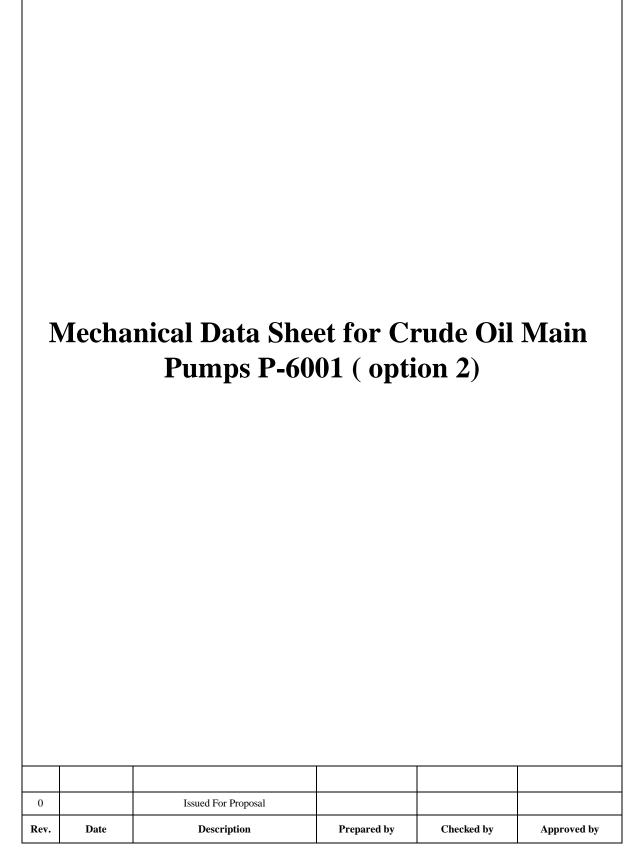
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Contract No.:	Proj. Code	Phase D	Discipline	e Type	Seq. No	o. 1	<b>Rev.</b>	_	Page	3 of 6
2 FOR PETROLEUM ENGINEERING					Crude oil Storage					
3 SITE JASK CRUDE OIL STORAG 5 INFORMATION BELOW TO E					ht & Heavy Crude			TURER OR F		ED
6 ITEM NO.	ATTACHED	ITEM NO.			ITEM NO.	ATTACH		5	UKCHAS	BY
7 PUMP P-6001 A/B/C/D/E/F/G/H	•		C	)		0	1			
8 MOTOR PM-1001 A/B/C/D/E/F/G/H	•		C			0	2			
9 GEAR	0			-		0	3			
10 TURBIN 11 APPLICABLE OVERALL STANDARI		Edition	C C	<b>)</b>		U	4			
	• •				•		-			
12	ING CONDITIONS (5.	-				LIQUID (5.1		-		
13 FLOW NORMAL <u>1364</u> (m3/ 14 OTHER				HAZARDOUS	5 🗣 FLAMMA	ABLE				(5.1.5)
15 16 SUCTION PRESSURE MAX./ MIN	7.9 / 0.22	/ "	bard) Di	UMPING TEMP (						Min. 15
17 DISCHARGE PRESSURE RATED	14.93		barg) V/		E (bara)					
18 DIFFERENTIAL PRESSURE	14.7	(t	bar) RE	ELATIVE DENSI	(SG)		0.88	·····	·····	
19 DIFF. HEAD <b>170.5</b> (m)	NPSHA	<b>6</b> (r	m) VI	ISCOSITY (mPa.	s)		27			
20 PROCESS VARIATION (5.1.4)			SF	PECIFIC HEAT K	J/(kg-K)		1.964			2
21 STARTING CONDITIONS (5.1.4)					ONCENTRATION	(6.5.2.4)	<50			(ppm)
22 SERVICE: <b>O</b> CONT ● 23 ● PARALLEL OPERATION REQ'D		ARTS/DAY)		H2S CONCE ORROSIVE / ERG						(5.12.1.12c)
				OKKOSIVE / EK	JOINE AGEINT				•••••	(5.12.1.9)
24	ITE DATA (5.1.3)									
25 LOCATION: (5.1.30)					MAT	FERIALS (5.	12.1.1) (R	emark 1)		
26 O INDOOR O HEATED	OUTDOOR	UNHEATE	ED	ANNEX H CL	ASS (5.12.1.1) METAL TEMP (5.1	S6 (coi	nplying w	ith NACE	MR-017	5)
29 30 WINTERIZATION REQ'D 31 SITE DATA (5.1.30) 32 ALTITUDE <b>5.0</b> (m)		ION REQ'D	(mmHgr)	BARREL/CAS	ARDNESS MATER SE A216 Gr.Wo LLER WEAR RING A479 UNS S4100	CB IMI SS	PELLER A747 Cb7	A 487 Ca ' Cu-1	15C	
33 RANGE OF AMBIENT TEMPS: N	JIN / MAX 6 ./	<b>50</b> (°	°C)		0		RMANCE	:		
34			PF		/E NO.		□			<i>.</i> .
35 ● RELATIVE HUMIDITY: MIN / M/ 36 UNUSUAL CONDITIONS: (5.1.30) 37 ● OTHER <b>Remark7</b> 38	• DUST	5%/93% O FUME		IMPELLER D IMPELLER T						(mm)
•				RATED POW	ER NTINUOUS FLOV	(K\	N) EFF	ICIENCY		(%)
	DRIVE TYPE				ER	(K) V:	N) EFF			(%)
		O CEAR		MINIMUM CO	ER	(K\ V: (m3/h)	N) EFF STABLE			(%) (m3/h)
40 • INDUCTION MOTOR •	STEAM TURBINE	O GEAR		THERMAL	ONTINUOUS FLOW	(K\ V: (m3/h)	N) EFF STABLE			(%) (m3/h) (m3/h)
40 • INDUCTION MOTOR •	STEAM TURBINE			<ul> <li>MINIMUM CO</li> <li>THERMAL</li> <li>PREFERRED</li> <li>ALLOWABLE</li> </ul>	ER DNTINUOUS FLOW	(K\ V: (m3/h)	N) EFF STABLE	TO TO		(%) (m3/h) (m3/h) (m3/h)
40 ● INDUCTION MOTOR ● 41 ● OTH <u>ER</u> 42	STEAM TURBINE			THERMAL PREFERRED ALLOWABLE MAX HEAD @	ER DNTINUOUS FLOV OPER REGION OPER REGION @ RATED IMPELLE	(K) (m3/h) ER	N) EFF STABLE	TO TO		(%) (m3/h) (m3/h) (m3/h) (m)
40 ● INDUCTION MOTOR ● 41 ● OTH <u>ER</u> 42 43 ● MOTOR DRIV	STEAM TURBINE	emark 4)		MINIMUM CC THERMAL PREFERREL ALLOWABLE MAX HEAD ( MAX POWER	ER DNTINUOUS FLOV OPER REGION © OPER REGION © RATED IMPELLE R @ RATED IMPELL	(K) V: (m3/h) ER 	N) EFF STABLE	TO TO TO		(%) (m3/h) (m3/h) (m3/h) (m) (w)
40 INDUCTION MOTOR 41 OTHER 42 43 MOTOR DRIV 44 MANUFACTURER	STEAM TURBINE /ER (6.1.1 / 6.1.4)( Re	emark 4)		<ul> <li>MINIMUM CO</li> <li>THERMAL</li> <li>PREFERRED</li> <li>ALLOWABLE</li> <li>MAX HEAD (</li> <li>MAX POWEF</li> <li>NPSHR AT R</li> </ul>	ER DNTINUOUS FLOV OPER REGION OPER REGION RATED IMPELLE R @ RATED IMPELL ATED FLOW	(K) (m3/h) ER ER	N) EFF	TO TO		(%) (m3/h) (m3/h) (m3/h) (m) (kw) (m) (5.1.10)
40 INDUCTION MOTOR 41 OTHER 42 43 MOTOR DRIV 44 MANUFACTURER 45 FRAME	STEAM TURBINE /ER (6.1.1 / 6.1.4)( Re (kw)	emark 4) (r SSURE		MINIMUM CC THERMAL PREFERRED ALLOWABLE MAX HEAD ( MAX POWEF NPSHR AT R MAX SOUND	ER OPER REGION OPER REGION RATED IMPELLE RATED IMPELLE RATED FLOW N SPECIFIC SPEE PRESS. REQ'D	(K\ (m3/h) ER LER ED <	N) EFF STABLE		t surface	(%) (m3/h) (m3/h) (m3/h) (m) (kw) (m) (5.1.10) (5.1.11) (dBA)
40 INDUCTION MOTOR 41 OTHER 42 43 MOTOR DRIV 44 MANUFACTURER 45 MANUFACTURER 46 FRAME 47 HORIZONTAL O VERTIC.	STEAM TURBINE /ER (6.1.1 / 6.1.4)( Re (kw)	emark 4) SURE RVICE FACTOR		MINIMUM CC THERMAL PREFERREC ALLOWABLE MAX HEAD ( MAX POWEF NPSHR AT R MAX SOUND EST MAX SOUND	ER DNTINUOUS FLOV OPER REGION © OPER REGION © RATED IMPELLE © RATED IMPELLE © RATED IMPELLE © RATED IMPELLE NSPECIFIC SPEE PRESS. REQ'D UND PRESS. LEV	(K\ (m3/h) ER LER ED	N) EFF STABLE		t surface	(%) (m3/h) (m3/h) (m3/h) (kw) (m) (5.1.10) (5.1.11) (dBA) (dBA)
40 INDUCTION MOTOR 41 OTHER 42 43 MOTOR DRIV 44 MANUFACTURER 45 MANUFACTURER 45 HORIZONTAL VERTIC. 48 VOLTS/PHASE/HERTZ 6KV	STEAM TURBINE /ER (6.1.1 / 6.1.4)( Re (kw) ENCLO SAL SE ±10% 3pl	emark 4) SURE RVICE FACTOR		MINIMUM CC THERMAL PREFERREC ALLOWABLE MAX HEAD ( MAX POWEF NPSHR AT R MAX SOUND EST MAX SOUND	ER OPER REGION OPER REGION RATED IMPELLE REGRATED IMPELLE REGRATED FLOW NSPECIFIC SPEE PRESS. REQ'D UND PRESS. LEV UND POWER LEV	(K) V: (m3/h) ER LLER ED < ED < EL EL	N) EFF STABLE 213 ter from th	TO TO	t surface	(%) (m3/h) (m3/h) (m3/h) (m) (kw) (m) (5.1.10) (5.1.11) (dBA)
40 INDUCTION MOTOR 41 OTHER 42 43 MOTOR DRIV 44 MANUFACTURER 45 AMANUFACTURER 45 HORIZONTAL VERTIC. 48 VOLTS/PHASE/HERTZ 6KV 49 TYPE Squirrel Cage Induction	STEAM TURBINE /ER (6.1.1 / 6.1.4)( Re (kw) ENCLO (kw) SENCLO AL SENCLO A	emark 4) SURE RVICE FACTOR	r/min)	MINIMUM CC THERMAL PREFERREC ALLOWABLE MAX HEAD ( MAX POWEF NPSHR AT R MAX SOUND EST MAX SOUND	ER OPER REGION OPER REGION RATED IMPELLE REGRATED IMPELLE REGRATED FLOW NSPECIFIC SPEE PRESS. REQ'D UND PRESS. LEV UND POWER LEV	(K) V: (m3/h) ER LLER ED &\$56B at 1 me EL (EL TILITY CON	N) EFF STABLE 213 ter from th	TO	t surface	(%) (m3/h) (m3/h) (m3/h) (w) (kw) (m) (5.1.10) (5.1.11) (dBA) (dBA) (dBA)
40 INDUCTION MOTOR 41 OTHER 42 43 MOTOR DRIV 44 MANUFACTURER 45 MANUFACTURER 46 FRAME 47 HORIZONTAL VERTIC. 48 VOLTS/PHASE/HERTZ 6KV 49 TYPE Squirrel Cage Induction 50 MINIMUM STARTING VOLTAGE 51 INSULATION Class F	STEAM TURBINE /ER (6.1.1 / 6.1.4)( Re (kw) ENCLO (kw) SENCLO AL SENCLO A	emark 4) SSURE RVICE FACTOR h 50 Hz±29	r/min)	MINIMUM CC THERMAL PREFERREL ALLOWABLE MAX HEAD ( MAX POWER NPSHR AT R MAX SUCTIC MAX SOUND EST MAX SOU	IER OPER REGION OPER REGION COPER REGION RATED IMPELLE REGION RATED FLOW NSPECIFIC SPEE UND PRESS. LEV UND PRESS. LEV UND POWER LEV UND POWER LEV UND POWER LEV	(K) V: (m3/h) ER LER ED \$54B at 1 me EL CL TILITY CON EE	N) EFF STABLE 213 ter from th	TO	t surface	(%) (m3/h) (m3/h) (m3/h) (m) (kw) (m) (5.1.10) (5.1.11) (dBA) (dBA) (dBA)
40 INDUCTION MOTOR 41 OTHER 42 43 MOTOR DRIV 44 MANUFACTURER 45 MANUFACTURER 46 FRAME 47 HORIZONTAL VERTIC 48 VOLTS/PHASE/HERTZ 6KV 49 TYPE Squirrel Cage Induction 50 MINIMUM STARTING VOLTAGE 51 DISULATION Class F 52 FULL LOAD AMPS	STEAM TURBINE           /ER (6.1.1 / 6.1.4)( Re           (kw)         Image: Comparison of the second seco	emark 4) SSURE RVICE FACTOR h 50 Hz±29	r/min)	<ul> <li>MINIMUM CC</li> <li>THERMAL</li> <li>PREFERREL</li> <li>ALLOWABLE</li> <li>MAX HEAD (</li> <li>MAX POWEF</li> <li>NPSHR AT R</li> <li>MAX SUCTIC</li> <li>MAX SUCTIC</li> <li>MAX SUCTIC</li> <li>EST MAX SOUND</li> <li>EST MAX SO</li> <li>EST MAX SO</li> <li>LECTRICITY DRIVERS HEATING</li> </ul>	ER OPER REGION OPER REGION OPER REGION RATED IMPELLE R @ RATED IMPELLE ATED FLOW IN SPECIFIC SPEE PRESS. REQ'D UND POWER LEV UND POWER LEV UND POWER LEV OVITAG 6KV±10' 400/230'	(K) V: (m3/h) ER ELER EL EL TILITY CON SE SE SE V±10%	N)         EFF           STABLE	TO	t surface HER 50 h 50 h	(%) (m3/h) (m3/h) (m3/h) (w3/h) (kw) (m) (5.1.10) (5.1.11) (dBA) (dBA) (dBA) (dBA) (dBA) (zBA)
40 INDUCTION MOTOR 41 OTHER 42 43 MOTOR DRIV 44 MANUFACTURER 44 MANUFACTURER 45 HORIZONTAL VERTIC 46 FRAME 47 HORIZONTAL VERTIC 49 VOLTS/PHASE/HERTZ KKV 49 VTYPE Squirrel Cage Inductiv 50 MINIMUM STARTING VOLTAGE 51 SULATION Class F 52 FULL LOAD AMPS 53 LOCKED ROTOR AMPS	STEAM TURBINE	emark 4) SSURE RVICE FACTOR h 50 Hz±29	r/min)	<ul> <li>MINIMUM CC</li> <li>THERMAL</li> <li>PREFERREL</li> <li>ALLOWABLE</li> <li>MAX HEAD (</li> <li>MAX POWEF</li> <li>NPSHR AT R</li> <li>MAX SUCTIC</li> <li>MAX SUCTIC</li> <li>MAX SUCTIC</li> <li>EST MAX SOUND</li> <li>EST MAX SO</li> <li>EST MAX SO</li> <li>LECTRICITY DRIVERS HEATING</li> </ul>	ER DNTINUOUS FLOV OPER REGION COPER REGION RATED IMPELLE R @ RATED IMPELLE ATED FLOW NN SPECIFIC SPEE PRESS. REQ'D UND PRESS. LEV UND POWER LEV UND POWER LEV UND POWER LEV UND FLOWER LEV UND POWER LEV COMPANY COM	(K) V: (m3/h) ER LLER ED S5GB at 1 me EL (EL TILITY CON DE S6 %	N)         EFF           STABLE	TO	t surface HER 50 h 50 h	(%) (m3/h) (m3/h) (m3/h) (m) (kw) (m) (5.1.10) (5.1.11) (dBA) (dBA) (dBA) (dBA)
40 INDUCTION MOTOR 41 OTHER 42 43 MOTOR DRIV 44 MANUFACTURER 45 MANUFACTURER 46 FRAME 47 HORIZONTAL VERTIC 48 VOLTS/PHASE/HERTZ KV 49 TYPE Squirrel Cage Induction 50 MINIMUM STARTING VOLTAGE 51 INSULATION Class F 52 FJUL LOAD AMPS 53 LOCKED ROTOR AMPS 54 STARTING METHOD	STEAM TURBINE           /ER (6.1.1 / 6.1.4)( Re           (kw)         Image: Comparison of the second seco	emark 4) SSURE RVICE FACTOR h 50 Hz±29		MINIMUM CC THERMAL PREFERREC ALLOWABLE MAX HEAD ( MAX POWEF MAX SOUNC MAX SOUNC EST MAX SO EST MAX SO	ER OPER REGION OPER REGION RATED IMPELLE RATED IMPELLE RATED IMPELLE RATED FLOW N SPECIFIC SPEE UND POWER LEV UND POWER LEV VOLTAGE DIP	(K) (m3/h) ER LLER ED <u>&lt;</u> 85dB at 1 me EL TILITY CON DE M Val 10% 85%	W) EFF STABLE 213 ter from th DITIONS PHASE 3 ph S/1 ph	TO	HER 50 h	(%) (m3/h) (m3/h) (m3/h) (kw) (m) (5.1.10) (5.1.11) (dBA) (dBA) (dBA) (dBA) (dBA) (dBA)
40 INDUCTION MOTOR 41 OTHER 42 43 MOTOR DRIV 44 MANUFACTURER 44 MANUFACTURER 45 HORIZONTAL VERTIC 46 FRAME 47 HORIZONTAL VERTIC 49 VOLTS/PHASE/HERTZ KKV 49 VTYPE Squirrel Cage Inductiv 50 MINIMUM STARTING VOLTAGE 51 SULATION Class F 52 FULL LOAD AMPS 53 LOCKED ROTOR AMPS	STEAM TURBINE	emark 4) SURE RVICE FACTOR h 50 Hz±2° RISE Class B		<ul> <li>MINIMUM CC</li> <li>THERMAL</li> <li>PREFERREL</li> <li>ALLOWABLE</li> <li>MAX HEAD (</li> <li>MAX POWEF</li> <li>NPSHR AT R</li> <li>MAX SUCTIC</li> <li>MAX SUCTIC</li> <li>MAX SUCTIC</li> <li>EST MAX SOUND</li> <li>EST MAX SO</li> <li>EST MAX SO</li> <li>LECTRICITY DRIVERS HEATING</li> </ul>	ER OPER REGION OPER REGION OPER REGION RATED IMPELLE R @ RATED IMPELLE ATED FLOW IN SPECIFIC SPEE PRESS. REQ'D UND POWER LEV UND POWER LEV UND POWER LEV OVITAG 6KV±10' 400/230'	(K) V: (m3/h) ER ELER EL EL TILITY CON SE SE SE V±10%	W) EFF STABLE 213 ter from th DITIONS PHASE 3 ph S/1 ph	TO	HER 50 h	(%) (m3/h) (m3/h) (m3/h) (w3/h) (kw) (m) (5.1.10) (5.1.11) (dBA) (dBA) (dBA) (dBA) (dBA) (zBA)
40 INDUCTION MOTOR 41 OTHER 42 43 MOTOR DRIV 44 MANUFACTURER 45 MANUFACTURER 46 FRAME 47 HORIZONTAL VERTIC 48 VOLTS/PHASE/HERTZ KV 49 TYPE Squirrel Cage Induction 50 MINIMUM STARTING VOLTAGE 51 INSULATION Class F 52 FULL LOAD AMPS 53 LOCKED ROTOR AMPS 54 STARTING METHOD 55 LUBE	STEAM TURBINE /ER (6.1.1 / 6.1.4) ( Re (kw) ENCLO AL 1210% 3pt on Motor E 85% TEMP F DOL	emark 4) SURE RVICE FACTOR h 50 Hz±29 RISE Class B		MINIMUM CC THERMAL PREFERRED ALLOWABLE MAX HEAD ( MAX POWEF NPSHR AT R MAX SOUND EST MAX SOUND EST M	ER OPER REGION OPER REGION RATED IMPELLE RATED IMPELLE RATED IMPELLE RATED FLOW N SPECIFIC SPEE UND POWER LEV UND POWER LEV VOLTAGE DIP	(K) (m3/h) ER LLER ED <u>&lt;</u> 85dB at 1 me EL TILITY CON DE M Val 10% 85%	W) EFF STABLE 213 ter from th DITIONS PHASE 3 ph S/1 ph	TO	HER 50 h	(%) (m3/h) (m3/h) (m3/h) (kw) (m) (5.1.10) (5.1.11) (dBA) (dBA) (dBA) (dBA) (dBA) (dBA)
40 INDUCTION MOTOR 41 OTHER 42 43 MOTOR DRIV 44 MANUFACTURER 45 MANUFACTURER 46 FRAME 47 HORIZONTAL VERTIC. 48 VOLTS/PHASE/HERTZ 6KV 49 TYPE Squirrel Cage Induction 50 MINIMUM STARTING VOLTAGE 51 INSULATION Class F 52 FULL LOAD AMPS 53 LOCKED ROTOR AMPS 54 STARTING METHOD 55 LUBE 56 DEGREE OF PROTECTION 57 58 BEARING (TYPE/NUMBER):	STEAM TURBINE	emark 4) SURE RVICE FACTOR h 50 Hz±29 RISE Class B		<ul> <li>MINIMUM CC</li> <li>THERMAL</li> <li>PREFERREL</li> <li>ALLOWABLE</li> <li>MAX HEAD (</li> <li>MAX POWER</li> <li>NPSHR AT R</li> <li>MAX SOUND</li> <li>EST MAX SOUN</li></ul>	ER DNTINUOUS FLOV OPER REGION OPER REGION RATED IMPELLE R @ RATED IMPELLE ATED FLOW NN SPECIFIC SPEE PRESS. REQU UND PRESS. LEV UND POWER LEV VOLTAGE 6KV±10' 400/230' TAGE DIP MAX. PRESS : (5.1.19)	(K) V: (m3/h) ER EL ER Sold at 1 me EL TILITY CON SE Solve at 5 MAX TI MAX TI SOURCE	W) EFF STABLE 213 213 ter from th DITIONS PHASE 3 ph 3/1 ph O EMP EMP	TO	HER 50 h 50 s	(%) (m3/h) (m3/h) (m3/h) (m) (kw) (m) (5.1.10) (5.1.11) (dBA) (dBA) (dBA) (dBA) (dBA) (dBA) (dBA) (dBA)
40 INDUCTION MOTOR 41 OTHER 42 43 MOTOR DRIV 44 MANUFACTURER 45 MANUFACTURER 46 FRAME 47 HORIZONTAL VERTIC 48 VOLTS/PHASE/HERTZ KKV 49 VTYPE Squirrel Cage Induction 50 MINIMUM STARTING VOLTAGE 51 DISULATION Class F 52 FULL LOAD AMPS 53 LOCKED ROTOR AMPS 54 STARTING METHOD 55 LUBE 56 DEGREE OF PROTECTION 57 58 BEARING (TYPE/NUMBER): 59 RADIAL	STEAM TURBINE	emark 4) SURE RVICE FACTOR h 50 Hz±29 RISE Class B	r/min)	<ul> <li>MINIMUM CC</li> <li>THERMAL</li> <li>PREFERECE</li> <li>ALLOWABLE</li> <li>MAX HEAD (</li> <li>MAX POWEF</li> <li>MAX SOUND</li> <li>EST MAX S</li></ul>	ER DNTINUOUS FLOV OPER REGION COPER REGION RATED IMPELLE R @ RATED IMPELLE R @ RATED IMPELLE ATED FLOW NN SPECIFIC SPEE PRESS. REQU UND PRESS. LEV UND POWER LEV VOLTAGE 6KV±10' 400/230' TAGE DIP MAX. PRESS :: (5.1.19)	(K) V: (m3/h) ER ED ED SOURCE MAX TH SOURCE (°C)	W) EFF STABLE 213 213 ter from th DITIONS PHASE 3 ph 3/1 ph 3/1 ph O EMP EMP	TO	HER 50 h 50 s	(%) (m3/h) (m3/h) (m3/h) (m) (kw) (m) (5.1.10) (5.1.11) (dBA) (dBA) (dBA) (dBA) (dBA) (dBA) (dBA) (dBA) (dBA)
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40 INDUCTION MOTOR 41 OTHER 42 43 MOTOR DRIV 44 MANUFACTURER 45 MANUFACTURER 46 FRAME 47 MORIZONTAL VERTIC. 48 VOLTS/PHASE/HERTZ 6KV 49 TYPE Squirrel Cage Induction 50 MINIMUM STARTING VOLTAGE 51 INSULATION Class F 52 FULL LOAD AMPS 53 LOCKED ROTOR AMPS 54 DEGREE OF PROTECTION 55 BEARING (TYPE/NUMBER): 59 RADIAL 60 THRUST 61 VERTICAL THRUST CAPACITY 10 VERTICAL THRUST CA	STEAM TURBINE	emark 4) DSURE RVICE FACTOR h 50 Hz±29 RISE Class B r al Box (N)	r/min)	MINIMUM CC THERMAL PREFERREC ALLOWABLE MAX HEAD ( MAX POWEF MAX SOUND EST MAX SOUND MAX SOUND EST M	ER OPER REGION OPER REGION OPER REGION RATED IMPELLE RATED IMPELLE RATED FLOW NSPECIFIC SPEE PRESS. REQ'D UND PRESS. LEV UND POWER LEV UND POWER LEV UND POWER LEV UND POWER LEV COLTAG 6KV±10' 400/230' TAGE DIP MAX. PRESS : (5.1.19)	(K) V: (m3/h) ER LLER ED CEL (FL TILITY CON SE MAX TI SOURCE (°C) (Mpa) (Mpa)	W) EFF STABLE 213 213 213 213 213 213 213 213 213 213	TO TO TO TO (5.1.3) OTHER MIN. PRES TURN TEN I PRESS LOW D P	HER 50 h 50 h	(%) (m3/h) (m3/h) (m3/h) (kw) (m) (5.1.10) (5.1.11) (dBA) (dBA) (dBA) (dBA) (dBA) (dBA) (dBA) (dBA) (dBA) (dBA) (dBA) (dBA)

Petro Omid Asia JA SK Crude						e Oil Pipeline and JASK Storage onstruction Program Oil Storage Tanks Project						
SCE	IJATLUU TIRAN		Mech	anical Data	Sheet fo	or Crude Oil Main	Pumps( opti	ion 2)	تشرک بی مندمی و مانتین نست تشرکت بی مندمی و مانتین نست			
Contract No	.:		Proj. Code	Phase	Discip	line Type	Seq. No.	<b>Rev.</b> 0	Page 4 of 6			
			TRUCTION						D DAINT			
ROTATION: (VIE				cw 🗖 ccv	N	O MANUFACTURER'S		PREPARATION AN	O OTHER (SEE BELOW)			
PUMP TYPE: (4. BB1 CASING MOUNT CENTER	PUMP TYPE: (4.1) REMARK 6 BB1 0 BB2 0 BB3 0 BB5 CASING MOUNTING: CENTERLINE NEAR CENTERLINE FOOT						MANUFACTURER'S STANDARD     OTHER (SEE BELOW)     SPECIFICATION NO:      PUMP:     PUMP SURFACE PREPARATION     PRIMER					
FOOT CASING SPLIT:						FINISH COAT BASEPLATE: (6.3.17)						
AXIAL CASING TYPE: SINGLE VOL BETWEEN B CASE PRESSUI	BEARINGS RE RATING:		DIAL ILTIPLE VOLUTE D BARREL SURE 40		DIFFUSER	DETAILS OF LIFT SHIPMENT: (7.4.1)		3.20)	BOXING REQUIRED			
15 @ ☐ HYDROTES <sup>®</sup> ● SUCTION PF 18	T PRESSURE RESSURE RE	(°C) 1.5 GION MUS	x MAWP	(Mpa) FOR MAWP (5.3.6)	)	OUTDOOR STORAGI     OUTDOOR STORAGI     SPACE ROTOR ASSEMB     SHIPPING CONTAINI     TYPE OF SHIPPING I	E MORE THAN 6 BLY PACKED FOR ER (8.2.8.3) PREPARATION	MONTH :: VERTICAL STOP N2 PURGE (8.2.	RAGE (8.2.8.2) 8.4)			
				1	1	0		TING AND COOLIN	-			
20 21	SIZE (DN)	FLANG RATIN		POSITION					DLING REQ'D			
SUCTION	*	300	R.F			C.W PIPING:	W) FIFING FLAN	(0.5.5.1)				
DISCHARGE	*	300	R.F				TUBING					
BALANCE DRUI						C.W. PIPING MATERIALS						
25 PRESSURE	CASING AUX.	CONNEC	FIONS: (5.4.3)		Ì	O <sub>S STEEL</sub>	O <sub>C STEEL</sub>		IIZED			
26		NO.	SIZE (DN)	TYPE		COOLING WATER REQU						
		1							(Мра)			
VENT OPRESS GAU	IGF.	1				HEAT EXCHANG			(Mpa)			
TEMP GAUG									TION			
						BEARING (TYPE/NUMBE	R) (5.10.1):					
						RADIAL SLEEVE	/	REMARK 2				
			CTIONS (5.4 3.8)			THRUST TILTING LUBRICATION (5.11.3 5.1	5 PAD 1.4):					
ROTOR: COMPONEN	IT BALANCE T LIMITED ,OVE 2. <b>2)</b>	TO ISO 194 EMENT IMP	0 G1 0 (5.9.4.4) PELLERS (8.2.2.3)	DEL Meta Stream	*	<ul> <li>RING OIL</li> <li>CONSTANT LEVEL C</li> <li>PRESSURE LUBE SY</li> <li>OIL VISC ISO GRADE</li> <li>OIL PRESS TO BE G</li> </ul>	HYDRODYNAMIC DILER PREFEREN YS ISO 10438-3 E REATER THAN C	O PURGE OIL ICE (5.10.2.2):	MIST O PURE OIL MIST O ISO 10438-2 (8.2.6.1/8.2.6.5)			
RATING (kw	per 100 r/min)					O REVIEW AND APPROVE THRUST BEARING SIZE (8.2.5.2d)						
O SPACER LEI DRIVER HALF	-COUPLING N	(mm) IOUNTED		E FACTOR at le	ast 1.5	O OIL HEATER REQUIRED: O STEAM O ELECTRIC INSTRUMENTATION (6.4.2)						
-				PURCHASER		O SEE ATTACHED API						
						O ACCELEROMETER(S O PROVISION FOR VIB		S (6.4.2.2)				
							PER BRG		L PER BRG			
						O PROVISION FOR MO	OUNTING ONLY (5	.10.2.11)				
<ul> <li>COUPLING F</li> <li>NON-SPARK</li> </ul>		,				<ul> <li>FLAT SURFACE REC</li> <li>RADIAL BEARING MI</li> </ul>			UST BRG METAL TEMP			
			) 14120 for less th	an 3800 RPM	(6.2.14a)	O TEMP GAUGE (WITH THERMOWELLS) O MONITORS AND CABLES SUPPLIED BY (6.4.2.4)						
API BASEPL			(A	NNEX D)		REMARKS		51 (0.4.2.4)				
			3)									
MECHANICAL S	EAL: (5.8.1)	Do	uble Mechanical Se	eal is required (note Il be submitted by v								
			ith his proposal"					MASSES (kg)				
58 MECH. SEAL I	MANUFACTURE	R:ACCORD	NG TO PROJECT V	ENDOR LIST		PUMP		BASEPL	ATE			
59 PREFERRED	MANUFACTURE	R: BURGMA	N/JOHN CRANE/FLC	WSERVE		DRIVER		TOTAL				
60						GEAR						

Petro Omid Asia	GORE	Tanks Construction Program JASK Crude Oil Storage Tanks Project Mechanical Data Sheet for Crude Oil Main Pumps( option 2)								
			Disciplin			on 2) Rev.	ت Pa	مرکت ورمذی راندی راندی در ge 5 of 6		
					0	14	5000			
	E PARTS (TABLE	-			QA INSPEC	TION AND TEST	, <i>,</i>			
-	NORMAL MAINTEN Years Operation	IANCE		<u>TEST</u> HYDROSTATIC (	7 3 2)					
				<ul> <li>PERFORMANCE</li> </ul>	,	ŏ	ě	ŏ		
OTHER PU	RCHASER REQUI	REMENTS		• NPSH (7.3.4.2)		0	•	0		
COORDINATION MEETING REP	QUIRED (9.1.3)			<ul> <li>RESET ON SEAL</li> </ul>	. L'KGE (7.3.3.2d)	0	•	Ō		
<ul> <li>MAXIMUM DISCHARGE PRES</li> <li>MAX RELATIVE DENSITY</li> </ul>		E (5.3.2)		• RESET REQUIRE HEAD ADJUSTM	D AFTER FINAL	õ	Ō	ŏ		
		S				0	•	0		
O OPERATION TO TRIP SPE O CONNECTION DESIGN APPRO		1 4)		<ul> <li>SOUND LEVEL T</li> <li>CLEANLINESS P</li> </ul>	, ,		0	0		
<ul> <li>CONNECTION DESIGN APPRO</li> <li>INERT GAS INHIBITED STORA</li> </ul>				FINAL ASSEMBL		•	•	•		
O TORSIONAL ANALYSIS REQU				NOZZLE LOAD T	EST (6.3.6)	•	0	0		
	RT (5.9.2.6)			O CHECK FOR VO		0	0	0		
<ul> <li>PROGRESS REPORTS (9.3.3)</li> <li>OUTLINE OF PROCEDURES F</li> </ul>	OR OPTIONAL TES	STS (9,2.5)		MOUNTING PAD	SURFACES (6.3.3) JN UNITE OIL	0	0	0		
O ADDITIONAL DATA REQUIRING				TEMP STABLE (7		~	-	-		
		3)		• 4 h MECHANICA		0	•	0		
DYNAMIC BALANCE ROTOR ( MANIFOLD PIPING TO SINGLE	,	5 1 6)		OIL TEMP STABI	,	0	0	0		
			LING WATER	O TRUE PEAK VEL	. ,	ŏ	ŏ	ŏ		
MOUNT SEAL RESERVOIR OF FLANGES REQ'D IN PLACE OF				(7.3.3.4d) O BRG HSG RESO	NANCE TEST	0	0	0		
CONNECTION BOLTING	~			(7.3.4.6)		~	~	~		
O PTFE COATING O PAINTED	<ul> <li>ASTM A153 G/</li> <li>SS</li> </ul>	ALVANIZED				0	0	0		
● INSTALLATION LIST IN PROPO				AFTER TEST (8.2						
QA INS	PECTION AND TES	STING			DMENT TEST	0	0	0		
SHOP INSPECTION (7.1.4)				(7.3.4.5)	FMENT 1231					
PERFORMANCE CURVE APPI	۶.			CHARPY TEST (I	EN 13445/ASME VIII	0	0	0		
							0	0		
<ul> <li>MATERIAL CERTIFICATION RE</li> <li>CASING</li> </ul>	QUIRED (5.12.1.8) MPELLER	SHAP	-т	<b>0</b>			ŏ	0		
• OTHER WEAR RING	AND MECHANIC	AL SEAL			REPAIR AND HT RE	CORDS(7.2.1.1c)		-		
CASING REPAIR PROCEDURE	APPROVAL REQ	D (5.12.2.5)		~	T TEST PROCEDUR		)			
<ul> <li>INSPECTION REQUIRED FOR</li> <li>MAG PARTICLE</li> </ul>	CONNECTION WE		REMARK 3	<ul> <li>VENDOR SUBMI</li> <li>INCLUDE PLOTT</li> </ul>		,				
				RECORD FINAL.		, ,	S			
● INSPECTION REQUIRED FOR	CASTINGS (7.2.1.3	i)(5.12.1.5) F	REMARK 3		FINSPECTION CHE	CK LIST (7.1.6)				
MAGI PARTICLE				Nata						
<ul> <li>RADIOGRAPHIC</li> <li>HARDNESS TEST REQUIRED:</li> </ul>	UL TRANS	(7.2.2.3)		Note:						
ADDITIONAL SURFACE/SUBS	JRFACE EXAMINA	, ,								
FOR NACE Comp	iant Material									
METHOD										
				REMARKS						
1. VENDOR SHALL SUBMIT ALL P	UMP PART MATER	RIALS IN HIS PRO	OPOSAL.							
2. VENDOR SHALL SUBMIT BEAR										
3- VENDOR SHALL SELECT ONE	OF MENTIONED IN	SPECTION BASE	ON HIS EXPER	IENCE.						
4-MOTORS FOR CENTRIFUGAL PL	IMPS SHALL HAV	E POWER RATIN	G ≥ THE FOLLOWIN	NG PERCENTAGE OF PUN	IP DESIGN BHP:					
MOTOR RATING ≤ 18.5 KW	125%									
MOTOR RATING ≥ 22 KW ≤ 55⊮										
MOTOR RATING ≥ 75 KW	110%									
5-PUMP SHALL BE SIZED FOR OP	EN VALVE START	ING CONDITION.								
6-PUMP TYPE SHALL BE FINALIZI										
7-MOTOR SHALL BE EQUIPPED W	ITH 2 RTD'S PER	PHASE IN THE S	TATOR WINDING	G.(TOTAL 6 NO.)						
8-VENDOR SHALL FOLLOW AND	SUPPLY TABLE 2	0 OF API 610, 111	TH EDITION FOR	START-UP AND NOR	MAL MAINTENANC	E (TYPICALLY T	WO YEARS).			
9- PLAN 13+53B IS RECOMMEND	D. AIR-COOLED H	IEAT EXCHANGE	R SHALL APPLY	( IN PLAN 53B.						
	URPOSES, AIR C									

پترو امید اسیا Petro Omid Asia	GOREH-JA	orage	A Contraction of the second se			
SCETIRAN	Mechanical	on 2)	شرکت بی مندی د مانمان نفت			
Contract No.:	Proj. Code Ph	ase Discipline	Туре	Seq. No.	<b>Rev.</b> 0	Page 6 of 6
PPLICABLE TO: PI	TANKS PROJECT	PANY (PEDEC) UNIT	E Light & Hea		sfer Pump	
OTE: INFORMATION BELOW TO B	E COMPLETED: O BY F	PURCHASER D BY N	MANUFACTURE	R Q <sub>BYM</sub>	ANUFACTURER OR	PURCHASER
		SIGN (5.3.4) (TABLE 3)				
ELDING AND REPAIRS (5.12.3)						
THESE REFERENCES MUST BE I ALTERNATIVE MATERIAL INSPEC Welding Requirement (Applicable (	TIONS AND ACCEPTANCE ( Code or Standard)	CRITERIA (SEE TABLE 13)	TABLE 10 IF NO		ERENCE IS STATEI Default p	D) Der Table 10
		ding procedure qualification	• as per ASN	IE section IX	0	
Non-pressure-retair	ing structural welding such a	as baseplates of supports	0		•	
Magnetic par	ticle or liquid penetrate exam	Postweld heat treatment	0 0 0		•	
	postweld heat treatment of	casing fabrication welds	0		•	
ATERIAL INSPECTION (7.2.2.1) (7 THESE REFERENCES MUST BE ALTERNATIVE MATERIAL INSPEC	LISTED BY THE PURCHASE	CRITERIA (SEE TABLE 13)			ERENCE IS STATEI	
vpe of inspection Radiography	Methods		O For fabrication		Casings	
Ultrasonic inspection	0		0		0	
Magnetic Particle Inspection	0		0		0	
Liquid penetrate inspection	0		0		0	
		REMAR	KS			
		****	~~~~~~			~~~~~~~