

March 28, 2022

Ref.: 282444

 To: All Tender Participants  
 Dear Sir / Madam,

**Re: Public Tender No. PD22000315 (the "Tender") – Clarifications**

The Company has received certain requests for clarification regarding the Tender, in accordance with Section 5.1 thereof, provided below (the "Questions"). Next to each Question is the Company's answer, which shall be considered by the Company as authoritative.

	<u>Question</u>	<u>Answer</u>
1	Section 4.3 of the technical specifications is required that Pump's NPHS (r) will be less than 0.5 m . From our experience and calculations, for your technical requirements (distances, temperatures, flow rates) the NPSH should be 2.5-3m. Please your advice	Our existing pumps in the pertinent facility have a low pressure default of 0.06 bar. Thus, vapor pressure is less than the specified by the vendor. Most importantly, the pumps needs to operate in emergency situations, that is, the pump is placed on the top of the spill containment area (sump) located about 5 meters down and the pump is located on the road.
2	Section 4.4 of the technical specifications is required that the diameter of the suction and discharge sides shall be 8". From our calculations , for your technical requirements and for flow rate of 400 m3/hr to distance of 750m the diameter should be at least 10". Please your advice if it is possible to offer a pump diameter of 10" with suction and discharge 10" or with adaptors at the suction and discharge to 8"	Our calculation indicates that at 400 m3/hr when the maximum pressure differential per km of pipe is about 5.5 bar/km. We try to stick to 5-5.5 bar/km and 8" should suffice. Vendor can share calculations if concerned. Regarding the adaptors, it is possible though we prefer not to have them.



3	Section 5.3 of the technical specifications is required the engine shall have a direct drive to the pump, but your required application will most likely need a gear reducer between the pump and engine to achieve the required rpm and flow rate. Please your advice.	Vendor can install a gear reducing engine to achieve 400 m3/hr at 6 barg discharge.
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Thank you for your continued interest in the Tender; we look forward to receiving your bids.

Sincerely,

*Talmor*

Talmor Sela

Procurement and Engagements Department

