

CENTRIFUGAL PUMP DATA SHEET

PROPS. NO. : B4A4589010
 JOB NO. : 13072I
 ITEM NO. : P-026-111 A/B
 P. O. NO. :
 REQ'N NO. : RG2158-102
 INQ. NO. :
 BY : ARJUN DESAI
 DATE : AUG-27-2014 REV. :

APPLICABLE TO: ☐ PROPOSALS ☒ PURCHASE ☐ AS BUILT
 NOTE: ☐ INDICATES INFORMATION TO BE COMPLETED PURCHASER
☐ BY MANUFACTURER

FOR Kuwait National Petroleum Company SITE Mina Al-Ahmadi Refinery
 UNIT PROCESS SERVICE ISOM FEED PUMPS
 NO. PUMPS 2 NO. MOTORS 2 ITEM NO. PROVD. BY EBARA CORP. MTD. BY EBARA CORP.
 NO. TURBINES ITEM NO. PROVD. BY MTD. BY
 PUMP MFR. EBARA CORPORATION SIZE AND TYPE 150X80UCWM40N SERIAL NO.

OPERATING CONDITIONS EACH PUMP						PERFORMANCE	
LIQUID <u>HYDROCARB-</u>	<u>M3/H</u>	at PT. NOR.	<u>110</u>	RATED	<u>121</u>	PROPS. CURVE NO.	<u>B4A-026111-102</u>
<u>ON</u>		DISCH. P.	<u>BAR(G)</u>		<u>14.6</u>	MIN-1	<u>2980</u> NPSHR(WATER) M <u>3.4</u>
PT. °C NOR. <u>73</u> MAX. <u>73</u>		SUCT. P.	<u>BAR(G)</u>	MAX. <u>4.954</u> RATED	<u>1.37</u>	EFF.	<u>54.0</u> % BHP RATED KW <u>82.2</u>
DENSITY. at PT. KG/L <u>0.614</u>		DIFF. P.	<u>BAR</u>		<u>13.14</u>	MAX. BHP RATED IMP.	KW <u>127.9</u>
VAP. PRESS. at PT. <u>BAR(A)</u>	<u>2.08</u>	DIFF. HEAD	<u>M</u>		<u>219.2</u>	MAX. HEAD RATED IMP.	M <u>226.1</u>
VIS. at PT. <u>CP</u>	<u>0.186</u>	NPSHA.	<u>M</u>		<u>5.3</u>	MIN. CONTINUOUS	M3/H <u>54.2</u>
CORR. / EROS.		HYD.	<u>KW</u>		<u>44.4</u>	ROTATION (VIEWED FROM CPLG END)	<u>CW</u>

CONSTRUCTION					SHOP TESTS	
NOZZLES	SIZE	RATING	FACING	LOCATION	<input type="radio"/> NON-WIT. PERF.	<input checked="" type="radio"/> WIT. PERF.
SUCTION	<u>6"</u>	<u>ANSI 300LB</u>	<u>RF</u>	<u>END</u>	<input type="radio"/> NON-WIT. HYDRO.	<input checked="" type="radio"/> WIT. HYDRO.
DISCHARGE	<u>3"</u>	<u>ANSI 300LB</u>	<u>RF</u>	<u>TOP</u>	<input type="radio"/> NPSH REQ'D	<input type="radio"/> WIT. NPSH
CASE-MOUNT: <input checked="" type="checkbox"/> CENTERLINE <input type="checkbox"/> FOOT <input type="checkbox"/> BRACKET <input type="checkbox"/> VERT. (TYPE)					<input checked="" type="checkbox"/> SHOP INSPECTION	
-SPLIT: <input type="checkbox"/> AXIAL <input checked="" type="checkbox"/> RAD. TYPE VOLUTE <input type="checkbox"/> SGL. <input checked="" type="checkbox"/> DBL. <input type="checkbox"/> DIFFUSER					<input type="radio"/> DISMANT. & INSP. AFTER TEST	
-PRESS: <input checked="" type="checkbox"/> MAX. ALLOW. <u>34.4</u> BAR(G) <u>103</u> °C <input checked="" type="checkbox"/> HYD. TEST <u>63</u>					<input type="radio"/> OTHER	
-CONNECT: <input type="checkbox"/> VENT <input checked="" type="checkbox"/> DRAIN <input type="checkbox"/> GAGE						
IMP. DIA: (MM) <input checked="" type="checkbox"/> RATED <u>410</u> <input checked="" type="checkbox"/> MAX. <u>430</u> <input checked="" type="checkbox"/> TYPE <u>CLOSED</u>						
MOUNT: <input type="checkbox"/> BETWEEN BRGS. <input checked="" type="checkbox"/> OVERHUNG <input type="checkbox"/>						
BEARINGS TYPE: <input checked="" type="checkbox"/> RADIAL <u>BALL</u> <input checked="" type="checkbox"/> THRUST <u>BALL</u>						
LUBE: <input type="checkbox"/> RING OIL <input type="checkbox"/> FLOOD <input type="checkbox"/> OIL MIST <input checked="" type="checkbox"/> FLINGER <input type="checkbox"/> PRESSURE <input type="checkbox"/> GREASE						
COUPLING: <input checked="" type="checkbox"/> MFR. <u>METASTREAM Eq.</u> <input checked="" type="checkbox"/> MODEL <u>T-Series Eq.</u>						
DRIVER HALF MTD. BY: <input checked="" type="checkbox"/> PUMP MFR. <input type="radio"/> DRIVER MFR. <input type="radio"/> PURCHASER						
PACKING: <input type="checkbox"/> MFR. & TYPE <input type="checkbox"/> SIZE / NO. RINGS						
MECH. SEAL <input checked="" type="checkbox"/> MFR. & MODL <u>JOHN CRANE Eq.</u>						
<input type="checkbox"/> MFR. CODE <u> </u> API CLAS. CODE <u>BDT</u>						

MATERIALS

TABLE MAT. CLASS ☒ S-6BASEPLATE: ☐

VERTICAL PUMPS

☐ MIN. SUBMERGENCE REQ. ☐

COLUMN PIPE: ☐ FLANGED ☐ THREADED

LINE SHAFT: ☐ OPEN ☐ ENCLOSED

BRGS: ☐ BOWL ☐ LINE SHAFT

BRG. LUBE: ☐ WATER ☐ OIL ☐ GREASE ☐ SELF LIQUID

FLOAT & ROD ☐ C.S. ☐ S.S. ☐ BRZ. ☐ NONE

FLOAT SWITCH ☐

PUMP THRUST ☐ UP ☐ DOWN

APPROX. MASS PUMP & BASE KG

MOTOR S.T.

AUXILIARY PIPING

☒ C.W. PIPE PLAN ☒ C.S. ☐ S.S. ☐ TUBING ☒ PIPE

☒ TOTAL COOLING WATER REQ. M3/H 1.86 ☐ SIGHT F. I. REQ.

☐ PACKING INJECTION REQ. ☐ TOTAL ☐

☒ SEAL PIPE PLAN 11 ☒ C.S. ☐ S.S. ☐ TUBING ☒ PIPE

☐ EXTERNAL FLUID ☐

☒ AUX. SEAL PLAN 53B ☒ C.S. ☐ S.S. ☐ TUBING ☒ PIPE

☐ AUX. SEAL QUENCH FLUID

MOTOR DRIVER

KW 110 MIN-1 3000 FRAME VOLTS / PHASE / HZ / / 50

MFR. BEARINGS LUBE

TYPE INSUL. FULL LOAD AMPS

ENC. TEMP. RISE LOCKED ROTOR AMPS

☐ VHS ☐ VSS VERT. THRUST CAP. ITEM NO.

API STANDARD 610 GOVERNS UNLESS OTHERWISE NOTED



EBARA CORPORATION