



Puławy, May 5<sup>th</sup> 2011

## **Answers to the questions asked by Economic Operators concerning Public Contract INS/LWC-20/2011.**

### **Question:**

According to Technical Specification to the Specification of Essential Terms of Contract the system offered should include reactor of 250 ml capacity and internal basket.

- Do you mean reactor with a batch type of bed or catalytic reactor with another type of bed (what type of bed) together with stirring?
- Will reactions be carried out in a liquid and gaseous state or aliquid or gaseous state?
- If the reactor specified is to be batch reactor, do you mean cocurent reactor or countercurrent reactor with liquid or gas flow.

### **Odpowiedź:**

- Awarding Entity requires batch reactor .
- Reactions will be carried out in a supercritical state.
- Awarding Entity requires countercurrent reactor.

### **Question:**

In accordance with 3.1 and 3.2 of the Specification maximum operating temperature shall be not less than 500°C whereas maximum operating pressure of the reactor shall be not less than 31 MPa material: Alloy 625 or similar. Due to the fact that the pressure equipment made of Alloy 625 (2.4586) are permitted for exploitation by Certified Bodies e.g. TUEV, UDT etc. (pursuant to PED Directive) at the temperature up to 450°C I hereby request to accept my offer for equipment with maximum operating pressure of 450°C. If such reduction is not possible, I kindly request to specify other kind of material for reactor and heater. We cannot select other kind of material on our own despite "Alloy 625 or similar" given in the Specification since there is no such similar material to Alloy 625 available on the market. Therefore, similarity should be excluded. The selection of the material type should be made by Awarding Entity since he knows other process conditions not mentioned in the Specification.

### **Answer:**

Awarding Entity confirms that minimum temperature in the reactor shall be not lower than 500°C, allows for equipment manufactured form material fulfilling minimal conditions for the temperature





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provided (not lower than 500°C) and operating pressure (not lower than 31 MPa) and resistant to supercritical water corrosion. Thus, the expression "Alloy 625 or similar" shall be excluded from the Specification in order to emphasize working parameters of equipment. The above mentioned parameters shall be replaced by "steel fulfilling all the parameters given in the Specification"

**Question:**

Awarding Entity specifies as per 3.4 and 3.5 liquid flow range: 0-6 l/h whereas gas flow range: 0-2 NI/h. Comparison of those 2 values implies that they are (or one of them) incorrect. Gas flow range 2 NI/h is 6.7 at the pressure of 300 bar. I ask for revision of these values and specification of correct ones.

**Answer:**

Gas flow meter will be placed behind gas-liquid separator. Maximum operating pressure of gas flow meter is 0.3 MPa. Therefore, the above mentioned values are proper and correct.

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