







<b>Consultant:</b> 	<b>BANDAR ABBAS OIL STORAGE TERMINAL</b>					<b>Landlord:</b>  <b>Port &amp; Maritime Organization</b>
	<b>Technical Data Sheet for Fuel Oil Stripping Pump (P-106)</b>					<b>Employer:</b> 
	<b>Proj. Code</b>	<b>Proj.Part</b>	<b>Disc.Code</b>	<b>Doc.Type</b>	<b>Seq. No.</b>	<b>Rev.</b>
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# Technical Data Sheet for Fuel Oil Stripping Pump (P-106)

A0	2019/05/11	Issued for Information	R.Rahmani	N.Nourbakhsh	A.Ataollahi
<b>Rev.</b>	<b>Date</b>	<b>Description</b>	<b>Prepared</b>	<b>Checked</b>	<b>Approved</b>

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<b>Document Revision</b>																	
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1	APPLICABLE TO:	<input checked="" type="checkbox"/> PROPOSAL <input type="checkbox"/> PURCHASE <input type="checkbox"/> AS BUILT		PO NO.																																																													
2	FOR	Bana Gostar Karaneh (BGK)		UNIT																																																													
3	SITE	Bandar Shahid Rajae		NO. OF PUMPS REQUIRED	1																																																												
4	SERVICE	Fuel Oil Stripping Pump		SIZE AND TYPE																																																													
5	MANUFACTURER			SERIAL NO.																																																													
6	STANDARD	API 676																																																															
7	NOTE:	<input type="checkbox"/> INDICATES INFORMATION TO BE COMPLETED BY PURCHASER <input type="checkbox"/> BY MANUFACTURER <input checked="" type="checkbox"/> BY MANUFACTURER OR PURCHASER																																																															
8	GENERAL																																																																
9	NO. MOTORS DRIVEN	1	OTHER DRIVER TYPE																																																														
10	PUMP ITEM NO'S	P-106	PUMP ITEM NO'S																																																														
11	MOTOR ITEM NO'S	MP-106	DRIVER ITEM NO'S	GEAR ITEM NO'S																																																													
12	MOTOR PROVIDED BY	Pump vendor	DRIVER PROVIDED BY	GEAR PROVIDED BY																																																													
13	MOTOR MOUNTED BY	Pump vendor	DRIVER MOUNTED BY	GEAR MOUNTED BY																																																													
14	MOTOR DATA SHEET NO.		DRIVER DATA SHEET NO.	GEAR DATA SHEET NO.																																																													
16	<input type="checkbox"/> OPERATING CONDITIONS <input checked="" type="checkbox"/> PUMPED FLUID																																																																
17	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th></th> <th>MIN</th> <th>NORMAL</th> <th>RATED (2)</th> <th>MAX (1)</th> </tr> <tr> <td><input type="checkbox"/> CAPACITY: (m3/h)</td> <td></td> <td></td> <td>500</td> <td></td> </tr> <tr> <td><input type="checkbox"/> OTHER OPER CONDITIONS:</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> DISCHARGE PRESSURE: (bara)</td> <td></td> <td></td> <td>5.6</td> <td></td> </tr> <tr> <td><input type="checkbox"/> SUCTION PRESSURE: (bara)</td> <td></td> <td></td> <td>0.6</td> <td></td> </tr> <tr> <td><input type="checkbox"/> DIFFERENTIAL PRESSURE: bara</td> <td></td> <td></td> <td>5</td> <td></td> </tr> <tr> <td><input type="checkbox"/> NPSH AVAILABLE 6 (m)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> NPIP AVAILABLE (barA)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> NPSHa / NPIP DATUM: <input type="checkbox"/> C.L. SUCTION NOZZLE</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> TOP OF FOUNDATION</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> DUTY CYCLE <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> INTERMITTENT</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> HYDRAULIC POWER: (kW) <input type="checkbox"/> ABSORBED POWER: (Bkw)</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						MIN	NORMAL	RATED (2)	MAX (1)	<input type="checkbox"/> CAPACITY: (m3/h)			500		<input type="checkbox"/> OTHER OPER CONDITIONS:					<input type="checkbox"/> DISCHARGE PRESSURE: (bara)			5.6		<input type="checkbox"/> SUCTION PRESSURE: (bara)			0.6		<input type="checkbox"/> DIFFERENTIAL PRESSURE: bara			5		<input type="checkbox"/> NPSH AVAILABLE 6 (m)					<input type="checkbox"/> NPIP AVAILABLE (barA)					<input checked="" type="checkbox"/> NPSHa / NPIP DATUM: <input type="checkbox"/> C.L. SUCTION NOZZLE					<input checked="" type="checkbox"/> TOP OF FOUNDATION					<input type="checkbox"/> DUTY CYCLE <input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> INTERMITTENT					<input type="checkbox"/> HYDRAULIC POWER: (kW) <input type="checkbox"/> ABSORBED POWER: (Bkw)				
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20	<input type="checkbox"/> SPECIFIC HEAT 1.843																																																																
21	<input type="checkbox"/> CORROSIVE/EROSIVE AGENTS DESCRIPTION																																																																
22	<input type="checkbox"/> EROSION <input type="checkbox"/> CORROSIVE																																																																
23	<input type="checkbox"/> CHLORIDE CONCENTRATION (ppm)																																																																
24	<input type="checkbox"/> H <sub>2</sub> S CONCENTRATION (ppm)																																																																
25	<input type="checkbox"/> FLUID <input type="checkbox"/> HAZARDOUS <input checked="" type="checkbox"/> FLAMMABLE <input type="checkbox"/> OTHER																																																																
26	<input type="checkbox"/> GAS <input type="checkbox"/> ENTRAINED <input type="checkbox"/> SLUG FLOW % BY VOLUME or GVF																																																																
27	<input type="checkbox"/> SOLIDS PARTICLE SIZE DISTRIBUTION & MIN/MAX (μ)																																																																
28	<input type="checkbox"/> SHAPE <input type="checkbox"/> CONCENTRATION <input type="checkbox"/> HARDNESS																																																																
30	PERFORMANCE																																																																
31	<input type="checkbox"/> RATED CAPACITY (m3/h)																																																																
32	<input type="checkbox"/> NPSHa / NPIP REQUIRED (m)																																																																
33	<input type="checkbox"/> RATED SPEED (rpm)																																																																
34	<input type="checkbox"/> RATED VOLUMETRIC EFFICIENCY (%)																																																																
35	<input type="checkbox"/> RATED PUMP EFFICIENCY (%)																																																																
36	<input type="checkbox"/> REQUIRED POWER @ MAXIMUM VISCOSITY (Bkw)																																																																
37	<input type="checkbox"/> REQUIRED POWER @ PRESSURE LIMITING VALVE (Bkw)																																																																
38	<input type="checkbox"/> REQUIRED POWER @ RATED CONDITION (Bkw)																																																																
39	<input type="checkbox"/> MAXIMUM ALLOWABLE SPEED (rpm)																																																																
41	CONSTRUCTION																																																																
42		SIZE	ANSI RATING	FACING	POSITION																																																												
43	CONNECTIONS																																																																
44	SUCTION			RF																																																													
45	DISCHARGE			RF																																																													
46	GLAND FLUSH																																																																
47	DRAINS *																																																																
48	VENTS *																																																																
49	JACKET																																																																
50	* PIPE VENTS & DRAINS TO EDGE OF BASEPLATE																																																																
51	PUMP TYPE																																																																
52	<input checked="" type="checkbox"/> INTERNAL GEAR <input checked="" type="checkbox"/> TWIN-SCREW <input checked="" type="checkbox"/> VANE <input type="checkbox"/> LOBE																																																																
53	<input checked="" type="checkbox"/> EXTERNAL GEAR <input checked="" type="checkbox"/> 3-SCREW <input checked="" type="checkbox"/> PROGRESSING CAVITY																																																																
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58	REMARKS:																																																																
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APPLICABLE SPECIFICATIONS:				
API-676 POSITIVE DISPLACEMENT PUMPS - ROTARY				
<input type="checkbox"/> GOVERNING SPECIFICATION (IF DIFFERENT)				
<input type="checkbox"/> NACE MR0103 (6.13.2.13) <input type="checkbox"/> NACE MR0175				
<input type="checkbox"/> OTHER				

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<p><b>1 CONSTRUCTION</b></p> <p><b>2 CASING</b></p> <p>3 <input type="checkbox"/> MAX. ALLOWABLE CASING PRESS. (6.3.1): _____ (barG) @ _____ (°C)</p> <p>4 <input type="checkbox"/> MAXIMUM ALLOWABLE SUCTION PRESSURE: _____ (barG) @ _____ (°C)</p> <p>5 <input checked="" type="checkbox"/> HYDROSTATIC TEST PRESSURE - Suct / Disch: <u>1.5 x MAWP</u> (barG)</p> <p><b>6 ROTATING ELEMENTS</b></p> <p>7 ROTOR MOUNT <input checked="" type="checkbox"/> BTWN. BEARINGS <input type="checkbox"/> OVERHUNG</p> <p>8 TIMING GEARS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> TYPE _____</p> <p>9 BEARING TYPE: <input type="checkbox"/> RADIAL <input type="checkbox"/> THRUST</p> <p>10 BEARING NUMBER: <input type="checkbox"/> RADIAL <input type="checkbox"/> THRUST</p> <p>11 LUBRICATION TYPE: <input checked="" type="checkbox"/> CONSTANT LEVEL OILERS</p> <p>12 <input type="checkbox"/> PUMPED FLUID <input checked="" type="checkbox"/> RING OIL <input checked="" type="checkbox"/> OIL MIST</p> <p>13 <input type="checkbox"/> EXTERNAL <input type="checkbox"/> OIL FLOOD <input type="checkbox"/> GREASE</p> <p>14 <input type="checkbox"/> LUBRICANT Info (Visc, etc) _____</p> <p><b>15 MECHANICAL SEALS</b> (Note 1)</p> <p>16 <input type="checkbox"/> MANUFACTURER AND MODEL _____</p> <p>17 <input type="checkbox"/> MANUFACTURER CODE _____</p> <p>18 <input checked="" type="checkbox"/> API 682 AND DATA SHEETS _____</p> <p>19 <input checked="" type="checkbox"/> API 682 SEAL FLUSH PLAN _____</p> <p>20 <input type="checkbox"/> API 682 SEAL CODE _____</p> <p><b>22 DRIVER TYPE</b></p> <p>23 <input checked="" type="checkbox"/> INDUCTION MOTOR <input type="checkbox"/> STEAM TURBINE <input type="checkbox"/> GEAR <input type="checkbox"/> OTHER</p> <p><b>24 DRIVE MECHANISM</b></p> <p>25 <input checked="" type="checkbox"/> DIRECT-COUPLED <input type="checkbox"/> ASD <input type="checkbox"/> OTHER</p> <p>26 <input checked="" type="checkbox"/> COUPLING MANUFACTURER _____</p> <p>27 <input checked="" type="checkbox"/> COUPLING TYPE _____</p> <p>28 <input type="checkbox"/> RATING (MAX TORQUE) _____ <input checked="" type="checkbox"/> MODEL _____</p> <p>29 <input checked="" type="checkbox"/> SPACER LENGTH <u>Min 150 mm</u> (IN) <input checked="" type="checkbox"/> S.F. <u>3</u></p> <p>30 <input checked="" type="checkbox"/> COUPLING BALANCED <input type="checkbox"/> MANF STD <input type="checkbox"/> AGMA 9000 CLASS 10 (7.2.3)</p> <p>31 <input checked="" type="checkbox"/> COUPLING PER API 671 (7.2.4)</p> <p>32 <input checked="" type="checkbox"/> COUPLING HUB ATTACHMENT</p> <p>33 <input type="checkbox"/> STRAIGHT <input type="checkbox"/> KEYED <input type="checkbox"/> TAPERED</p> <p><b>34 COUPLING GUARD TYPE</b></p> <p>35 <input type="checkbox"/> STEEL <input type="checkbox"/> BRASS <input type="checkbox"/> NON-METALLIC <input type="checkbox"/> OTHER</p> <p>36 <input checked="" type="checkbox"/> NON SPARK COUPLING GUARD (7.2.15) _____</p> <p><b>38 MOTOR DRIVER</b></p> <p>39 <input type="checkbox"/> IEEE 841 <input type="checkbox"/> API 541 <input type="checkbox"/> API 546 <input type="checkbox"/> OTHER</p> <p>40 <input type="checkbox"/> ASD SUPPLIED BY <input type="checkbox"/> PURCHASER <input type="checkbox"/> MOTOR SUPPLIER</p> <p>41 <input type="checkbox"/> MANUFACTURER _____ <input type="checkbox"/> TYPE _____</p> <p>42 <input type="checkbox"/> FRAME _____ <input checked="" type="checkbox"/> ENCLOSURE <u>TEFC, EEExd, IP 65</u></p> <p>43 <input checked="" type="checkbox"/> HORIZONTAL <input checked="" type="checkbox"/> VERTICAL</p> <p>44 <input type="checkbox"/> (KW) _____ (rpm) _____</p> <p>45 <input type="checkbox"/> VOLTS <u>6000</u> PHASE <u>3</u> HERTZ <u>50</u> SERVICE FACTOR _____</p> <p>46 <input type="checkbox"/> VARIABLE SPEED RANGE _____ (rpm) _____</p> <p>47 <input type="checkbox"/> MINIMUM STARTING VOLTAGE (7.1.2.2) _____</p> <p>48 <input checked="" type="checkbox"/> INSULATION _____ <input type="checkbox"/> TEMP. RISE _____</p> <p>49 <input checked="" type="checkbox"/> FULL LOAD AMPS _____</p> <p>50 <input checked="" type="checkbox"/> LOCKED ROTOR AMPS _____</p> <p>51 <input checked="" type="checkbox"/> STARTING METHOD _____</p> <p>52 <input checked="" type="checkbox"/> LUBE _____</p> <p>53 BEARINGS (TYPE/NUMBER):</p> <p>54 <input type="checkbox"/> RADIAL _____ / _____</p> <p>55 <input type="checkbox"/> THRUST _____ / _____</p>	<p><b>MATERIALS (Note 3)</b></p> <p><input type="checkbox"/> MIN DESIGN METAL TEMP <u>0</u> (°C)</p> <p><input type="checkbox"/> CASING _____</p> <p><input type="checkbox"/> STATOR / LINER _____</p> <p><input type="checkbox"/> END PLATES _____</p> <p><input type="checkbox"/> ROTOR (S) _____</p> <p><input type="checkbox"/> VANES _____</p> <p><input type="checkbox"/> SHAFT _____</p> <p><input type="checkbox"/> SLEEVE (S) _____</p> <p><input type="checkbox"/> GLAND (S) _____</p> <p><input type="checkbox"/> BEARING HOUSING _____</p> <p><input type="checkbox"/> TIMING GEARS _____</p> <p><input type="checkbox"/> ELASTOMERS / GASKETS _____</p> <p><b>QA INSPECTION AND TEST</b></p> <p><input type="checkbox"/> SPECIAL MATERIAL TESTS (See design codes + weld + inspection sheet)</p> <p><input type="checkbox"/> LOW AMBIENT TEMP. MATERIALS TESTS (6.13.6.5)</p> <p><input checked="" type="checkbox"/> COMPLIANCE WITH INSPECTORS CHECK LIST</p> <p><input checked="" type="checkbox"/> CERTIFICATION OF MATERIALS</p> <p><input checked="" type="checkbox"/> SURFACE / SUBSURFACE EXAMS</p> <p><input type="checkbox"/> RADIOGRAPHY _____</p> <p><input checked="" type="checkbox"/> ULTRASONIC _____</p> <p><input checked="" type="checkbox"/> MAGNETIC PARTICLE _____</p> <p><input type="checkbox"/> LIQUID PENETRANT _____</p> <p><input type="checkbox"/> COMPONENT PMI _____</p> <p><input type="checkbox"/> HARDNESS OF PARTS, WELDS &amp; HEAT AFFECTED ZONES</p> <p><input checked="" type="checkbox"/> VENDOR SUBMIT TEST PROCEDURES (8.3.1.2)</p> <p><input checked="" type="checkbox"/> SUPPLIER TO KEEP REPAIR AND HT RECORDS (8.2.1.1)</p> <table border="1"> <thead> <tr> <th></th> <th>NON-WIT</th> <th>WIT</th> <th>OBSERV</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> SHOP INSPECTION (8.1)</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> HYDROSTATIC (8.3.2)</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> WITH WETTING AGENT</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> PERFORMANCE (8.3.4)</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> RETEST ON SEAL LEAKAGE</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> NPSH / NPIP (8.3.7.1)</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> TRUE PEAK VELOCITY DATA</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> COMPLETE UNIT TEST (8.3.7.2)</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> SOUND LEVEL TEST (8.3.7.3)</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> CLEANLINESS PRIOR TO FINAL ASSEMBLY (8.2.3.3)</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> HIGH DISCHARGE PRESSURE @ PLV</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> CHECK FOR CO-PLANAR AT MOUNTING PAD SURFACES (7.4.7)</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> 1 HR MECHANICAL RUN TEST AFTER OIL TEMP STABLE (8.3.5.1)</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> 4 HR. 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<b>Consultant:</b>  	<b>BANDAR ABBAS OIL STORAGE TERMINAL</b>					<b>Landlord:</b>  Port & Maritime Organization P.M.O
						<b>Employer:</b> 
	<b>Technical Data Sheet for fuel oil stripping pump (P-106)</b>					
	<b>Proj. Code</b> 1312	<b>Proj.Part</b> DT1	<b>Disc.Code</b> MA	<b>Doc.Type</b> DS	<b>Seq. No.</b> 1007	

Notes	
1	N1 To be advised by vendor.
2	N2 Cooling water is not available at site.
3	N3 Material to be advised by vendor.
4	N4 Performance and mechanical running tests shall be carried out according to project's ITP.
5	N5 Noise level : max. 85 db(a) at 1 m distance from noise source.
6	N6 For site data refer to "utility and site condition" of project.
7	N7 Mechanical seal data sheet shall be submitted by vendor as per API 682.
8	N8 Rotary pump design, construction, material, testing, performance during FAT shall strictly be in line with API 676, any deviation
9	shall be notified to the Employer during proposal stage.
10	N9 Please refer to spec. for Induction Motor : MUCME-146101-ELC-TS-011_Rev.C
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