

**TECHNICAL REQUIREMENTS**

for supply of tube bundle with a floating head

**Requirements for the contents of the Technical Part of the proposal:**

**I.** The offer shall contain a proposal for supply of tube bundle with a floating head and it shall meet the following:

**Technical requirements of LUKOIL Neftohim Burgas AD:****1. Supply specification:**

Process Items (heat exchanger)	Cipher	Complex	Process Unit	Quantity
<b>Tube bundle with a floating head</b>				
Tube bundle with a floating head for shell-and-tube heat exchanger T-117	1958	PCP	AVD-1	1

**2. Technical requirements** for fabrication of tube bundle with a floating head for shell-and-tube heat exchanger T-117. The attached drawing (Attachment №1.1 - №1001-MK-T-117) gives the main overall and connection dimensions of the bundle;

2.1. Materials for the fabrication of the tube bundle, according to drawing №1001-MK-T-117;

2.2. The tubes (comprising the tube bundle) must be seamless one-piece, according to EN 10220. Welded tubes are not allowed;

2.3. It is allowed to replace the specified materials with equivalent / similar ones;

2.4. All weld seams shall be inspected and tested according to EN 13445-5:2014/A1:2018;

2.5. In order to prevent any deformation (bending) of the tube bundle tubes during transportation, it must be delivered with the appropriate fixing devices;

2.6. The tube bundle shall be delivered in a set with a floating head, gaskets and fasteners for it.

**3. Requirements to the documentation:** Submit a Declaration that the shipment will be accompanied by the following documents:

3.1. Manufacturer's quality certificate;

3.2. Declaration of compliance with the order 2.1;

3.3. Certificate of the basic materials;

3.4. Certificate of the welding materials;

3.5. Certificates of the welders;

3.6. Qualifications of welding procedures - WPQR/ EN ISO15614-1;

3.7. NDT reports and certificates (where applicable);

3.8. Installation instructions.

**4. Warranty:** Warranty period for the delivered equipment - not less than 24 months from the date of installation but not more than 36 months from the date of delivery.

**Note:** The hydraulic test of the tube bundle will be executed after installation of the equipment at LUKOIL Neftohim Burgas AD in the presence of the Supplier/Vendor.

**5. Delivery period:** Delivery of the equipment within 135 calendar days from entry into force of the contract.

**Attachments:**

1. Attachment №1.1 - Drawings №1001-MK-T-117.

**Note:** The Participant must submit a Declaration that he is familiar with the EU policy on participation in Green Public Procurement projects and confirms that the equipment supplied by him complies with said policy.

[https://ec.europa.eu/environment/gpp/eu\\_gpp\\_criteria\\_en.htm](https://ec.europa.eu/environment/gpp/eu_gpp_criteria_en.htm)

*The Technical Proposal shall be prepared on company letterhead, clearly and legibly drawn up, in Bulgarian or English language, signed and stamped by your authorized person.*



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