225383#

Request for Information 048-19 – Centrifugal BB3 pumps

1. Petroleum and Energy Infrastructures Ltd. **("PEI")** hereby invites manufactures with relevant experience and expertise ("**Particpants**"), to provide a detailed response to this Request For Information ("**RFI**") in connection with the provision of Design and Procurement of 3 new centrifugal horizontal Between bearings axially split pumps at PEI's Eshel Terminal site in Israel (the "**Procurement**").

2. Participants in this RFI are kindly requested to provide the following information:
   - 2.1. Manufacturing capabilities of BB3 pumps in accordance to the technical specification described.
   - 2.2. Manufacturer pump features similar for BEP demanded- 300 Cubic Meter per hour, @ bar 60 availability of rotation speed and flanges rating.
   - 2.3. Pump dimensions
   - 2.4. Suggested sealing system (API 682 plan No.)
   - 2.5. Motor Manufacturer
   - 2.6. List of Pumps, as described, supplied in the last 2 years in accordance with standard API 610
   - 2.7. Maximum Efficiency –minimum to maximum efficiency
   - 2.8. Redundancy.
   - 2.9. Spare parts list
   - 2.10. Warranty and extended warranty
   - 2.11. Technical support, supplier/manufacturer participation in installment and testing of pump
   - 2.12. Lead time
   - 2.13. General Terms and Conditions

   A data sheet is attached.

3. Any questions and/or inquiries shall be addressed in writing to Talmor Sela by E-mail: purchasebid@pei.co.il, no later than **November 13, 2019**.

4. Responses to the RFI shall be submitted, in writing, in English or Hebrew, to the following E-mail address purchasebid@pei.co.il, no later than **November 19, 2019.**

5. Upon receiving a response, PEI will initiate a review and may contact the Participants to follow up with additional questions and clarifications, in writing or otherwise, may ask for site visits to facilities erected or operated by the Participant, or carry out professional inquiries regarding any Participant, including by way of contacting third parties. In addition, PEI may hold RFI sessions,

either by videoconferencing or meetings which will be held in Israel, whether with all Participants or only with those deemed relevant at PEI's sole discretion. As part of such RFI sessions, the Participants will have the opportunity to present their detailed responses.

6. This RFI is a preliminary process initiated by PEI's tender committee, solely for the purpose of receiving information and its internal evaluation and consideration, and does not constitute a tender, a bid solicitation, a proposal or a request for proposals in any manner whatsoever. The issuance of this RFI is not intended to guarantee the initiation, execution or the implementation of the Procurement, its scope, its components or any part thereof.

7. Participation in this RFI shall not provide a Participant with any advantage, or confer upon a Participant any right with respect to the Procurement or any future proceedings which will be conducted with respect thereto, if and to the extent conducted (including the pre-qualification process or the tender process), or be a pre-requisite for participating in such future proceeding. Participating in the RFI shall not constitute or be interpreted as constituting a recognition of a Participant's or any other entity's eligibility, qualification or competence to participate in any such future proceedings, if conducted.

8. PEI reserves the right not to proceed with this RFI, and may terminate or cancel this RFI or any other proceedings which are conducted with respect thereto, at any time as it shall deemed appropriate and Participants shall have no right of claim against PEI and anyone on its behalf in respect thereof.

9. Without derogating from the generality of the above, PEI may publish a new Request for Information and/or an invitation to pre-qualify or other proceedings with respect to the Procurement or any part thereof, publish a different Procurement, inviting or not the Participants to take part in such process, or execute the Procurement in any other way deemed appropriate, all subject to and in accordance with applicable law.

10. PEI may use any information it receives from a Participant or any third party for any purpose it deems fit at its sole discretion, including forming specifications or any other documents, and may transfer any such information to any of it consultants or any person on its behalf. Without derogating from the foregoing or from the discretion granted to PEI, Participants may mark, in a clear, complete and legible manner, information contained in the response which is considered commercially sensitive or of a secret nature, and PEI will, to the extent allowed by law, refrain from disclosing such information. Please note that PEI is not requesting a proposal, detailed plans, marketing material, budgetary information or proprietary information in response to this

RFI.

11. The Participants shall not be entitled to any payment for the information provided by them in this process. All expenses incurred by a Participant or anyone on its behalf shall be borne solely by the Participant.

12. This RFI is subject to the Israeli law including the Mandatory Tenders Law 5752-1992, Mandatory Tenders Regulations 5753-1993, and the obligation to disclose information in accordance with the provisions of Section 14A thereof. The courts of Jerusalem, Israel shall have exclusive jurisdiction in any and all disputes arising out of or relating to this RFI.

Data sheet:

BARAN EPCO Member of Baran Group Ltd.		DATA SHEET			ITEM No.						
		CENTRIFUGAL PUMP			SHEET	1	OF	1			
DESCRIPTION:					**JOB NO. :**						
PLANT:					**PROJECT:**	1-033-001					
LOCATION:					**P&ID:**						
1	No. req'd		Operating		Stand by						
2	Make		Size & type		Serial No.						
3	Drive		Drive type			ELECTRICAL					
4	**OPERATING CONDITIONS**										
5	Fluid	LIQUID FUELS	Normal flow		m^3/hr	NPSH avail.	static min 6	m			
6	Pump temp	AMBIENT °C	Design flow	300	m^3/hr	NPSH reqd.		m			
7	Density @ P.T	842 kg/m^3	Differential head		m						
8	Vap.Pr.@ P.T	0.75 IN 20c mmHg	Suction head	10	m	Corrosion/erosion caused by					
9	Visc. @ P.T	5 cP	Max.disch.pres.	60	barg	External flush available					
10	Solids % by weight	N/A	Average particle size (50% passing)		N/A	mm					
11	Density of solids	N/A kg/m^3	Max. particle size		N/A	mm					
12	**DESIGN**										
13	Mounting	HORIZONTAL	Bearing Lubrication	FORCED	Shaft diameter at coupling		mm				
14	Case split		Visible Lubricator		Water ring clearance						
15	Support		Coupling guard	YES	Stuffing box Depth	NO	mm				
16	Impeller type	Closed			Base plate	YES					
17	Corrosion allowance	mm			Coupling Manufacturer/type						
18	Cooling media piping by		Masses		Nozzles	Position	Size	Rating			
19	Cooling media temp in/design	°C	Pump & Cplg.	kg	Suction	H		#600			
20	External flush rate	lit/min	Base	kg	Disch.	H		#600			
21			Total	kg	Vent	?					
22					drain	?					
23			Space req. with driver		Seal	?					
24	**MATERIAL OF CONSTRUCTION**				**SEAL**						
25	Case		Casing gasket		Mech. Seal	DOUBLE SEAL API 683					
26	Impeller	SS316	Base plate		Seal ring						
27	Shaft	SS316	Protective Lining		Aux. Gland						
28	Shaft Sleeve	YES			Seal Flush Plan	BY FUEL					
29					Packing						
30					No. & Size						
31	**PERFORMANCE**										
32	Head m		No. of stages		Overall length		mm				
33	Speed RPM	2900	Bid impeller	mm	Overall width		mm				
34	Efficiency %	min 70	Max. impeller	mm	Outline diagram No.						
35	BKW		Min impeller	mm	Cross section No.						
36	Shut off H m	6	Eye area	cm^2	Max pressure @ °C	100	barg				
37	BEP Flow m3/hr		Impeller width	mm	Hydro test pressure		barg				
38	Min. Flow m3/hr		Bid imp. max.	kW							
39	Performance curve no.		Max. imp. max.	kW							
40	Driver		Tests	Required	Witnessed	Supply	By				
41	Motor /kW/rpm	50HZ	Shop inspection	☐	☐	Pump	V				
42	Volts/Phase/ Hz	6600V	Hydrostatic	☐	☐	Base plate	V				
43	Frame No.		Perform.	☐	☐	Motor	V				
44	Spec. No.		NPSH	☐	☐	Speed reducer	Optional				
45	Enclosure: Motor					Coupling	V				
46	Rotation facing pump coupling					Guards	V				
47	**REMARKS**										
48	*ALL HEAD VALUES ARE IN m-FUEL										
49	*PUMP BB3 ACCURDING TO API-610										
50	*SEALING MECHANISEM SHOULD BE ACCORDING TO API-683										
51	*SELECTED IMPELLER SHOULD BE 10% LESS OF MAX DIAMETER										
52	*ALL PUMPS WILL BE EQUIPPED WITH VFD IN ORDER TO SUPPLY THE REQUIRED CAPACITY WITH MAXIMUM EFFIECENCY.										
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54											
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REV	DESCRIPTION	BY	DATE	CHK	DATE	APPR.	DATE	CLIENT	DATE