



MANIFOLD SYSTEMS INTERNATIONAL
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Manifold Systems International FZC

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To: PJSC «UkrGasVydobuvannya»
attn.: Tender Committee

Date: September 26 - 2018

Tender: 18T-571

Topic: UNVALID UGV TECHNICAL CLAIMS for MSI FZC TECHNICAL OFFER

- 1.1. Name Joint Stock Company "Ukrgazvydobuvannya"
- 1.2. Location of the street. Kudryavskaya, 26/28, Kyiv, 04053
2. Information on the subject of procurement:
34140000-0 - Grossmotor motor vehicles (pump unit with working pressure of 70 MPa)
3. Date of publication and number of announcement on conducting a pre-purchase, published in the electronic procurement system: www.dz.prom.ua:
Announcement No. 18T-571 dated August 9, 2018
4. Considered:

"Protocol of results of pre-qualification selection from 09/21/2018, No. 18T-571, service note of the Mechanics and Energy Department dated September 11, 2018 No. 6/551-C, that there is no proposal from the Participant of "IMPEX AUTOMATION" " a guarantee letter from the pump equipment manufacturer to confirm the delivery date. In accordance with Annex No. 2 of the tender documentation (Technical and qualitative characteristics and basic conditions that will be included in the procurement contract), the drive motor must be at least 475 hp, the competitor offers ryvidnyy engine with 375 hp

MSI FZC => this is wrong. The truck chassis engine is 375hp but the triplex pump drive engine (Cummins) is 485hp (chapter #2 - Deck Engine in our proposal). So we are compliant as the 475hp required by UGV are for the engine that drives the triplex pump.

In accordance with Appendix No. 2 of the tender documentation, the performance of the three-piston pump is not less than 3.6 l / sec., At a working pressure of at least 70 atm., The Participant offers in Annex №2 the information provided 3.6l / s, at the same time in the passport for a single cementing unit on cars with working pressure 70MPa page 3- 126l / min, on page 11-140l / min.

MSI FZC =>UGV did not pay attention to the RPM of the triplex pump in the evaluation.

The maximum crankshaft speed of the pump is 456 RPM (also called pump strokes).

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The 126L/min given at 11'023 PSI are at 44 RPM (crankshaft speed) as shown in our table.

3.6L/s is 216L/min. $216/126=1.72$ so $44 \times 1.72 = 76$ RPM of the crankshaft and requires only 400hp.

The pump is perfectly compliant. And this can be seen on the Griffin GT-600 triplex pump brochure attached.

We are contesting the technical non compliance claims of UGV. Our replies to UGV's technical comments are demonstrating our compliance with the tender requirements.

Rodolphe Tousset
Managing Director



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