Translation from Bulgarian

LUKOIL
Oil Company

Joint-stock Company
LUKOIL Neftohim Burgas AD

Ref. No. 234-01-2199/27.04.2018

To
EL KONTROL EOOD
Nyagol Stoyanov Hristov

GOOD PERFORMANCE CERTIFICATE

To the activity of EL KONTROL EOOD

LUKOIL Neftochim Burgas AD issues the present certificate to verify that during the period 2017-2018 Company EL KONTROL EOOD implemented contracts for supply, installation and commissioning of facilities under The Renovation of Equipment and Repairs Program of the Joint-stock Company, as follows:

1. Contract No. A201701015/ 16.10.2017 for **Design, delivery and substitution of oil bushings with bushing insulators, in 110 kV Indoor Switchgear at Substation GPP-2**.

The following activities were executed:

I. Design Stage

- Design of primary commutation for 30 pcs. bushing insulators.

II. Installation and commissioning Stage

- Dismantle of existing oil bushings;
- Dismantle of existing mounting bases for bushings;
- Delivery of 30 pcs. 110 kV bushing insulators and materials for their installation and wiring;
- Production and installation of mounting bases;
- Installation of wall bushings and connection to existing equipment in the 110 kV Indoor Switchgear at Substation GPP-2;
- Substitution of existing strain clamps with new compression strain clamps;
- Commissioning works.

2. Purchase order No. 115733/ 06.12.2016 for **Delivery of SEPAM digital protection**. Order includes delivery of SEPAM M61 digital protection, MES120G expansion module.

3. Purchase order No. A201800063000, com. № 175 038/ 05.02.2018 for **Delivery of power supply units**. Order includes delivery of IP-POWER600-G2 power supply unit for 600 V electrodeionizer, DC power supply controller for all MX, LX и VNX modules.

4. Contract No. A201701616000/16.02.2018 for **Substitution of control cables for 110/6 kV power transformers and repair of cubicles of 6 kV Indoor Switchgear, at Main Step-down Substation GPP-2.**

The following activities were executed:

- Dismantle of concrete covers of cable ditches
- Dismantle of cables;
- Installation and fixation of control cables onto steel structure; connection of power and control cables to power transformers;
- Substitution of end switches, electromagnetic locks, and disconnector signaling devices in 6 kV cubicles;
- Repair of 6 kV disconnectors;
- Substitution of mesh fences for 6 kV cubicles' doors with thick metal sheets;
- Construction and repair works;
- Commissioning works.

5. Contract No. A 201800035 000/01.03.2018 for **Reconstruction of feeder bays for Substation 227 from Substation GPP-2, including installation of differential protection with Intertrip function, for power supply cables.**

The following activities were executed:

I. Design Stage

• Elaboration of Detailed design for reconstruction of the external power supply of MV S/st 227; configure and calculation of the differential protection settings.

II. Supply of equipment:

• 31,5 kA, 12kV, 2000 A vacuum circuit breakers SION, produced by Siemens; digital differential protection; microprocessor-based protection devices; surge arresters; electrometers; amperemeters; measuring current transformers, secondary commutation equipment; cable trays; fiber-optic cables.

III. Construction works, installation and commissioning of equipment

• Dismantle of equipment from 6 kV bays.

• Reconstruction of two bays in S/st GPP-2 by installation of vacuum circuit breakers.

• Installation of new microprocessor-based protection devices (ABB make) for input circuit breakers and for bay circuit breaker in S/st 227.

• Installation of sound and lighting signalization for Switchgear in S/st 227.

• Installation of differential protection for power supply cables of S/st 227; installation of communication fiber-optic connection between S/st 227 and S/st GPP-2 for the needs of the differential protection.

• Reconstruction of Auto Transfer Switch (ATS) secondary commutation and logics, for the input bays and for bay circuit breaker in S/st 227. Reconstruction includes installation of fast ATS upon switch-off differential protection and Intertrip signal in S/st GPP-2.

• Commissioning works: relay protection parametrizing, test of electrical equipment, test of optical fibers, putting all installed equipment under operational use

Assigned works were executed professionally and in correspondence with the current Normative Regulations and Instructions in the Republic of Bulgaria. Activities were implemented in accordance with the Requirements for Execution of Activities on the Territory of the Joint-stock Company, and under strict compliance with the Health & Safety Requirements. The agreed deadlines for implementation of works were strictly observed.

Company proved to have the machinery, the special purpose vehicles and the equipment, as well as the highly-qualified managing and erection staff required for implementation of the tasks undertaken.

Based on the above stated, LUKOIL Neftohim Burgas AD issues the present certificate to ascertain that EL KONTROL EOOD is a reliable and trustworthy partner. With the present Certificate we certify that we are contented with our cooperation with EL KONTROL EOOD.

The present Good Performance Certificate has been issued to be submitted by EL KONTROL EOOD in tenders and procurement procedures.

Respectfully,

Acting Head Engineer – First Deputy of the Chairman of the Management Board:
D. D. Pehlivanov
Signed: *(illegible)*

D. D. Pehlivanov
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