





FAUJI TRANS TERMINAL LIMITED

FTTL STORAGE TERMINAL PROJECT

DATA SHEET FOR
RAW WATER PUMP (P-0502)

Consultant				Data Sheet			
<div></div> <div>ZISHAN ENGINEERS (PVT.) LTD.</div>				DATA SHEET FOR RAW WATER PUMP (P-0502)			
				Document No.		Revision	DATE
Client				123-6-DSM-032		A	17-06-2019
<div></div> <div>FAUJI TRANS TERMINAL LIMITED</div>				Prepared by	Checked by	Approved by	SHEET
				MW	RA	MM	2 OF 2
<div>Applicable To: <input checked="" type="radio"/> Proposals <input type="radio"/> Purchase <input type="radio"/> As Built</div> <div>Note: <input type="radio"/> Indicates information to be completed by purchaser.</div> <div><input type="radio"/> Indicates information to be completed by manufacturer.</div>							
For RAW WATER				Site PORT QASIM, KARACHI			
Unit RAW WATER PUMP				Service RAW WATER			
No. Pumps Req'd. 1 No. Motors Req'd 1				Provided By Mtd By 			
Item No. P-0502				Item Description 			
No. Engines Req'd. --- No. Turbines Req'd ----				Provided By Mtd By 			
Pump Mfr. 				Size and Type HORIZONTAL CENTRIFUGAL Serial No. 			
OPERATING CONDITIONS, EACH PUMP						PERFORMANCE (VTA)	
Liquid RAW WATER		Flow at PT. m ³ /hr (GPM) Nor. 11.4 (50) Rated 11.4 (50)		Proposal Curve No. 			
		Disch. Press. Bar (Psi G) 2.152 (31.2)		RPM NPSHR (Water) 			
PT.(°F) Nor. AMB Max. 		Suct. Press. Barg (Psi G) Min -0.348 (-5.1) Max 		Eff. BHP Rated 			
Sp.Gr. at PT. 1		Diff. Press. Bar (Psi) 2.5 (36.25)		Max. BHP rated IMP 			
Vap. Press. at PT. (psia) 1		Diff. Head m (ft) 25.5 (82.9)		Max. Head Rated IMP 			
Vis. at PT. cP 1		NPSHA m (ft) 2.5 (8.2)		gpm 			
Corr/Eros. Caused by 		Hyd.KW 0.80		Rotation (Viewed from CPLG End) 			
Location: <input type="radio"/> Indoor <input checked="" type="radio"/> Outdoor		Area: <input checked="" type="radio"/> Safe <input type="radio"/> Hazardous		Head rise to shut off 			
Working: <input type="radio"/> Continuous <input checked="" type="radio"/> Intermittent		<input type="radio"/> Random					
CONSTRUCTION						SHOP TESTS	
Nozzles		Size	Rating	Facing	Location	<input type="radio"/> Non-Wit. Perf. <input checked="" type="radio"/> Wit. Perf.	
Suction		VTS	VTS	RF		<input type="radio"/> Non-Wit. Hydro <input checked="" type="radio"/> Wit. Hydro	
Discharge		VTS	VTS	RF		<input type="radio"/> NPSH Req'd. <input checked="" type="radio"/> Wit. NPSH	
Case-mount: <input checked="" type="radio"/> Centerline <input type="radio"/> Foot <input type="radio"/> Bracket <input type="radio"/> Vert. (Type)						<input checked="" type="radio"/> Shop Inspection	
- Split: <input type="radio"/> Axial <input type="radio"/> Rad; Volute Type: <input type="radio"/> SGL <input type="radio"/> DBL <input type="radio"/> Diffuser						<input type="radio"/> Dismant. & Insp. After Test	
- Press: <input type="radio"/> Max. Allow, psig @ °C; <input type="radio"/> Hydro Test psig						<input checked="" type="radio"/> Inspection Required For Nozzle Welds.	
- Connect: <input type="radio"/> Vent <input type="radio"/> Drain <input type="radio"/> Gage						<input checked="" type="radio"/> Inspection Required For Casing	
Impeller Dia. : <input type="radio"/> Rated <input type="radio"/> Max. Type:						<input checked="" type="radio"/> Radiography <input checked="" type="radio"/> Ultrasonic	
Mount: <input type="radio"/> Between Bearings <input type="radio"/> Overhung						<input type="radio"/> Other	
Bearings-type: <input type="radio"/> Radial <input type="radio"/> Thrust						MATERIALS	
Lube: <input type="radio"/> Ring Oil <input type="radio"/> Flood <input type="radio"/> Oil Mist <input type="radio"/> Flinger <input type="radio"/> Pressure						MATERIAL CLASS	
Coupling: <input type="radio"/> Mfr. <input type="radio"/> Model						CASE	
Driver Mtd. By: <input type="radio"/> Pump Mfr. <input type="radio"/> Driver Mfr. <input type="radio"/> Purchaser						IMPELLER (S)	
Packing: <input type="radio"/> Mfr. & Type <input type="radio"/> Size/No. of Rings 						WEAR RING	
Mech. Seal: <input type="radio"/> Mfr. & Model 						SHAFT	
<input type="radio"/> Mfr. Code 							
AUXILIARY PIPING						VERTICAL PUMPS	
<input type="radio"/> C.W. Pipe Plan <input type="radio"/> CU <input type="radio"/> SS <input type="radio"/> Tubing; <input type="radio"/> Pipe						Pit or Sump Depth 	
<input type="radio"/> Total Cooling Water Req'd (m ³ /hr) req gpm <input type="radio"/> Sight F.I. Req'd 						Min. Submergence Req'd. 	
<input type="radio"/> Packing Cooling Injection Req'd: <input type="radio"/> Total . gpm <input type="radio"/> psig						Column Pipe: <input type="radio"/> Flanged <input type="radio"/> Threaded	
<input type="radio"/> Seal Flush Piping Plan <input type="radio"/> CS <input type="radio"/> SS <input type="radio"/> Tubing <input type="radio"/> Pipe 						Line Shaft: <input type="radio"/> Open <input type="radio"/> Enclosed	
<input type="radio"/> External Seal Flush Fluid <input type="radio"/> gpm <input type="radio"/> psig 						Brgs: <input type="radio"/> Bowl <input type="radio"/> Line Shaft 	
<input type="radio"/> Auxiliary Seal Plan <input type="radio"/> CS <input type="radio"/> SS <input type="radio"/> Tubing <input type="radio"/> Pipe 						Brg.Lube <input type="radio"/> Water <input type="radio"/> Oil <input type="radio"/> Grease	
<input type="radio"/> Aux. Seal Quench Fluid 						Float & Rod <input type="radio"/> CS <input type="radio"/> ss <input type="radio"/> BRZ <input type="radio"/> None	
						Float Switch 	
						Pump thrust,lb. <input type="radio"/> UP <input type="radio"/> Down 	
MOTOR DRIVER							
HP VTS RPM VTS Frame TEFC Volts/Phase/Cycles 400/3/50							
Mfr. VTS Bearings VTS							
Cooling Type VTS Insulation Class F Full Load Amps VTS							
Cable Entries VTS Temp. Rise(°C) Class B Locked Rotor Amps VTS							
Enclosure IP 55(min)						Approx. WT. Pump & Base 	
Starter DOL						Motor Turbine 	
NOTES:							
1) NPSH(A) at Pump suction Nozzle							
2) VTA: Vendor to Advise , VTC = Vendor To Confirm							
3) Temperature rise shall be adjusted for ambient temperature of 122 °F							
4) Vendor shall comply all requirements of pumps and its accessories according to the ANSI.							
5) VTS = Vendor To Specify							
6) Motor to be selected for end of curve operation							
7) Pump shall be suitable for suction lift of 12 Ft.							