

# **SCOPE OF WORK**

## ***Logistics, LPG Loading Section: installation of dry pipes from existing fire hydrants to gas tank truck filling station area***

### **1. General.**

Install fire water supply dry pipework system from existing LPG Section No 1 (SDP-1) fire hydrants PH-20, PH-21 and PH-29 to Petroleum Products Loading Shop (SDKB) Loading Section No 3 gas tank truck filling stations Nos 1, 2, 3 according to design OLP02631-M1405-TDP.

### **2. Attachments.**

2.1. Attachment 1. Design No OLP02631-M1405-TDP file SK.

2.2. Attachment 2. Design No OLP02631-M1405-TDP file VN.

### **3. Description and specifics of work.**

#### **3.1. General requirements.**

3.1.1. According to design OLP02631-M1405-TDP install aboveground fire water dry piping (3 pcs.):

- From SDP-1 fire hydrant PH-21 to SDKB gas tank truck filling station No 1;
- From SDP-1 fire hydrant PH-28 to SDKB gas tank truck filling station No 2;
- From SDP-1 fire hydrant PH-29 to SDKB gas tank truck filling station No 3.

3.1.2. Install ferro-concrete support foundations and steel supports required for dry piping according to design OLP02631-M1405-TDP file SK.

3.1.3. Steel support structures must be primed and coated with anti-corrosion paint. Structures which must be fireproofed, must be additionally coated with fireproof paint as indicated in design OLP02631-M1405-TDP file SK.

3.1.4. The worksite must be cleaned, reinstated and handed over to Mechanical Engineer or Head of Section.

#### **3.2. Work Specifics.**

Prior to submitting proposal, the contractor shall visit the site to evaluate the design, the scope and specifics of works, potential contingencies and additional works and machinery required for works.

#### **3.3. Description and executors of work.**

3.3.1. Earth work for construction of foundations for piping supports. CONTRACTOR

3.3.2. Construction of ferro-concrete foundations for piping supports. CONTRACTOR

3.3.3. Installation of piping supports. CONTRACTOR

3.3.4. Installation of piping, fittings, valves. CONTRACTOR

3.3.5. Coating of supports with anticorrosion, fireproof paint. CONTRACTOR

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3.3.6. Scaffold erection/removal. CONTRACTOR

3.3.7. Crane lifting operations. CONTRACTOR

3.3.8. Development of technical documentation. CONTRACTOR

3.3.9. Reinstatement works. CONTRACTOR

### **3.4. Requirements for documentation.**

3.4.1. Prior to the start of works, CONTRACTOR shall develop and coordinate a work method statement based on the requirements of OWNER'S Procedure BM-4.

3.4.2. After completion of mechanical works, CONTRACTOR shall submit installation documentation as required by the Owner's Procedure BM-4.

### **3.5. Qualification requirements for Contractor.**

3.5.1. CONTRACTOR shall have and present OWNER with a valid certificate issued by the National Energy Regulatory Council authorizing maintenance of crude oil refining facilities.

3.5.2. Welding work supervisor shall be certified under LST EN ISO 14731.

3.5.3. Welders shall be certified under EN 9606-1.

## **4. Materials, equipment, and services provided by Owner.**

Power connection sockets in the closest proximity to the site.

## **5. Materials, equipment, and services provided by Contractor.**

5.1. All materials specified in design OLP02631-M1405-TDP (pipes, fittings, valves, supports, concrete, bolts, paint, etc.).

5.2. Temporary connections to power connection points indicated by OWNER.

5.3. Work means and equipment to be provided by CONTRACTOR: welding, cutting materials and equipment required for the performance of works.

5.4. Special equipment (forklift, foundation concreting equipment, etc.)

5.5. Lifting equipment– cranes.

## **6. Requirements for work completion.**

Works shall be considered completed after:

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- 6.1. Installation documentation is submitted by the Contractor and accepted by the Owner.
- 6.2. The worksite is cleaned and put into order, scrap metal and waste generated during the work removed. Worksite handed over to OL work coordinator and head of section against site handover and acceptance statement.
- 6.3. OWNER'S materials consumed during works have been written-off. Non-used materials have been returned to the warehouse.
- 6.4. Installed dry piping has been tested (HT will be performed by firefighters) without defects detected.

### **7. Work shall be considered accepted after:**

A work handover–acceptance statement is signed between CONTRACTOR and OWNER. The Statement to be prepared by CONTRACTOR.

### **8. Requirements for work schedule.**

- 8.1. The works shall be performed in 1 eight-hour shift 5 days per week (1x8x5).
- 8.2. Works to be commenced upon contract signature. Work to be completed as indicated in schedule prepared by contractor and approved by OL work coordinator.
- 8.3. Present non-dated execution schedule.

### **9. Other**

All materials provided by contractor must be in compliance with design No OLP02631-M1405-TDP specifications.