
	Project	UPGRADING OF THE FIRE FIREFIGHTING SYSTEM IN KIRYAT HAIM TERMINAL	
	Document no.	Paz Ref.(4575.8-033-P0)	
	Item	Fire Water Pumps	Page 1 of 6
	File:	4575.8-033-P0	
DOCUMENT TITLE: Request for Information – Centrifugal Horizontal & Vertical Turbine Fire Pumps			

ENERGY INFRASTRUCTURE LTD

KIRYAT HAIM TERMINAL

UPGRADING OF THE FIRE FIREFIGHTING SYSTEM IN

PUMP HOUSES J-4, J-5

Request for Information (RFI)

Centrifugal Horizontal & Vertical Turbine Fire Pumps

P0	21.10.21	For Comments	H.S	Z.S.	Z.S.
Rev	Date	Description	Prepared by	Checked by	Approved by

1. Energy Infrastructures Ltd. (“EI”) hereby invites manufactures with relevant experience and expertise (“**Participants**”), to provide a detailed response to this Request for Information (“**RFI**”) in connection with the provision of Design and Procurement of two (2) Centrifugal Horizontal axially split diesel driven and two (2) Vertical turbine diesel driven fire pumps at EI's Haifa terminal site in Israel (the “**Procurement**”). All four (4) pumps to meet NFPA 20 requirement.
2. Participants in this RFI are kindly requested to provide the following information:
 - 2.1. Manufacturing capabilities of pumps in accordance to the attached technical specification and NFPA 20 requirements.
 - 2.2. Manufacturer pump features similar for BEP demanded - 5,000 us gpm @ 160 psi availability of rotation speed and flanges rating.
 - 2.3. Pump dimensions.
 - 2.4. Suggested sealing system.
 - 2.5. Engine Manufacturer.
 - 2.6. List of Pumps, as described, supplied in the last 2 years in accordance with standard NFPA 20.
 - 2.7. Maximum Efficiency –minimum to maximum efficiency.
 - 2.8. Redundancy.
 - 2.9. Price estimate for each type
 - 2.10. Spare parts list.
 - 2.11. Warranty and extended warranty.
 - 2.12. Technical support, supplier/manufacturer participation in installment and testing of pump.
 - 2.13. Lead time.
 - 2.14. General Terms and Conditions.

Specification are attached.

3. Any questions and/or inquiries shall be addressed in writing by E-mail: purchasebid@pei.co.il, no later than December 15, 2021.
4. Responses to the RFI shall be submitted, in writing, in English or Hebrew, to the following E-mail address tender1207-21@pei.co.il , no later than December 22, 2021.
5. Upon receiving a response, EI 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, EI 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 EI'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. EI 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, EI 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. EI 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 its consultants or any person on its behalf. Without derogating from the foregoing or from the discretion granted to EI, 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 EI will, to the extent allowed by law, refrain from disclosing such information. Please note



that EI 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.



Attachment "A" Data sheet – Canned Vertical Turbine Pump

PROJECT: Energy Infrastructure Ltd, Kiryat Haim Terminal																
JOB NO: 4575.8																
1 SERVICE:	Fire water															
2 No. req'd:	2 Operating: 1 or 2 Order No:															
3 Make:	Size & Type Serial No:															
4 Driver:	Diesel Engine Drive Type : DIRECT THROUGH RIGHT ANGLED GEARBOX															
OPERATING CONDITIONS																
6 Fluid:	Fresh water Rated flow: 1135 m ³ /hr Corr./eros. caused by: Fluid/Atm															
7 Pump Temp.:	Ambient C° Max. Design flow: 1700 m ³ /hr External flush available:															
8 Density @ P.T.:	1000 kg/m ³ Suc. Head min.: 1 m Solid % by weigh: Nil															
9 Vap. Press. @ P.T.:	Negligible bara Disch. Head: 110 m Sp.Gr. of Slurry:															
10 Visc. @ P.T.:	1 cP Disch. Press.: 11.03 barg Sp.Gr. of solids:															
11 NPSH avail:	7 m Diff.Head: 109 m Avg. particle size (50% passing): mm															
12 NPSH req'd:	m Max. particle size: mm															
DESIGN																
14 Mounting:	VERTICAL Radial brg. Type: Shaft Dia. @ cplg: mm															
15 Case Split:	Thrust brg. Type: Stuffing box:															
16 Support:	Brg. Lube: Base plate:															
17 Impeller type:	Closed Visible lubricator: Cplg. Mfr:															
18 Corrosion allow.:	NIL mm Coupling guard: Type:															
19 Cool. Media piping by:	Nozzle Position Size rating WEIGHT															
20 Cool. Media temp. in:	C° Suction Side 125#FF															
21 External Flux rate:	l/min Disch. Side 250#FF Weights Pump & cplg: kg															
22	Vent Base: kg															
23	Drain Total: kg															
24	Seal															
MATERIAL OF CONSTRUCTION																
SEAL																
26 Case:	See Spec. Latern ring Mfr.															
27 Impeller:	Bronze Throat bushing Model															
28 Discharge head:	C.S. Casing gasket Type Gland - soft packing															
29 Can:	C.S. Base plate Materials															
30 Shaft:	SS 316 Protection lining Seal flush plan Not required															
31 Shaft sleeve:	Material thick. mm															
PERFORMANCE																
33 Head:	m Rota.Facing pump cplg. Impeller width: mm															
34 Speed:	rpm Overall length mm Max diam: mm															
35 Efficiency:	% Overall width mm Min. diam: mm															
36 Absorbed Power:	kW Bid imp. Power kW Rated diam: mm															
37 Shut of head:	m Max. imp. Power kW Eye area: cm ²															
38 Min. cont. flow:	m ³ /hr No. of stages:															
39 Outline Drwg. No.:	Max Head bid impeller: m															
40 Cross sect No.:	Max. WP @ 20 C: barg															
41 Perform. Curve No.:	Hydro test pressure: barg															
42 Flow for best eff.:	1135 m ³ /hr															
43 Motor:	HP Supply By															
44 Rpm:	Tests Pump															
45 V/Ph/Cycle:	req. witnessed Base plate VENDOR															
46 Frame No.:	Shop inspection Y No Diesel Engine VENDOR															
47 Spec. No.:	Hydrostatic Y No RT. Angle Gear VENDOR															
48 Enclosure:	Performance Y No Coupling VENDOR															
49	NPSH Y No Guards VENDOR															
All missing details to be completed by vendor.																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNER</td> <td>מתכן</td> <td></td> </tr> <tr> <td>TAG. No.</td> <td>AREA</td> <td>PLANT: Energy Infrastructure Ltd, Kiryat Haim Term</td> </tr> <tr> <td>WP-4, WP-5</td> <td>J-4, J-5</td> <td>PROD. LINE:</td> </tr> <tr> <td colspan="3" style="text-align: center;">CANNED VERTICAL TURBINE PUMP DATA SHEET</td> </tr> <tr> <td>NO.</td> <td></td> <td>REV. PO</td> </tr> </table>		DESIGNER	מתכן		TAG. No.	AREA	PLANT: Energy Infrastructure Ltd, Kiryat Haim Term	WP-4, WP-5	J-4, J-5	PROD. LINE:	CANNED VERTICAL TURBINE PUMP DATA SHEET			NO.		REV. PO
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NO.		REV. PO														
P0 For Comments	ZS Zvi.S 12/9/21															
REV. DESCRIPTION	BY CHCK APPD DATE SHEET 1 OF 1															



Attachment "B"

Data sheet – Horizontal Centrifugal Pump

"PAZ" Engineering & Management (1980) Ltd. Tel: 04-8781900 Fax: 04-8709757				DATA SHEET FOR CENTRIFUGAL PUMP	
CLIENT: Infrastructure Ltd. Kiryat Haim Terminal				PROJECT: Fire Fighting System	
UNIT: PIMP HOUSESJ-4, J-5				SERVICE: FIRE FIGHTING WATER	
EQUIPMENT NO. WP-4, WP-5				NO. REQ'D 2	DRIVERS: DIESEL ENGINE
MFR.				SIZE & TYPE *	
1. OPERATING CONDITIONS EACH PUMP				2. PERFORMANCE	
Liquid; SWEET WATER FROM RESERVOIR		gpm at PT Min. (m ³ /hr)	Nor.	Rated: 5000 1135	Proposal Curve No.
		Disch. Press. PSI barg	Nor.	Rated : 160 11.03	RPM NPSHr (Water) m
PT °C Nor.	Max	Suct. Press. PSI Max	Nor.	Rated: flooded	Eff. BHP Rated
Liq SP. Gr. At PT		Diff. Press. 160 PSI (RATED)			Max. BHP Rated Imp.
Slurry. Sp. Gr. @ PT		Diff. Head. M	NPSHa m	6	Shut-off Head: 195 PSI
Vis. At PT CP 1.0		pH	Vap. Press @ PT Bar	NEGLIGIBLE	
Operation: <input type="checkbox"/> Sgl <input checked="" type="checkbox"/> Parallel:					Min. Continuous m ³ /hr
Liquid Composition % :		Solids S.G.	% by <input type="checkbox"/> WT <input type="checkbox"/> Vol.	Torque m- Kg @ Rpm	
		Description: Max Particle Size			WR ² Kg- m ²
				4. Tests	
				Non- With	With
				Performance	YES NO
				Hydrostatic	YES NO
				NPSH	YES NO
3. CONSTRUCTION					
Nozzles	Location	Size	Rating	Facing	Misc. Conn.
Suction	SIDE	16*	125#ASA ***	F.F.	
Discharge	SIDE	14*	250# ASA ***	F.F.	
Case - Mount. <input type="checkbox"/> Centerline <input type="checkbox"/> Foot <input type="checkbox"/> Bracket <input type="checkbox"/> Vert (Type) <input type="checkbox"/> In Line					
Rotation (Viewed From Cplg. End) Δ			No. Stages ONE		
Suction: <input type="checkbox"/> Sgl. <input checked="" type="checkbox"/> Dbi.		Case Split: <input type="checkbox"/> Radial <input checked="" type="checkbox"/> Axial		Shaft: STEEL	
Volute Type: Dbi		Impeller: <input checked="" type="checkbox"/> Closed <input type="checkbox"/> Opened <input type="checkbox"/>		Shaft Sleeve: BRONZE	
Impeller Dia: Rated Δ		Max. for Casing: Δ		min.: Δ	
Case Press: Max. Allow Barg @ °C		Test: Barg		Casing: BHN	
Bearings: Type: Radial		Thrust:		Impeller: BHN	
L10 Life Rating 25000		Hrs. Lube: OIL		Wear Rings: BHN	
Coupling: By/Type *		Mfr & Model:			
Packing: Mfr., Type, Size: SOFT PACKING				Base Plate: YES	
Mech. Seal: Mfr & Model: NOT REQUIRED				7. VERTICAL PUMPS	
Mfr Code:				Pit Or Sump Depth m	
Axial Thrust Balancing				Min. Water Level	
First Crit. Speed: RPM. Lining:				Mount: <input type="checkbox"/> Tank Outs. <input type="checkbox"/> Can type	
				<input type="checkbox"/> Tank Ins. <input type="checkbox"/> Pit.	
6. SEAL AND COOLING WATER					
Cooling Water m ³ /hr/Barg : NOT REQUIRED			Seals Piping Arr't:		
Bearings /			Disch: <input type="checkbox"/> Below <input type="checkbox"/> Above Mtg. Plate		
Stuff. Box /			Min. Submergence Req'd. m		
Pedestal /			Column Pipe: <input type="checkbox"/> Flanged <input type="checkbox"/> Threaded		
Total /			Line Shaft: <input type="checkbox"/> Open <input type="checkbox"/> Enclosed		
Seals Flush: <input type="checkbox"/> Internal			Brgs: <input type="checkbox"/> Bowl <input type="checkbox"/> Line Shaft		
<input type="checkbox"/> External: Liquid			Brg. Lube <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Grease		
m ³ /hr/Barg : /			Float & Rod <input type="checkbox"/> C.S. <input type="checkbox"/> S.S.		
			<input type="checkbox"/> Bronze <input type="checkbox"/> None		
8. MOTOR DRIVER BY ** /MOUNTED BY: *					
HP	RPM	Frame	V/ph/Cycl.	/ /	Float Switch
Mfr		Bearings	Lube		Pump Thrust, Kg <input type="checkbox"/> Up <input type="checkbox"/> Down
Type		Insulation	Full Load Amps		at Min/ Rated Flow /
Enc.	Temp Rise. °C	Locked Rotor Amps		Approx. Wt. Pump & Base:	
<input type="checkbox"/> VHS <input type="checkbox"/> VSS	Vert. Thrust Cap., Kg		Weight of Motor:		
NOTES: * By Vendor					
**Diesel Engine Vendor					
***The pump will be supplied with counter flanges					
Δ - To Be Completed By MFR					
					JOB NO. 4575.8
					SPEC. No.: 4575.8-014
P1	FOR APPROVAL	10.08.2021	M.H.	Z. S.	
P0	FOR COMMENTS	20.06.2021	M.H.	Z. S.	ORDER NO
REV	DESCRIPTION	DATE	BY	APPR'D	SH: 1 OFF 1

