REQUEST FOR EXPRESSIONS OF INTEREST

Contract Title: Supply of Conditon Monitoring System for Pumping Units

Reference No. OMV Petrom: WS3411592330

OMV Petrom S.A. is interested in concluding a framework contract for the "**Supply of Conditon Monitoring System for Pumping Units",** including supervision of assembly, electrical connections, installation, commissioning, testing and training.

The sensors shall have the following technical characteristics. ATEX certification is required where specified.

1. INSTALLATION KIT; MONITORING TYPE; APPLICATION: BEAM PUMPING UNIT; CONTENTS:

A. CENTRAL MONITORING MODULE Modbus TCP/IP (communication with wireless or wired sensors; Ethernet communication with the existing OMV Petrom modem; minimum 4 analogue unified-current inputs, 4–20 mA; 1 analogue temperature input for PT100; 2 NAMUR inputs in accordance with IEC 60947-5-6; 4 digital 24 VDC inputs/outputs for future expansion); module operating temperature: –20/+70 °C (storage temperature: –29 °C).

B. VIBRATION SENSORS (provide vibration monitoring at the following points: electric motor, gearbox and central bearing; measuring range: 0–25 mm/s; analogue unified-current output: 4–20 mA; operating temperature: –20/+70 °C (storage temperature: –29 °C); magnetic mounting).

C. TEMPERATURE SENSOR (monitors the motor bearing temperature at the drive end; measuring range: –29/+90 °C; analogue output: PT100; IP67 protection; magnetic mounting).

D. GEARBOX OIL LEVEL SENSOR (measuring range: 200–1000 mm; analogue unified-current output: 4–20 mA; operating temperature: –20/+70 °C (storage temperature: –29 °C); IP67 protection).

E. CURRENT SENSOR (monitors the current drawn by the electric motor; split-core type; transformation ratio: 30(40)(60)(100) A/20 mA, 0.5%; operating temperature: –25/+60 °C (storage temperature: –29 °C); IP65 protection).

F. SKID/BASE LIFTING SENSORS (monitor movement of the beam pumping unit structure relative to the concrete foundation on both sides; ATEX Zone 2 certification; measuring range: 0–4 mm; NAMUR output; operating temperature: –20/+70 °C (storage temperature: –29 °C); IP67 protection; magnetic mounting system).

G. UNSCREWING SENSORS (monitor the loosening of the crank nuts; wireless communication with the central monitoring module; module operating temperature: –20/+70 °C (storage temperature: –29 °C); rechargeable battery power supply; magnetic mounting).

H. WELL CELLAR LEVEL SENSOR (resistant to petroleum products and salt water; ATEX Zone 1 certification; float type; contact output; operating temperature: –20/+70 °C (storage temperature: –29 °C); mechanical mounting).

I. ENERGY ANALYSER MODULE (calculates the electrical power during the upstroke and downstroke of the beam pumping unit; communicates with the central monitoring module (wireless or wired, in accordance with the supplier's standard); 3-P voltage inputs, 0–600 VAC; 3-P current inputs; module operating temperature: –20/+70 °C (storage temperature: –29 °C); DIN-rail mounting; no internal components connected between any phase and GND that could alter the IT characteristic of OMV Petrom networks?.

J. CABLES (cable and conductor systems shall comply with the relevant requirements of EN 60079-14. They shall have flame-propagation resistance characteristics enabling them to pass the tests specified in EN 60332-1-2 or EN 60332-3-22 (Category A)).

ADDITIONAL DETAILS: 230 VAC to 24 VDC/2 A.

2. INSTALLATION KIT; MONITORING TYPE; APPLICATION: BELT-DRIVEN GEARBOX DRIVE UNIT (UARC); CONTENTS:

A. CENTRAL MONITORING MODULE (ethernet communication with the existing OMV Petrom modem; management and transmission of values (temperature, vibration and fluid-level signals in the well cellar) via Modbus TCP/IP; minimum 3 analogue unified-current inputs, 4–20 mA (sensors installed in a classified area); 1 analogue temperature input for PT100 (sensor installed in a classified area); minimum 2 digital 24 VDC inputs (sensors installed in a classified area); 2 digital inputs/outputs for future expansion; module operating temperature: –20/+70 °C (storage temperature: –29 °C); no internal components connected between any phase and GND that could alter the IT characteristic of OMV Petrom networks).

B. VIBRATION SENSORS (monitor vibration at the electric motor and gearbox; measuring range: 0–20 mm/s; analogue unified-current output: 4–20 mA; module operating temperature: –29/+110 °C; ATEX Zone 2 certification; magnetic mounting).

C. TEMPERATURE SENSOR (monitors the motor bearing temperature at the drive end; measuring range: –29/+90 °C; analogue output: PT100; IP67 protection; ATEX Zone 2 certification; magnetic mounting).

D. WELL CELLAR LEVEL SENSOR (resistant to petroleum products and salt water; ATEX Zone 1 certification; float type; contact output; operating temperature: –20/+70 °C (storage temperature: –29 °C); mechanical mounting).

E. CABLES (cable and conductor systems shall comply with the relevant requirements of EN 60079-14. They shall have flame-propagation resistance characteristics enabling them to pass the tests specified in EN 60332-1-2 or EN 60332-3-22 (Category A)).

The Purpose of the Scope of Work is to purchase the products and related services mentioned above, which will be used in the areas of activity of OMV Petrom - Exploration & Production Division

Duration of the contract: maximum 3 years

OMV Petrom S.A. now invites eligible companies to indicate their interest in providing the above-mentioned Services and products. Interested companies should provide information demonstrating that they have the qualifications and relevant experience to perform the contract (brochures, description of similar assignments, experience in similar conditions, etc.).

Interested companies shall demonstrate that they possess all authorizations, certifications, and competencies required for the execution of the activities covered by the Contract, including, but not limited to:

- SR EN ISO 9001:2015 certification relevant to the main activity of the Contract, or an equivalent certification;
- ANRE Grade II B authorization, demonstrated by the availability of at least one duly authorized execution technician;
- INSEMEX Certificate NEx01-06/2007, demonstrated by the availability of at least one duly authorized execution technician.

Any potential joint venture/association should provide the above-mentioned information for all the partners of the association.
All the companies which will express their interest to participate in the procedure organized by OMV Petrom will be invited to submit a bid.
Bid evaluation will only be conducted for companies that have met the qualification and selection requirements.

Further information can be obtained at the address below during office hour (Monday – Thursday 08:00 to16:30, Friday: 08:00 to 14:00).

Expressions of interest must be delivered in a written form to the address below (by fax, or by e-mail) until 02.12.2026; 14:00 hours.

The Request for Expressions of Interest shall expire after the above-mentioned date.

Procurement Department
Attn: Alexandra Ciuca – Procurement Expert
E-mail: alexandracrenguta.ciuca@petrom.com