

Scope of Work

**United States Embassy Kyiv
Facility Maintenance Section**

**4 Sikorsky St.
Kyiv, Ukraine**

Scope of Work

(SOW)

GAS METERING DEVICE REPLACEMENT

Date: 3/14/16

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1. INTRODUCTION

1.1 The United States Department of State (DOS) requires services for gas metering device replacement in New Embassy Compound (NEC).

2. OBJECTIVES

2.1 The purpose of this scope of work is to provide the replacement of existing gas flow metering unit at the US Embassy in Kiev, at 4 Sikorsky Street. Replacement of metering unit is because existing pipe is too small. Metering unit needs to be replaced because the old one is too small and was installed before the construction of the USAID (NOX) building.

3. CURRENT CONDITIONS

3.1 New Embassy Compound located at 4 Igor Sikorsky St., and gas metering device at the Demark location at New Embassy Compound (NEC).

3.2 Currently the equipment is in good operating condition.

3.3 An existing pipeline (input - medium pressure $P < 3.0 \text{ kg / sm}^2$ $\Phi = 90 \times 5,2$) is the source of gas supply to the US Embassy. Operating pressure is 1 kg / sm^2 at the connection point to the distribution medium pressure gas pipeline DN 500.

3.4 Right now system CWR-1.01-G-160-80-1.0 JV "Radmirteh" is installed for commercial gas flow measurement

3.5 Technical working design for Gas metering device replacement is already done and approved.

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4. SCOPE OF WORK

Requirements are listed below.

4.0 Update technical specifications for the project.

4.1 Purchase and deliver the following equipment and materials on site:

- Controller OE 22 BU;
- Power supply unit BP-1K-1;
- Electrical battery 12V 200 A/hours;
- Gas volume calculator OE22 DMiz;
- Printer ML 1120 OKI;
- Module range switching unit 3P DN80 AUMA;
- UPS SINPRO 600-S910;
- Gas distribution plant;
- Spark protection unit IP29;
- ExibllBX PSA-03Ex.03.24;
- Frequency converter ALTIVAR 12;
- Manometers DM 05;
- Gas measuring converter PC-28/0.6MPa;
- Differential pressure converter;
- Modem GSM WAVECOM;
- Gas filter FM MADAS DN 80.

4.2 Acquisition of gas metering device and its adjustment (Gas metering device q min=0.16 m³/hour, q max=25m³/ hour ZOND-1 G16, D=40 and Gas metering device q min=2.5 m³/hour, q max=400 m³/ hour ZOND-2 G250, D=80.

4.3 Verification of gas metering device in certified laboratory.

4.4 Gas disposition terminal assembly on Contractor's site.

4.5 Cabinet assembly installation on Contractor's site.

4.6 Cable lines installation (PV3 1x6.0 mm² – 220 meters,, PV3 1x0.5 mm² – 3 meters MKISHV 2x2x0.5 – 600 meters, KVB 4x1.5 – 100 meters, KVB 10x0.1 – 100 meters.)

4.7 Cabinet installation on U.S. Embassy site.

4.8 Gas pipes lines replacement on U.S. Embassy site. (Steel pipe ϕ =45x2,5 -11 meters, Steel pipe ϕ =89x6 -7 meters,

4.9 Cables connection to new equipment.

4.10 Density and strength pipeline test.

4.11 Paperwork preparation.

4.12 Start up and commissioning new gas metering device for U.S. Embassy and PAT Kyivgas

4.13 The contractor shall coordinate all work and testing of systems with the Point of Contact (POC) at U.S. Embassy.

4.14 All repair and maintenance must be performed by qualified appliance technicians.

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4.15 Provide a written test report (in English) to the Facilities Manager containing the following:

- a) System information (make, model, all device types).
- b) Pass/Fail for each feature and type of component tested. If a device fails, note device type, address and location within U.S. Embassy.
- c) Provide any comments on system (or device) condition as pertains to service life and dependability.
- d) Full printout of test from system printer (if needed).

5. SAFETY

5.1 This work must be performed by qualified personnel with regulatory approval and with 3 years of practical experience

6. SECURITY

6.1 The work to be performed under this contract requires that the contractor, its employees and sub-contractors submit corporate, financial and personnel information for review by the Embassy. Information submitted by the contractor will not be disclosed beyond the Embassy. The contractor shall submit this information including construction vehicle requirements within 10 days of the notice to proceed.

6.2 Contractor shall provide security information to U.S. Embassy representative for access and escort requirements. Information shall be provided at least 10 days prior to work.

- a) Company name and names of workers
- b) Dates of scheduled work.
- c) Level of clearance.
- d) Name of Company for third party contractors.
- e) State whether laptop, digital cameras or other electronics is needed for the task.

7. POINTS OF CONTACT

Contracting Officer (CO): GSO/ Gregory MacDonald

Contracting Officer Representative (COR): Facility Manager/Tommy Heard

Contracting Officer Technical Representative (COTR): Mechanical Engineer /
Kostyantyn Sukhenko