vehicles	pcs.	19
135	Drilling rig (diameter – 300 mm, depth – 20 m)	Special vehicles	pcs.	20
136	Additional equipment for backhoe loader (auger flight and cutter)	Special vehicles	pcs.	51
137	Car (premium class) Chassis configuration - 4x2 Number of seats (including driver) - 5 Overall dimensions (LxWxH), mm, at least - 4880x1835x1450	Vehicles	pcs.	196
138	Car (mid-range) Chassis configuration - 4x2 Number of seats (including driver) - 5 Overall dimensions (LxWxH), mm, not more than - 4650x1770x1450	Vehicles	pcs.	566
139	Light passenger van Chassis configuration - 4x2 Number of seats (including driver) - 5 Overall dimensions (LxWxH), mm, not more than - 5000x2200x2000	Vehicles	pcs.	965
140	Light cargo-and-passenger van Chassis configuration - 4x2 Number of seats (including driver) - 3 Overall dimensions (LxWxH), mm, not more than - 5000x2200x2000	Vehicles	pcs.	836
141	Flatbed truck (double-cab) Chassis configuration - 4x2 Load bed length, m - at least 4 Lifting capacity, kg - at least 2,500	Special vehicles	pcs.	581
142	Cargo-and-passenger van Chassis configuration - 4x2 Overall dimensions, as per standard - L1H1 Number of seats - 5 (including driver)	Van	pcs.	866
143	Cargo van Chassis configuration - 4x2 Overall dimensions, as per standard - L1H1 Number of seats - 5 (including driver)	Van	pcs.	27
144	Cargo van Chassis configuration - 4x2 Overall dimensions, as per standard - L2H2 Number of seats - 5 (including driver)	Van	pcs.	73
145	Cargo van Chassis configuration - 4x2 Overall dimensions, as per standard - L3H2 Number of seats - 5 (including driver) Cargo-and-passenger van (all metal)	Van	pcs.	78
146	Mobile laboratories with Gazomat or equivalent gas leak detectors Automobile-mounted Body type - pick-up truck; Chassis configuration 4x4, number of seats - 5	Special vehicles	pcs.	20
147	Minibus Number of seats (excl. driver), not more than - 15	Bus	pcs.	14
148	Minibus Number of seats (excl. driver), not more than - 20	Bus	pcs.	142
149	Bus Number of seats (excl. driver), at least - 40	Bus	pcs.	31
150	Flatbed truck Lifting capacity, not more than - 10,000 kg	Vehicles	pcs.	53
151	Dump truck Chassis configuration - 4x2 Lifting capacity, kg - not more than 9,000	Special vehicles	pcs.	76
152	Containerized battery energy storage system 645kWh (BESS) (00601 Czechia), 500kW (power) + 645kWh (battery capacity).	Power sources	pcs.	2

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153	Containerized battery energy storage system 860kWh (BESS) (00601 Czechia), 500kW (power) + 860kWh (battery capacity),	Power sources	pcs.	3
154	Containerized battery energy storage system 1075kWh (BESS) (00601 Czechia), 500kW (power) + 1075kWh (battery capacity),	Power sources	pcs.	2
155	Containerized battery energy storage system 100kWh (BESS) (00601 Czechia), 500kW (power) + 100kWh (battery capacity),	Power sources	pcs.	5
156	Containerized battery energy storage system 215kWh (BESS) (00601 Czechia), 500kW (power) + 215kWh (battery capacity),	Power sources	pcs.	3
157	Containerized battery energy storage system 430kWh (BESS) (00601 Czechia), 500kW (power) + 430kWh (battery capacity),	Power sources	pcs.	12
158	Gas power station GENERAC SG 275	Power sources	pcs.	37
159	Energy storage device ZBP45-60, 400/230V,	Power sources	pcs.	5
160	Cogeneration unit Sokratherm CHP Unit GG 50	Power sources	pcs.	1
161	ROSEN RoGeo Service Suite In-line Inspection Services for Deformation, Geometry and Mapping, In-line Inspection Services for Deformation, Geometry and Mapping range from 8" to 18"	Survey equipment	pcs.	2
162	ROSEN Pipeline Cleaning Services, Diameter range from 6" to 18"	Equipment	pcs.	2
163	Augmented reality system Trimble SiteVision	Survey equipment	pcs.	22
164	Kit of GNSS Trimble R2 receiver + Trimble Slate Controller + land mark	Survey equipment	pcs.	22
165	Video camera Insta360 One X3 (CINSAAQ/B)	Survey equipment	pcs.	2
166	Interactive panel Vestel IFD75T643/A3	dispatch control	pcs.	3
167	Software suite SIMONE	monitoring analysis	pcs.	64
168	AVEVA software suite, main telemetry data analysis centre minimum list of modules (sub-modules): ENTERPRISE VISUALIZATION (Unified Operations Center for Midstream) OPERATIONS OPTIMIZATION (Measurement Advisor, Pipeline Operations) SUPPLY CHAIN (Volumetr Accounting, ASSET PERFORMANCE, Asset Performance Management) DATA SHARING (Data Hub) OPERATIONS INFORMATION (PI Server)	telemetry dispatch control	pcs.	1
169	AVEVA software suite, regional (branch) telemetry data analysis centre minimum list of modules (sub-modules): OPERATIONS OPTIMIZATION (Measurement Advisor, Pipeline Operations) SUPPLY CHAIN (Volumetr Accounting) ASSET PERFORMANCE (Asset Performance Management) DATA SHARING (Data Hub) OPERATIONS INFORMATION (PI Server) or (Enterprise SCADA, Enterprise SCADA DataAcquisition)	telemetry dispatch control	pcs.	21
170	Geoinformation and analytical system for managing the technical condition and integrity of the gas distribution system	telemetry dispatch control	pcs.	1
171	Telemechanics telemetry system server regional (branch) centre analytical centre	telemetry dispatch control	pcs.	22
172	Plotter HP DesignJet T630 24"	equipment	pcs.	22
173	Inverter type welding sets 200A	tool	pcs.	496
174	Inverter type welding sets 400A	tool	pcs.	248
175	Angle grinder, wheel diameter 180 mm, 2 kW	tool	pcs.	2480
176	Angle grinder, wheel diameter 230 mm, 3 kW	tool	pcs.	1240
177	Perforators Impact energy, 19 J Input power, 1,700 W	tool	pcs.	1240
178	Hydraulic power pack (Super aspid B (DOA) or equivalent)	tool	pcs.	248
179	Hydraulic drill (CD10 (Stanley) or equivalent)	tool	pcs.	248
180	Lightweight jack-hammer, CHV08 Stanley, or equivalent	tool	pcs.	248
181	Rotary saw COV10 Stanley, with blade for concrete, or equivalent	tool	pcs.	248
182	Stanley trolley for saws COV10	tool	pcs.	248
183	Impact driver IW12 (Stanley)	tool	pcs.	248

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