

Data: 24.02.2025

ACT de predare-primire nr.24/02/25

Compania «ENEERS», SRL, cu sediul în Republica Moldova, mun.Chișinău, str. Sucevița, nr. 36/5, ap. 26, reprezentată de dl **Prisăcaru Nicolae**, Administrator, denumită în continuare „**Executant**”, pe de o parte,

și

«**Programul Națiunilor Unite pentru Dezvoltare în Moldova**», cu sediul în Republica Moldova, mun.Chișinău, str. 31 August 1989, nr. 131, reprezentat de dl **Alexandru Pelivan**, Manager Program EU4Moldova: Regiuni-cheie, denumit în continuare „**Beneficiar**”, denumite în continuare „**Părți**”, au încheiat prezentul Act cu privire la următoarele:

- În conformitate cu prevederile Contractului nr. 10290101 din 21.10.2024, semnat urmare Invitației de participare la licitație ITB24/02890 din 04.07.2024 Development of Supervisory Control and Data Acquisition System in Ungheni Municipality, Executantul a efectuat lucrări de instalare, a furnizat și instalat echipamente și software pe adresa municipiul Ungheni, ÎM Apă-Canal Ungheni (la Dispecerat, stațiile WTP, PS 1-2, BPS 1-9, WWPS 1-4), în conformitate cu programul de lucrări și cu estimarea convenită de Părți, după cum urmează:

Item No	Description	Serial Number	UOM	Qty	Unit price, USD	Total price USD
SCHEDULE NO.1 - PLANT AND EQUIPMENT, INCLUDING MANDATORY SPARE PARTS						
1.	CENTRAL DISPATCH AND CONTROL OFFICE (DCO)					
1.1	Rack IT Enclosure incl. passive elements (accessories) Manufacturer: Toten Cabinets Model: G2.8842.9801 Specifications: Rack IT Enclosure 42U, 19" with dimensions: Width: 800mm; Height: 2000mm; Depth: 800mm(600mm)	N/A	set	1	845,00	845,00
1.2	Server Manufacturer: Supermicro Model: SYS-510P-WTR Specifications: Processor: Intel® Xeon® ICX 4310 2P 12C/24T 2.1G 18M 10.4GT. Memory: 2x 16GB DDR4-3200 ECC REG. SSD: 2x 240GB SATA 6Gb/s 2.5" 7.0mm <2DWPD. HDD: 2x 2.5"1.2TB, 10K RPM, SAS 12Gb/s, Cache 256MB. RAID: Broadcom 3008 8-port PCI-E SAS-3 controller 8-port (8 internal) 12Gb/s per port. Supports RAID 0, 1, 10. Network interface: 4x RJ45 (2x 10GbE + 2x 1GbE) + 1x RJ45 Dedicated IPMI Lan port. Operating System: - Windows Svr Std 2022 64Bit English - Office Home and Business 2024 Warranty – 36 months.	S/N: 815-R5X12	set	1	7 579,00	7 579,00
1.3	Network hardware (VPN Router, Ethernet Switch) Manufacturer: Mikrotik Model: RB4011iGS+5HacQ2HnD-IN	S/N: HGC09YER6W P/r2	set	1	328,90	328,90

Executant:



Beneficiar:



	Specifications: - 10/100/1000 Ethernet ports 10 - SFP+ ports 1					
1.4	Uninterruptible power supply UPS Manufacturer: Eaton Model: 5SC 3000i Specifications: - Power: 3000 VA, 2700 W, - Input: C20, Outputs: (8) C13, (1) C19, - Rack/tower, 2U - WEB/SNMP connectivity device - Gigabit Network Card M3 - USB port (HID compliant) - Serial port (RS232) - Mini-terminal block for remote On/Off and Remote Power Off	S/N: P464M28FJP	set	1	2 616,90	2 616,90
1.5	Operator Workstation Manufacturer: Supermicro Model: SYS-531A-IL Specifications: Processor: CPU Intel Core i5-12400F 2.5- 4.4GHz (6P+0E/12T,18MB, S1700, 10nm, No Integ.Gr, 65W) Memory: 16GB (Kit of 2*8GB) DDR5-5200 Kingston FURY® Beast DDR5, PC41600 SSD 1: M.2 NVMe SSD 250GB Samsung 980 PCIe 3.0 x4 / SSD 2: M.2 NVMe SSD 500GB Kingston Fury Renegade, w/ Video Card: NVMe / GPU-NVQT400-4EU NVIDIA PNY Quadro T400 4GB GDDR6 PCIe3.0-Active Cooling DVD-RW Drive: Drive ASUS "DRW-24D5MT" (SATA) Monitors: 3x 27.0" HP IPS LED E27q G5 Borderless Black/Silver (4ms, 1500:1, 350cd, 2560x1440, 178°/178°, 1 x HDMI, DisplayPort, Height Adjustment, Pivot, VESA). Keyboard & Mouse: Logitech Wireless Combo MK235, Keyboard & Mouse, USB, US/RU. UPS: UPS Eaton 5E1000i USB 1100VA/660W Line Interactive, AVR, RJ11/RJ45, USB, 6*IEC-320-C13 Laser printer: Printer Canon i- Sensys LBP631CW Operating System: - Windows 11 Pro 64Bit Eng Intl 1pk DSP OEI DVD / - Office Home and Business 2024 Medialess	S/N: A495979X4B09 874	set	1	4 910,10	4 910,10
1.6	SCADA Software for server - SIMATIC WinCC Unified V19 PC Engineering 10k PowerTags - SIMATIC WinCC Unified V19 PC Runtime 5k PowerTags - SIMATIC WinCC Unified Logging, 5000 LoggingTags - SIMATIC WinCC Unified V19 Report Execution - SIMATIC WinCC Unified V19 audit basis	S/N: VPSN15115111 63 VPS81535661 VPSO1541113 VPSN1535192 VPSN1532304	set	1	11 785,76	11 785,76
1.7	SCADA Software for Operator Workstation - SIMATIC WinCC Unified Client, 3 Operate Clients - SIMATIC STEP 7 Basic V19	S/N: VPSD1503639 VPSN1536134	set	1	6 768,82	6 768,82

Executant:



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2.	STATIONS					
2.1	<p>Local Data Acquisition and Control Equipment for PS-1 (Stația de Pompare Treapta I)</p> <p><u>Switchboards:</u> Manufacturer: Eneers Type: Tablou de monitorizare PS-1</p> <p><u>Measurement equipment:</u> Pressure transmitter Manufacturer: Danfoss Type: MBS Series Q-ty: 4 Specifications: - Pressure range: 0-10 bar, 0-16 bar - Output current: 4-20mA - Accuracy: 0.5% - Sensor operating temperature: -40 – 85 °C - Protection degree: IP67 - In set with pressure shocks absorber</p> <p>Water detection sensor Manufacturer: Vega Type: Vegapoint 21 Q-ty: 2 Specifications: - Type: Capacitive level switch - Output signal: Transistor output PNP - Process fitting: Thread G1/2 - Pressure range: 0-16 bar, 0-10 bar - Process pressure: -1...25 bar - Process temperature: -20...+100 C - Operating voltage: 12...35V DC - Housing material: PEEK and stainless steel 316L - Electrical connection: M12x1 - Protection degree: IP67</p> <p>Open door sensor Manufacturer: Cashtec Electronics Type: PS8-30-0-PVNO Q-ty: 1 Specifications: - Range: 13÷18mm; Pswitch: 10W; 29x18.8x6.9mm</p> <p><u>Cables:</u> Power cables type: NYY-J Control cables type: YSLY (unshielded), YSLCY (shielded)</p>	<p>S/N: ENS88.00.00.10</p> <p>S/N: 054688938015, 054688950015, 054688940915, 054688945415.</p> <p>S/N: 71566315, 71566311.</p> <p>N/A</p> <p>N/A</p>	set	1	7 493,09	7 493,09
2.2	<p>Local Data Acquisition and Control Equipment for PS-2 (Stația de Pompare Treapta II)</p> <p><u>Switchboards:</u> Manufacturer: Eneers Type: Tablou de monitorizare PS-2</p> <p><u>Measurement equipment:</u> Pressure transmitter Manufacturer: Danfoss Type: MBS Series Q-ty: 2 Specifications: - Pressure range: 0-10 bar, 0-16 bar - Output current: 4-20mA - Accuracy: 0.5% - Sensor operating temperature: -40 – 85 °C - Protection degree: IP67 - In set with pressure shocks absorber</p>	<p>S/N: ENS88.00.00.11</p> <p>S/N: 054688938515, 054688950515, 054688944315, 054688947815.</p>	set	1	7 778,02	7 778,02

Executant:



Beneficiar:



	<p>Open door sensor Manufacturer: Cashtec Electronics Type: PS8-30-0-PVNO Q-ty: 1 Specifications: - Range: 13÷18mm; Pswitch: 10W; 29x18.8x6.9mm</p> <p><u>Cables:</u> Power cables type: NYY-J Control cables type: YSLY (unshielded), YSLCY (shielded)</p>	N/A				
2.3	<p>Local Data Acquisition and Control Equipment for WTP (Stația de tratare)</p> <p><u>Measurement equipment:</u> pH sensor Manufacturer: Endress Hauser Type: Memosens CPS11E Q-ty: 1 Specifications: - Measuring principle: Potentiometric - Measuring range: pH 0...10 - Diameter: 12mm - Process temperature: -15 to 80 °C - Ingress protection: IP68</p> <p>pH sensor mounting accessories Manufacturer: Endress Hauser Type: Ecofit CPA640 Q-ty: 1 Specifications: - Suitable for all standard sensors with Pg 13.5 and 120 mm (4.72") length - Quick installation and removal thanks to threaded connection - Various seal materials for perfect adaptation to all kinds of processes - It is suitable to be used with pressures of up to 10 bar.</p> <p>Turbidity sensor Manufacturer: Endress Hauser Type: Turbimax CUS52D Q-ty: 2 Specifications: - Measuring principle: Four beam alternating light. Scattered light in 90°/135° and 4beam cross light - Material: Stainless steel 316L - Process temperature: -5 to 50 °C - Connection: G1</p> <p>Turbidity mounting accessories Manufacturer: Endress Hauser Type: CLEANFIT CUA451 Q-ty: 1 Specifications: - Process temperature: 0 to 85 °C (32 to 185 °F) - Process pressure: For manual assembly operation: max 2bar (29psi) - Medium pressure: max. 10bar (145psi)</p> <p>Turbidity mounting accessories Manufacturer: Endress Hauser Type: Flowfit CUA252 Q-ty: 1 Specifications: - Process temperature: 0 to 50°C - Process pressure: 0 to 6 bars</p>	S/N: X1079C05W00	set	1	23 706,63	23 706,63

Executant:



Beneficiar:



	<p>Flowmeter Manufacturer: Siemens Type: SITRANS FM MAG 5100 W Q-ty: 1 Specifications: - Flowmeter type: Electromagnetic flowmeter - Enclosure: IP67 - Medium temperature: -10 ... +70 °C - Measuring pipe: Stainless steel AISI304 - Electrode: Hastelloy C276 - Output: 4-20mA, pulse - DN100</p> <p>Open door sensor Manufacturer: Cashtec Electronics Type: PS8-30-0-PVNO Q-ty: 1 Specifications: - Range: 13÷18mm; Pswitch: 10W; 29x18.8x6.9mm</p> <p>Cables: Power cables type: NYY-J Control cables type: YSLY (unshielded), YSLCY (shielded)</p>	<p>S/N: N1SD130061</p> <p>N/A</p> <p>N/A</p>				
2.5	<p>Local Data Acquisition and Control Equipment for BPS-2 (str. Romană 26)</p> <p><u>Switchboards:</u> Manufacturer: Eneers Type: Tablou de monitorizare BPS-2</p> <p><u>Measurement equipment:</u> Pressure transmitter Manufacturer: Danfoss Type: MBS Series Q-ty: 2 Specifications: - Pressure range: 0-10 bar, 0-16 bar - Output current: 4-20mA - Accuracy: 0.5% - Sensor operating temperature: -40 – 85 °C - Protection degree: IP67 - In set with pressure shocks absorber</p> <p>Flowmeter Manufacturer: Siemens Type: SITRANS FM MAG 5100 W Q-ty: 1 Specifications: - Flowmeter type: Electromagnetic flowmeter - Enclosure: IP67 - Medium temperature: -10 ... +70 °C - Measuring pipe: Stainless steel AISI304 - Electrode: Hastelloy C276 - Output: 4-20mA, pulse - DN100</p> <p>Open door sensor Manufacturer: Cashtec Electronics Type: PS8-30-0-PVNO Q-ty: 1 Specifications: - Range: 13÷18mm; Pswitch: 10W; 29x18.8x6.9mm</p> <p>Cables: Power cables type: NYY-J Control cables type: YSLY (unshielded), YSLCY (shielded)</p>	<p>S/N: ENS88.00.00.02</p> <p>S/N: 054688880015 054688947015</p> <p>S/N: N1SD110051</p> <p>N/A</p> <p>N/A</p>	set	1	6 389,78	6 389,78

Executant:



Beneficiar:



2.6	<p>Local Data Acquisition and Control Equipment for BPS-3 (str. Romană 66)</p> <p><u>Switchboards:</u> Manufacturer: Eneers Type: Tablou de monitorizare BPS-3</p> <p><u>Measurement equipment:</u> Pressure transmitter Manufacturer: Danfoss Type: MBS Series Q-ty: 2 Specifications: - Pressure range: 0-10 bar, 0-16 bar - Output current: 4-20mA - Accuracy: 0.5% - Sensor operating temperature: -40 – 85 °C - Protection degree: IP67 - In set with pressure shocks absorber</p> <p>Flowmeter Manufacturer: Siemens Type: SITRANS FM MAG 5100 W Q-ty: 1 Specifications: - Flowmeter type: Electromagnetic flowmeter - Enclosure: IP67 - Medium temperature: -10 ... +70 °C - Measuring pipe: Stainless steel AISI304 - Electrode: Hastelloy C276 - Output: 4-20mA, pulse - DN50</p> <p>Open door sensor Manufacturer: Cashtec Electronics Type: PS8-30-0-PVNO Q-ty: 1 Specifications: - Range: 13÷18mm; Pswitch: 10W; 29x18.8x6.9mm</p> <p><u>Cables:</u> Power cables type: NYY-J Control cables type: YSLY (unshielded), YSLCY (shielded)</p>	<p>S/N: ENS88.00.00.03</p> <p>S/N: 054688921015 054688883015</p> <p>S/N: N1SD110063</p> <p>N/A</p> <p>N/A</p>	set	1	6 389,78	6 389,78
2.7	<p>Local Data Acquisition and Control Equipment for BPS-4 (str. Națională 33)</p> <p><u>Switchboards:</u> Manufacturer: Eneers Type: Tablou de monitorizare BPS-4</p> <p><u>Measurement equipment:</u> Pressure transmitter Manufacturer: Danfoss Type: MBS Series Q-ty: 2 Specifications: - Pressure range: 0-10 bar, 0-16 bar - Output current: 4-20mA - Accuracy: 0.5% - Sensor operating temperature: -40 – 85 °C - Protection degree: IP67 - In set with pressure shocks absorber</p> <p>Flowmeter Manufacturer: Siemens Type: SITRANS FM MAG 5100 W Q-ty: 1 Specifications:</p>	<p>S/N: ENS88.00.00.04</p> <p>S/N: 054688893015 054688894545</p> <p>S/N: N1SD110064</p>	set	1	6 348,23	6 348,23

Executant:



Beneficiar:



	<ul style="list-style-type: none"> - Flowmeter type: Electromagnetic flowmeter - Enclosure: IP67 - Medium temperature: -10 ... +70 °C - Measuring pipe: Stainless steel AISI304 - Electrode: Hastelloy C276 - Output: 4-20mA, pulse - DN50 <p>Open door sensor Manufacturer: Cashtec Electronics Type: PS8-30-0-PVNO Q-ty: 1 Specifications: - Range: 13÷18mm; Pswitch: 10W; 29x18.8x6.9mm</p> <p><u>Cables:</u> Power cables type: NYY-J Control cables type: YSLY (unshielded), YSLCY (shielded)</p>	N/A				
2.8	<p>Local Data Acquisition and Control Equipment for BPS-5 (str. Romană 112)</p> <p><u>Switchboards:</u> Manufacturer: Eneers Type: Tablou de monitorizare BPS-5</p> <p><u>Measurement equipment:</u> Pressure transmitter Manufacturer: Danfoss Type: MBS Series Q-ty: 2 Specifications: - Pressure range: 0-10 bar, 0-16 bar - Output current: 4-20mA - Accuracy: 0.5% - Sensor operating temperature: -40 – 85 °C - Protection degree: IP67 - In set with pressure shocks absorber</p> <p>Flowmeter Manufacturer: Siemens Type: SITRANS FM MAG 5100 W Q-ty: 1 Specifications: - Flowmeter type: Electromagnetic flowmeter - Enclosure: IP67 - Medium temperature: -10 ... +70 °C - Measuring pipe: Stainless steel AISI304 - Electrode: Hastelloy C276 - Output: 4-20mA, pulse - DN100</p> <p>Open door sensor Manufacturer: Cashtec Electronics Type: PS8-30-0-PVNO Q-ty: 1 Specifications: - Range: 13÷18mm; Pswitch: 10W; 29x18.8x6.9mm</p> <p><u>Cables:</u> Power cables type: NYY-J Control cables type: YSLY (unshielded), YSLCY (shielded)</p>	<p>S/N: ENS88.00.00.05</p> <p>S/N: 054688920015 054688914015</p> <p>S/N: NISD110105</p> <p>N/A</p> <p>N/A</p>	set	1	6 389,78	6 389,78
2.9	<p>Local Data Acquisition and Control Equipment for BPS-6 (str. Ungureanu 9)</p> <p><u>Switchboards:</u> Manufacturer: Eneers Type: Tablou de monitorizare BPS-6</p>	<p>S/N: ENS88.00.00.06</p>	set	1	6 389,78	6 389,78

Executant:



Beneficiar:



	<p><u>Measurement equipment:</u> Pressure transmitter Manufacturer: Danfoss Type: MBS Series Q-ty: 2 Specifications: - Pressure range: 0-10 bar, 0-16 bar - Output current: 4-20mA - Accuracy: 0.5% - Sensor operating temperature: -40 – 85 °C - Protection degree: IP67 - In set with pressure shocks absorber</p> <p>Flowmeter Manufacturer: Siemens Type: SITRANS FM MAG 5100 W Q-ty: 1 Specifications: - Flowmeter type: Electromagnetic flowmeter - Enclosure: IP67 - Medium temperature: -10 ... +70 °C - Measuring pipe: Stainless stell AISI304 - Electrode: Hastelloy C276 - Output: 4-20mA, pulse - DN100</p> <p>Open door sensor Manufacturer: Cashtec Electronics Type: PS8-30-0-PVNO Q-ty: 1 Specifications: - Range: 13÷18mm; Pswitch: 10W; 29x18.8x6.9mm</p> <p><u>Cables:</u> Power cables type: NYY-J Control cables type: YSLY (unshielded), YSLCY (shielded)</p>	<p>S/N: 054688879015 054688918015</p> <p>S/N: N1SD110006</p> <p>N/A</p> <p>N/A</p>				
2.10	<p>Local Data Acquisition and Control Equipment for BPS-7 (str. Cristiuic 11)</p> <p><u>Switchboards:</u> Manufacturer: Eneers Type: Tablou de monitorizare BPS-7</p> <p><u>Measurement equipment:</u> Pressure transmitter Manufacturer: Danfoss Type: MBS Series Q-ty: 2 Specifications: - Pressure range: 0-10 bar, 0-16 bar - Output current: 4-20mA - Accuracy: 0.5% - Sensor operating temperature: -40 – 85 °C - Protection degree: IP67 - In set with pressure shocks absorber</p> <p>Flowmeter Manufacturer: Siemens Type: SITRANS FM MAG 5100 W Q-ty: 1 Specifications: - Flowmeter type: Electromagnetic flowmeter - Enclosure: IP67 - Medium temperature: -10 ... +70 °C - Measuring pipe: Stainless stell AISI304 - Electrode: Hastelloy C276 - Output: 4-20mA, pulse - DN100</p>	<p>S/N: ENS88.00.00.07</p> <p>S/N: 054688891015 054688891015</p> <p>S/N: N1SD110094</p>	set	1	6 513,13	6 513,13

Executant:



Beneficiar:



	<p>Open door sensor Manufacturer: Cashtec Electronics Type: PS8-30-0-PVNO Q-ty: 1 Specifications: - Range: 13÷18mm; Pswitch: 10W; 29x18.8x6.9mm</p> <p><u>Cables:</u> Power cables type: NYY-J Control cables type: YSLY (unshielded), YSLCY (shielded)</p>	N/A				
2.11	<p>Local Data Acquisition and Control Equipment for BPS-8 (str. Boico 5-7)</p> <p><u>Switchboards:</u> Manufacturer: Eneers Type: Tablou de monitorizare BPS-8</p> <p><u>Measurement equipment:</u> Pressure transmitter Manufacturer: Danfoss Type: MBS Series Q-ty: 2 Specifications: - Pressure range: 0-10 bar, 0-16 bar - Output current: 4-20mA - Accuracy: 0.5% - Sensor operating temperature: -40 – 85 °C - Protection degree: IP67 - In set with pressure shocks absorber</p> <p>Flowmeter Manufacturer: Siemens Type: SITRANS FM MAG 5100 W Q-ty: 1 Specifications: - Flowmeter type: Electromagnetic flowmeter - Enclosure: IP67 - Medium temperature: -10 ... +70 °C - Measuring pipe: Stainless stell AISI304 - Electrode: Hastelloy C276 - Output: 4-20mA, pulse - DN100</p> <p>Open door sensor Manufacturer: Cashtec Electronics Type: PS8-30-0-PVNO Q-ty: 1 Specifications: - Range: 13÷18mm; Pswitch: 10W; 29x18.8x6.9mm</p> <p><u>Cables:</u> Power cables type: NYY-J Control cables type: YSLY (unshielded), YSLCY (shielded)</p>	<p>S/N: ENS88.00.00.08</p> <p>S/N: 054688897015 054688897021</p> <p>S/N: N1SD130072</p> <p>N/A</p> <p>N/A</p>	set	1	6 513,13	6 513,13
2.12	<p>Local Data Acquisition and Control Equipment for BPS-9 (str. Porumbescu 3)</p> <p><u>Switchboards:</u> Manufacturer: Eneers Type: Tablou de monitorizare BPS-9</p> <p><u>Measurement equipment:</u> Pressure transmitter Manufacturer: Danfoss Type: MBS Series Q-ty: 2 Specifications: - Pressure range: 0-10 bar, 0-16 bar</p>	<p>S/N: ENS88.00.00.09</p> <p>S/N: 054688935015 054688909015</p>	set	1	6 339,46	6 339,46

Executant:



Beneficiar:



	<ul style="list-style-type: none"> - Output current: 4-20mA - Accuracy: 0.5% - Sensor operating temperature: -40 – 85 °C - Protection degree: IP67 - In set with pressure shocks absorber <p>Flowmeter Manufacturer: Siemens Type: SITRANS FM MAG 5100 W Q-ty: 1 Specifications: <ul style="list-style-type: none"> - Flowmeter type: Electromagnetic flowmeter - Enclosure: IP67 - Medium temperature: -10 ... +70 °C - Measuring pipe: Stainless steel AISI304 - Electrode: Hastelloy C276 - Output: 4-20mA, pulse - DN50 </p> <p>Open door sensor Manufacturer: Cashtec Electronics Type: PS8-30-0-PVNO Q-ty: 1 Specifications: <ul style="list-style-type: none"> - Range: 13÷18mm; Pswitch: 10W; 29x18.8x6.9mm </p> <p><u>Cables:</u> Power cables type: NYY-J Control cables type: YSLY (unshielded), YSLCY (shielded)</p>	S/N: N1SD130077				
2.13	<p>Local Data Acquisition and Control Equipment for WWPS-1 (SPAU-1) – (str. Tereza Sobolevschi)</p> <p><u>Switchboards:</u> Manufacturer: Eneers Type: Tablou de monitorizare WWPS-1</p> <p><u>Measurement equipment:</u> Float level sensor: Manufacturer: Nivelco Type: Nivofloat NLN 105 1 Q-ty: 3 Specifications: <ul style="list-style-type: none"> - Process temperature: 0...+50 C - Process pressure: max. 2 bar - Output: Switching rating: 250 V AC, 10 (3) A - Ingress protection: IP68 </p> <p>Open door sensor Manufacturer: Cashtec Electronics Type: PS8-30-0-PVNO Q-ty: 1 Specifications: <ul style="list-style-type: none"> - Range: 13÷18mm; Pswitch: 10W; 29x18.8x6.9mm </p> <p><u>Cables:</u> Power cables type: NYY-J Control cables type: YSLY (unshielded), YSLCY (shielded)</p>	S/N: ENS88.00.00.12	set	1	4 090,09	4 090,09
2.14	<p>Local Data Acquisition and Control Equipment for WWPS-2 (SPAU-2) – (str. Cetireni)</p> <p><u>Switchboards:</u> Manufacturer: Eneers Type: Tablou de monitorizare WWPS-2</p> <p><u>Measurement equipment:</u> Float level sensor: Manufacturer: Nivelco</p>	S/N: ENS88.00.00.13	set	1	4 090,09	4 090,09

Executant:



Beneficiar:



	<p>Type: Nivofloat NLN 105 1 Q-ty: 3 Specifications: - Process temperature: 0...+50 C - Process pressure: max. 2 bar - Output: Switching rating: 250 V AC, 10 (3) A - Ingress protection: IP68</p> <p>Open door sensor Manufacturer: Cashtec Electronics Type: PS8-30-0-PVNO Q-ty: 1 Specifications: - Range: 13÷18mm; Pswitch: 10W; 29x18.8x6.9mm</p> <p><u>Cables:</u> Power cables type: NYY-J Control cables type: YSLY (unshielded), YSLCY (shielded)</p>	N/A				
2.15	<p>Local Data Acquisition and Control Equipment for WWPS-3 (SPAU-3) – (str. Ion Neculce)</p> <p><u>Switchboards:</u> Manufacturer: Eneers Type: Tablou de monitorizare WWPS-3</p> <p><u>Measurement equipment:</u> Float level sensor: Manufacturer: Nivelco Type: Nivofloat NLN 105 1 Q-ty: 3 Specifications: - Process temperature: 0...+50 C - Process pressure: max. 2 bar - Output: Switching rating: 250 V AC, 10 (3) A - Ingress protection: IP68</p> <p>Open door sensor Manufacturer: Cashtec Electronics Type: PS8-30-0-PVNO Q-ty: 1 Specifications: - Range: 13÷18mm; Pswitch: 10W; 29x18.8x6.9mm</p> <p><u>Cables:</u> Power cables type: NYY-J Control cables type: YSLY (unshielded), YSLCY (shielded)</p>	<p>S/N: ENS88.00.00.14</p> <p>N/A</p> <p>N/A</p>	set	1	4 090,09	4 090,09
2.16	<p>Local Data Acquisition and Control Equipment for WWPS-4 (str. Ungureanu 15)</p> <p><u>Switchboards:</u> Manufacturer: Eneers Type: Tablou de monitorizare WWPS-4</p> <p><u>Measurement equipment:</u> Float level sensor: Manufacturer: Nivelco Type: Nivofloat NLN 105 1 Q-ty: 3 Specifications: - Process temperature: 0...+50 C - Process pressure: max. 2 bar - Output: Switching rating: 250 V AC, 10 (3) A - Ingress protection: IP68</p> <p>Open door sensor Manufacturer: Cashtec Electronics Type: PS8-30-0-PVNO Q-ty: 1</p>	<p>S/N: ENS88.00.00.15</p> <p>N/A</p> <p>N/A</p>	set	1	4 090,09	4 090,09

Executant:



Beneficiar:



	<p>Specifications: - Range: 13÷18mm; Pswitch: 10W; 29x18.8x6.9mm</p> <p>Cables: Power cables type: NYY-J Control cables type: YSLY (unshielded), YSLCY (shielded)</p>	N/A				
3.	MANDATORY SPARE PARTS					
3.1	<p>PLC + DI + AI (Programmable logic controller + digital input module + analogic input module)</p> <p>PLC Manufacturer: Siemens Type: SIMATIC S7-1200, CPU 1214C Q-ty: 1 Specifications: - Supply voltage: 24VDC - Discrete I/O number: 24 - Memory capacity: 150 KB system memory RAM - Data backed up: 4 MB built-in flash memory backup of user programs - Execution time for 1 K Instruction: - 0.08 µs event and periodic task - 1.7 µs other instruction - Integrated connection type: - Non isolated serial link serial 9-pole D-sub RS422/RS485 - Ethernet RJ45 - Expansion modules type S7-1200</p> <p>PLC Module 16 DI Manufacturer: Siemens Type: Digital input SM 1221, 16 DI Q-ty: 1 Specifications: 24 V DC, Sink/Source</p> <p>PLC Module 4 AI Manufacturer: Siemens Type: Analog input, SM 1231, 4 AI Q-ty: 1 Specifications: - 4 AI, +/-10 V, +/-5 V, +/-2.5 V, or 0-20 mA/4-20 mA, 12 bit+sign (13 bit)</p>	<p>S/N: C-SNA0TAC1</p> <p>S/N: C-SDA04GAW</p> <p>S/N: C-SNA0C1L5</p>	set	1	908,50	908,50
3.2	<p>Pressure transmitter Manufacturer: Danfoss Type: MBS Series Q-ty: 2 Specifications: - Pressure range: 0-10 bar, 0-16 bar - Output current: 4-20mA - Accuracy: 0.5% - Sensor operating temperature: -40 – 85 °C - Protection degree: IP67</p>	<p>S/N: 054688943015, 054688892015</p>	pcs	2	178,25	356,50

SCHEDULE NO.2 - INSTALLATION AND OTHER SERVICES

Item No	Minimum requirements		Unit	Quantity	Unit price, USD (VAT 0%)	Total price (VAT 0%)
1.	CENTRAL DISPATCH AND CONTROL OFFICE (DCO)					
1.1	Detailed design of SCADA system to central DCO	N/A	Lump Sum	-	2 484,00	2 484,00
1.2	Detailed design of SCADA system at facilities	N/A	Lump Sum	-	4 968,00	4 968,00
1.3	Installation and development of SCADA Server software applications according to beneficiary requirements	N/A	Lump Sum	-	25 530,00	25 530,00

Executant:



Beneficiar:



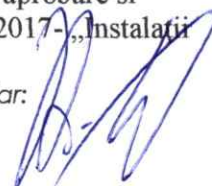
1.4	Installation of SCADA Server Equipment to Central DCO	N/A	Lump Sum	-	1 725,00	1 725,00
1.5	Installation of SCADA software for Operator and Engineer Workstation according to beneficiary requirements	N/A	Lump Sum	-	552,00	552,00
2.	STATIONS					
2.1	Local Data Acquisition and Control Equipment for PS-1 (Stația de Pompare Treapta I)	N/A	Lump Sum	-	2 428,80	2 428,80
2.2	Local Data Acquisition and Control Equipment for PS-2 (Stația de Pompare Treapta II)	N/A	Lump Sum	-	2 539,20	2 539,20
2.3	Local Data Acquisition and Control Equipment for WTP (Stația de tartare)	N/A	Lump Sum	-	3 643,20	3 643,20
2.4	Local Data Acquisition and Control Equipment for BPS-1 (Nicolae Iorga)	N/A	Lump Sum	-	1 876,80	1 876,80
2.5	Local Data Acquisition and Control Equipment for BPS-2 (Romană 26)	N/A	Lump Sum	-	1 876,80	1 876,80
2.6	Local Data Acquisition and Control Equipment for BPS-3 (Romană 66)	N/A	Lump Sum	-	1 876,80	1 876,80
2.7	Local Data Acquisition and Control Equipment for BPS-4 (Națională 33)	N/A	Lump Sum	-	1 876,80	1 876,80
2.8	Local Data Acquisition and Control Equipment for BPS-5 (Romană 112)	N/A	Lump Sum	-	1 876,80	1 876,80
2.9	Local Data Acquisition and Control Equipment for BPS-6 (Ungureanu 9)	N/A	Lump Sum	-	1 876,80	1 876,80
2.10	Local Data Acquisition and Control Equipment for BPS-7 (Cristiuc 11)	N/A	Lump Sum	-	1 876,80	1 876,80
2.11	Local Data Acquisition and Control Equipment for BPS-8 (Boico 5-7)	N/A	Lump Sum	-	1 876,80	1 876,80
2.12	Local Data Acquisition and Control Equipment for BPS-9 (Porumbescu 3)	N/A	Lump Sum	-	1 876,80	1 876,80
2.13	Local Data Acquisition and Control Equipment for WWPS-1 (SPAU-1) – (Tereza Sobolevschi)	N/A	Lump Sum	-	1 545,60	1 545,60
2.14	Local Data Acquisition and Control Equipment for WWPS-2 (SPAU-2) – (Cetireni)	N/A	Lump Sum	-	1 545,60	1 545,60
2.15	Local Data Acquisition and Control Equipment for WWPS-3 (SPAU-3) – (Ion Neculce)	N/A	Lump Sum	-	1 545,60	1 545,60
2.16	Local Data Acquisition and Control Equipment for WWPS-4 – (Ungureanu 15)	N/A	Lump Sum	-	1 545,60	1 545,60
3.	TRAINING					
3.1	Training	N/A	Lump Sum	-	2 127,50	2 127,50
					Total Price	218 171,74
					Transportation Price	Included in our offer
					Insurance Price	Included in our offer
					Installation Price	Included in our offer
					Training Price	Included in our offer
					Other Charges (specify)	-
					Total Final and All-inclusive Price	218 171,74

2. Lucrările sunt executate în întregime conform Legii nr. 163 din 09.07.2010 privind autorizarea executării lucrărilor de construcție, Regulamentelor CP L.01.12-2012/A1:2024; NCM A.01.06:2019/A:2024; NCM A. 07.02-2012 - Procedura de elaborare, avizare, aprobare și conținutul cadru a documentației de proiect pentru construcții; NCM G.02.01:2017-„Instalații

Executant:



Beneficiar:



electrice, de automatizare, semnalizare și telecomunicații Rețele (sisteme) de comunicații electronice, instalații de automatizare și semnalizare pentru clădiri și construcții Prevederi de bază pentru proiectare și montare”; NAIE - Normele pentru Amenajarea Instalațiilor Electrice.

3. Lucrările efectuate corespund în totalitate prevederilor Contractului și Specificațiilor Tehnice. Beneficiarul nu are nici o pretenție asupra calității serviciilor prestate și termenelor limită pentru îndeplinirea lucrărilor. Scrisoarea de confirmare din partea Primăriei mun. Ungheni, nr..... din data de 24.02.2025 se anexează.
4. Costul total al proiectului Dezvoltarea sistemului de supraveghere, control și achiziție de date (SCADA) în mun. Ungheni este de **218 171,74** dolari SUA (două sute optsprezece mii o sută șaptezeci și unu dolari SUA și 74 cenți), inclusiv TVA 0 %, ce constituie la cursul oficial ONU (18.681 – <https://treasury.un.org/operationalrates/OperationalRates.php#M>) la data transferului **4.075.666,27** MDL (patru milioane șaptezeci și cinci de mii șase sute șizeci și șase lei, 27 bani).
5. Prezentul Act intră în vigoare din momentul semnării.
6. Prezentul Act este întocmit în două exemplare având aceeași putere juridică, în limba română – câte unul pentru fiecare Parte.

Semnăturile Părților

Executant:		Beneficiar:
"ENEERS" SRL		UNDP MOLDOVA, Programul EU4Moldova: Regiuni-cheie
1018600051864	c/f	12626016
0610344	TVA	
MD91ML000000022513301669	IBAN	MD72AG000000022516273472
BC "MOLDINDCONBANK"	Bank	BC MAIB SA.
MOLDMD2X	cod bancar	AGRNMD2X
mun. Chișinău, str. Petricani 21, of.206, MD-2059	Adr.jur.	mun. Chișinău, str.31 August 1989 , 131
068 462 832; 068 588 823	Tel/Fax	022-839-868/867; 022-839-869
nicolae.prisacaru@eneers.md	e-mail, site-ul web	serghei.voitovschii@undp.org

A predat:
 Administrator "ENEERS" SRL

Nicolae Prisăcaru

Responsabil Proiect
Vladimir Ivanov

Executant:

A primit:
 UNDP, Manager Program
 EU4Moldova: Regiuni-cheie

Alexandru Peliyan

Ofițer Proiect
Sergiu Voitovschii

Beneficiar: