

نگهداشت و افزایش تولید میدان نفتی بینک سطحالارض



شماره صفحه: 1 از 9

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

MECHANICAL DATA SHEETS FOR FIRE WATER JOCKEY PUMPS

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 اووژه

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 PEDCO
 120
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 DT
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 D02

طرح نگهداشت و افزایش تولید 27 مخزن

MECHANICAL DATA SHEETS FOR FIRE WATER JOCKEY PUMPS (P-2302 A/B)

نگهداشت و افزایش تولید میدان نفتی بینک

Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval
D00	FEB. 2022	IFC	H. Adineh	M. Fakharian	M. Mehrshad	
D01	APR. 2022	IFA	H. Adineh	M. Fakharian	M. Mehrshad	
D02	JUL. 2022	IFA	H. Adineh	M. Fakharian	M. Mehrshad	

Class: 2 CLIENT Doc. Number: F0Z-708859

status: IDC: Inter-Discipline Check

IFC: Issued For Comment
IFA: Issued For Approval
AFD: Approved For Design
AFC: Approved For Construction
AFP: Approved For Purchase
AFQ: Approved For Quotation
IFI: Issued For Information

AB-R: As-Built for CLIENT Review

AB-A: As-Built –Approved



نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:			MECHANICA	L DATA SHEE	TS FOR FIRE	WATER JOC	KEY PUMPS	
	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه
	BK	GCS	PEDCO	120	ME	DT	0028	D02

شماره صفحه: 2 از 9

REVISION RECORD SHEET

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نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

٥			MECHANICA	L DATA SHEE	ETS FOR FIRE	WATER JOO	CKEY PUMPS		
سریال نوع مدر ک رشته تسهیلات صادر کننده بسته کاری پروژه									
	BK	GCS	PEDCO	120	ME	DT _^	0028	D02	

شماره صفحه: 3 از 9

GENERAL NOTES

D02`

- 1 Vendor shall fill in the blanks and return the completed data sheet along with Motor data sheet, "DOC NO.: BK-GCS-PEDCO-120-EL-DT-0008 & 0009 with his proposal.
- 2 Vendor shall submit ITP (Inspection & Testing Plan) with his proposal.

شماره پیمان:

- 3 Vendor is requested to confirm the material, or propose appropriate alternative.
- 4 For Instrumentation, Project specification 'Specification For Instrument and Control of package Unit System (PU)' Doc. No. BK-GNRAL-PEDCO-000-IN-SP-0004, shall be followed.
- 5 Mechanical seal data sheet shall fill in by vendor as per API 682, 4th edition.
- 6 NPSH test shall be done & witnessed if the margin of NPSHr & NPSHa is less than 1.
- 7 The Tie-in flanges shall conform to ASME B-16.1.
- 8 Pump drain shall be terminated at skid edge with flange connection and valved.
- 9 Supplier to indicate which minimum flow pumps can achieve.
- 10 Nozzle loads shall be 2 times the loads shown in API 610 11th Edition.
- 11 Electrical motor shall be rated for the end of curve.
- 12 The Suction line size is 2 " and discharge line is 2 ".
- 13 Pump Manufacturer shall supply all instrumentation for mechanical seals as per API 682 4th Edition and project requirements.
- 14 Based on project instrumentation specification, these equipments are classified as Type C. Electro pump shall include a dedicated controller/ starter panel installed on pump skid as per NFPA 20 (2019). Pressure switch and pressure sensing line and its accessories are in vendor scope of work and supply.
- 15 Welding repair procedures shall be submitted for approval.
- 16 If pump is self venting there is no need for vent .
- 17 For information on site conditions refer to Process Basis of Design document; Doc.No: BK-GNRAL-PEDCO-000-PR-DB-0001., any required protection for pumps in this regard shall be considered by pump manufacturer.
- 18 Ultrasonic Test shall be performed for forged shaft.
- 19 Couplings shall be dry, flexible and spacer type.
- 20 For electrical motor descriptions, refer to 'Specification For LV Induction Motors' Doc. No. BK-GNRAL-PEDCO-000-EL-SP-0010.
- A local control panel shall be considered by vendor to be located next to the pumps as per "Specification For Fire Water Network", Doc.No.BK-GCS-PEDCO-120-SA-PI-0001. Pump LCP shall be designed to manage all required monitoring and control signals as minimum in accordance with "P&ID For Fire Water Network", Doc.No.BK-GCS-PEDCO-120-SA-PI-0001.
- 22 Pressure sensing lines are in the vendor's scope of supply.



GEAR TURBINE

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

 MECHANICAL DATA SHEETS FOR FIRE WATER JOCKEY PUMPS

 نسخه سربال نوع مدر که
 رشته نسجیلات صادر کننده بسته کاری پروژه

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شماره صفحه: 4 از 9

	CE	NTRIFUGAL PU	JMP DATA SHEET (SI UNIT) - P-2302 A/B (She	eet 1 of 6)		
	CLIENT:	Nationa	al Iranian South Oil Company (NISOC)			
	PROJECT TITLE:	BINAK	Gas Compressor Station			
	JOB NUMBER:		•			
	EQUIPMENT NUMBER:					
	EQUIPMENT SERVICE:					
	SERIAL NUMBER:	·				
	REQ. / SPEC NO. :		S-PEDCO-120-ME-SP-0005			
	PURCH ORDER NO.					
C 11						
Cells	coloured thus contain drop-dow					
	contain calculated	l values based	on input data; do not change.			
	identify a cross re	ferenced parag	raph in the document note, and may also	contain a drop down list		
***	hen you have completed the DS, highlight the wi		. 11			
	COMMENTS:					
	-					
			DATA SHEETS			
DV D CD		TT	ITEM No.	ATT	ITEM No.	A
PUMP	P-2302 A	ES	P-2302 B	YES		





احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

 MECHANICAL DATA SHEETS FOR FIRE WATER JOCKEY PUMPS

 شماره پیمان:

 سریال نوع مدر ک رشته تسهیلات صادر کننده بسته کاری پروژه

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شماره صفحه: 5 از 9

			CENTRIFUGAI	L PUMP DATA SHE	ET (SI UNIT) - P-2302 A/B (Sheet 2 of 6)			
APPLICABLE TO: PROPO	OSAL			APPI	ICABLE NTL/INTNTL STANDARD:	NFI	PA20 (2019) & IPS-M-PM-125	
FOR NISOC				UNIT				
SITE BINAK Gas Compresso	or Station			SERV			 ,	
NO. REQ 2 (1+1)	PUMP SI	7E		TYPE		No. STAGES	1	
MANUFACTURER	1 CIVIT 31.	ZE		MOD		SERIAL NO.	V.T.A.	
MARKETACTOREK					ARACTERISTICS	SERIAL NO.	V + Z + CZ+	
	Units	Maximum	Minimum	Note	SERVICE :		INTERMITTENT	
LIQUID TYPE OR NAME :	Units	Water	Millilliulii	_	• IF INTERMITTENT NO. OF STARTS :		INTERMITTENT	
VAPOR PRESSURE :			0.1210	Max & min				
	bara	0.0087	0.1219	values refer	PUMPS OPERATE IN:			
DENSITY:	kg/m³		97	only to the	CORROSION DUE TO: (6.12.1.9)			
SPECIFIC HEAT :	kj/kgC	4.	186	property	EROSION DUE TO: (6.12.1.9)			
VISCOSITY:	cР		D02 `	listed	H2S CONCENTRATION (ppm) : (6.12.1.12)			N.A.
		TING CONDITIONS (6.	_		CHLORIDE CONCENTRATION (ppm):			
	Units	Maximum		ormal Min	PARTICULATE SIZE (DIA IN MICRONS)			
NPSH _A Datum:			C.L. Impeller		PARTICULATE CONCENTRATION (PPM)			
PUMPING TEMPERATURE :	°C	50		5	_			
FLOW:	m ³ /hr		15.0					
DISCHARGE PRESSURE :(6.3.2)	barg		10.8					
SUCTION PRESSURE :	barg	0.95	0.73	0.10				
DIFFERENTIAL PRESSURE :	bar		9.9					
DIFFERENTIAL HEAD :	m		101.2					
NPSH _A :	m		6.9					
HYDRAULIC POWER:	KW		4.50					
				SITE AND U	JTILITY DATA			
LOCATION:					COOLING WATER:		1 1	
	UNHEATED		DER ROOF	=		RETURN	DESIGN	
MOUNTED AT:		 TROPICALISA 			TEMP	-		
ELECTRIC AREA CLASSIFICATIO	ON: (6	5.1.22) ZONE	SAFE	=	PRESS.			
GROUP		TEMP CLASS		_	SOURCE			
SITE DATA :					COOLING WATER CHLORIDE CONC			
ELEVATION (MSL): 12.5	m	BAROMETER		00.77 mB	ar INSTRUMENT AIR:	kg	MIN kg	
RANGE OF DESIGN TEMPS:MIN / M	IAX	5	85 °C		STEAM	1	1	
RELATIVE HUMIDITY: MIN / MAX		0	100 %	(@ 25.6 °C)		DRIVERS HEATIN	NG	
UNUSUAL CONDITIONS:		NA			TEMP			
UTILITY CONDITIONS:		1	T.		PRESS.			
ELECTRICITY: DRIVERS	HEATING	CONTROL	SHUTDOWN					
VOLTAGE 400				_			^	
PHASE 3								
HERTZ 50				- "				
	l	PERFORMANCE				DRIVER (7.1.5) (NOTES 1	1,20)	
PROPOSAL CURVE NO.		RPM			Driver Type		INDUCTION MOTOR	
As Tested Curve No.					GEAR		NO	
IMPELLER DIA.: RATED	MAX.	MIN.		nm	VARIABLE SPEED REQUIRED		NO	
RATED POWER Kw	v EFF	ICIENCY		%)	SOURCE OF VARIABLE SPEED			
RATED CURVE BEP FLOW (at rated i	mpeller dia)		n	1 ³ /hr	OTHER			
MIN FLOW:	kJ/Nm³		n	1 ³ /hr	MANUFACTURER			
PREFERRED OPERATING REGION ((6.1.11)	to	n	n³/hr	NAMEPLATE POWER	@Site Condition	KW	
ALLOWABLE OPERATING REGION		to	n	n³/hr	Nominal RPM			
MAX HEAD @ RATED IMPELLER				m	RATED LOAD RPM			
MAX POWER @ RATED IMPELLER				κW	FRAME OR MODEL			
NPSH3 AT RATED FLOW:				m	ORIENTATION		HORIZONTAL	
CL PUMP TO U/S BASEPLATE				m	LUBE	_		
NPSH MARGIN AT RATED FLOW:				m	BEARING TYPE:			
SPECIFIC SPEED (6.1.9)					RADIAL	_		
SUCTION SPECIFIC SPEED LIMIT					THRUST			
SUCTION SPECIFIC SPEED					STARTING METHOD	DOI /One	en delivery valve	
MAX. ALLOW. SOUND PRESS. LEVI	EL REOD (6.1.14	0	(d	BA) @ 1 m	SEE DRIVER DATA SHEET	D.O.L/Ope	Note 1	
EST MAX SOUND PRESS. LEVEL	LLLQD (0.1.14	,		BA) @ TIII	Max Voltage Variation		±5%	
MAX. SOUND POWER LEVEL REQ'I	2 (6 1 14)			,	Max Frequency Variation		±2%	
EST MAY SOUND BOWED I EVEL	J (U.1.14)				Max Voltage and Fraguency Variation together		±470	





احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیمان:

MECHANICAL DATA SHEETS FOR FIRE WATER JOCKEY PUMPS

نسخه سريال نوع مدرک رشته تسهيلات صادر کننده بسته کاری پروژه BK GCS PEDCO 120 ME DT 0028 D02 شماره صفحه: 6 از 9

			'	DΝ	GCS	PEDCO	120	IVIE DI	0026	D02				
					C	ENTRIFUGAL	PUMP DATA SHEE	CT (SI UNIT) - P-2302 A/	/B (Sheet 3 of 6)					
							CONSTI	RUCTION						
API PUMP TYPE:	0	OH2	П	Based on API 610	0 definitions]			CASING MOUNTING:				CENTERLINE	Ē	-
-	-				-			CASING TYPE:		(6.3.10)		E VOLUTE		
NOZZLE CONNECTIO	ONS:	(6.	i.5.5)	NOTES 7, 12				OH3 BACKPULLOUT L	LIFTING DEVICE REQD	. (9.1.2.6)	-			
		Size	Facing	Rating	ţ	Position	7		ASE PRESSURE RATIF	NG:				
SUCTION		-	RF	150		END	1		MAWP:	(6.3.5)	By vendor	barg @		°C
DISCHARGE			RF	150		TOP	1	D02	HYDROTEST:		1.5*MAWP	barg @		°C
PRESSURE CASING A	AUX. CON	NECTION	NS: (6.4.3.2	2)			-					_		
	No.	Size	Type	Facing	Rating	Posn.	7	HYDROTEST (OH PUMP AS ASSEMB	BLY			YES	
BAL./LEAK OFF		<u> </u>	<u> </u>				1	SUCT'N PRESS.	REGIONS DESIGNED	FOR MAWP			YES	
DRAIN						T	1	ROTATION:		(VIEWED FROM	COUPLING END)			
VENT		<u> </u>							IMPELLERS INDIVIDU			_		
PRESSURE GAGE		<u> </u>	<u> </u>						BOLT OH 3/4/5 PUMP					. !
TEMP GAGE		<u> </u>	<u> </u>				1		PROVIDE SOLEPLATE	E FOR OH 3/4/5 PUM	iPS			
WARM-UP LINE		<u> </u>					1	ROTOR:						
							-	SHAFT FLEXIB	BILITY INDEX (SFI) (9.1	.1.3)				
Drain Valve Supplie	d By					PPLIER		-	eed Wet (Multi stage pump	•				
DRAINS MANIFOL						YES	_		BALANCE TO ISO 1940				NO	_
VENT Valve Suppli						PPLIER	_		LIMITED MOVEMENT IN					
VENTS MANIFOLI						YES	_	COUPLING:(7.2		(7.2.13	3.f) NOTI	E 19		
THREAD. CONS FO						NO		MANUFACTUR	RER					.
SPECIAL FITTING				3.3)		NO	_	MODEL						.
CYLINDRICAL TH			(6.4.3.8)			NO	_	RATING (POWE				_		.
GUSSET SUPPORT						YES	If Needed	SPACER LENGT						mm
MACHINED AND	STUDDED	CONNEC	TIONS (6.4	.4.3.12)		NO	_	SERVICE FACT	ΓOR				Min 1.5	.
VS 6 DRAIN						N/A	_	RIGID					NO	-
DRAIN TO SKID E	DGE					YES		_	TH HYDRAULIC FIT (7.					.
				ATERIAL (6.1					LANCED TO ISO 1940-1	. ,			YES	.
APPENDIX H CLASS				I-2	NOTE 3			COUPLING WIT	TH PROPRIETARY CLA	MPING DEVICE (7.	2.11)			
MIN DESIGN METAL			- (C 10 1 1			5	°C	COLIDI INC IN	~~~ ON TANCE WITH /2	1		: DV <10		
REDUCED-HARDNESS			D (6.12.1.1.	2.1)					COMPLIANCE WITH (7				compliant	
Applicable Hardness Star BARREL :	adard (o.1∠.	.1.12.5)						Window on Coup	JARD STANDARD PER ((7.2.13.a)		10	SO 14120	.
CASE:								window on Coup	oling Guard					
DIFFUSERS								<u> </u>		BASEPLAT	DE:			
IMPELLER :								API BASEPLATI	PE NITIMBED .	BASEFLAI	i E			
IMPELLER : IMPELLER WEAR RIN	IC.								ONSTRUCTION (7.3.14)					
CASE WEAR RING:	.G :								RAINAGE (7.3.1)		- E	ntire Baseplate	o Droin Pan	
SHAFT:								MOUNTING:	KAINAGE (1.3.1)			Attre Dasepian	2 Drain 1 an	
Bowl (if VS-type)									CONSTRUCTION: (7.3.1:	2)				
Inspection Class (Note 2)	4								VELING SCREWS :	3)		REQUI	RED	
mspection Class (11011 2)		BEARIN	NGS AND	D LUBRICATIO	ON (6.10.1.1)	(VTC)			AL DRIVER POSITIONIN	NG SCREWS :		REQUI		
BEARING (TYPE / NUM			11.4)	LUBRICHT	Ol1 (0.10.1.1)	(VIC)	D01	SUPPLIED WITH			ND VENT HOLES			ES
RADIAL	ROLLER		/	ANT	TI FRICTION	ı		50			ONNECTION		YE	
THRUST	BALL	<u>-</u>	,		TI FRICTION			MOUNTING PA	ADS SIZED FOR BASEPI					ES
REVIEW AND APPROV		T BEARIN	NG SIZE : (Tractic.,				ADS TO BE MACHINED		3.3)		YE	
KE-IE-II-I	VL	1 22		,7.2,					CER PLATE UNDER ALI		т		YE	
LUBRICATION :	(6.10.2	2.2) (6.11.3)	(9.2.6)		RING O	OIL	=	OTHER	JEK LEILE C	L LQUI II				
PRESSURE LUBE					(9.2.6.5)		_							
	0			SHEETS ATTAC	_ ` `		=							
Pressurized Lube Oi	il System m							REMARKS:						
Location of Pressuriz				haseplate :			=	***************************************						
***************************************				Suscial Control of the Control of th										
INTERCONNECTI	NG PIPING	G PROVID	ED BY		Sr	upplier								
OIL VISC. ISO GR.				VG		фрист	=							
CONSTANT LEVE		:					_							





احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیمان:

MECHANICAL DATA SHEETS FOR FIRE WATER JOCKEY PUMPS

053-073-9184

پروژه	بسته کاری	صادر كننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه
BK	GCS	PEDCO	120	ME	DT	0028	D02

شماره صفحه: 7 از 9

CENTRIFUGAL	PUMP DATA SHEET	(SI UNIT) - P-2302 A/B (Sheet 4 of 6)	
	TOMI DATA GREET		
INSTRUMENTATION		SEAL SUPPORT SYSTI	
SEE ATTACHED API-670 DATA SHEET		SEAL SUPPORT SYSTEM MOUNTED ON PUMP BASEPLA	
ACCELEROMETER (7.4.2.1)			(7.5.1.4) YES
Number of Accelerometers		IDENTIFY LOCATION ON BASEPLATE	
Mounting Location of Accelerometers			
		INTERCONNECTING PIPING BY	Supplier
PROVISION FOR MTG ONLY (6.10.2.10)	-	MEGHANIGAL CEAL	((0 1) (NOWE 11)
Number of Accelerometers	. -	MECHANICAL SEAL (SEE ATTACHED ISO 21049/API 682 DATA SHEET	
Mounting Location of Accelerometers			N/A NOTE 5
FLAT SURFACE REQUIRED (6.10.2.11)		ADDITIONAL CENTRAL FLUSH PORT HEATING JACKET REO'D.	(6.8.9) (6.8.11) N/A
Number of Accelerometers (0.10.2.11)		FLUSH PLAN	(6.8.11) $\frac{N/A}{11+61}$ (VTC)
Mounting Location of Accelerometers		PEUSITI EAN	11+01 (V1C)
Mounting Location of Accelerometers			
VIBRATION PROBES (7.4.2.2)	-	HEATING AND COO	N INC (6 1 17)
PROVISIONS FOR VIB. PROBES	-	COOLING REQ'D	NO NO
NUMBER PER RADIAL BEARING		COOLING WATER PIPING PLAN	
NUMBER PER AXIAL BEARING		COOLING WATER PIPING	
NORIBERTER ANIAE BEARING		COOLING WATERTHING	FITTINGS
MONITORS AND CABLES SUPPLIED BY (7.4.2.4)		COOLING WATER PIPING MATERIALS	
MONTORS AND CABLES SOIT ELLS BT (7.4.2.4)		COOLING WATER REQUIREMENTS:	
TEMPERATURE (7.4.2.3)		COOLING WITH REQUIREMENTS.	
PROVISIONS FOR TEMP PROBES			
RADIAL BEARING TEMP.		TOTAL COOLING WATER	
NUMBER PER RADIAL BEARING		HEATING MEDIUM	
THRUST BEARING TEMP.	:	OTHER	
NUMBER PER THRUST BEARING ACTIVE SIDE		HEATING PIPING	
NUMBER PER THRUST BEARING INACTIVE SIDE			
TEMP. GAUGES (WITH THERMOWELLS) (9.1.3.6)	· -	PIPING & APPUR	TENANCES
PRESSURE GAUGE TYPE	-	MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.	
Remarks	•	VENT	YES
		DRAIN	YES
		VALVES	YES (NOTE 8)
-	•	COOLING WATER	NO
	•	TAG ALL ORIFICES (7.5.2.4)	YES
		SOCKET WELD CONN ON SEAL GLAND (7.5.2.8)	<u> </u>
	•		
	:		
-	•		
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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیمان:

MECHANICAL DATA SHEETS FOR FIRE WATER JOCKEY PUMPS

053-073-9184

		MECHANICA	L DATA OFFICE	-10101	- WAILN SO	JALI I OWN O	
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه
BK	GCS	PEDCO	120	ME	DT	0028	D02

شماره صفحه: 8 از 9

				CI	ENTRIFUGAL	PUMP DATA SHEET	(SI UNIT) - P-2302 A/B (Sheet	t 5 of 6)					
		SU	RFACE PREPA	RATION AND PAINT					TEST				
MANUFACTU	RER'S STANI	DARD					SHOP INSPECTION (8.1.1)	1				Yes	
OTHER (SEE	BELOW)					•	PERFORMANCE CURVE						
SPECIFICATI	ON NO.	BK-GNRAL-I	PEDCO-000-PI-SP	-0006, "Specification			& DATA APPROVAL PRIC	OR TO SHIPMENT.				YES	
		for Painting"					TEST WITH SUBSTITUTE	SEAL (8.3.3.2.b)					
PUMP:							MATERIAL CERTIFICATI	ON REQUIRED		(CASING	YES	
PUMP SURFA	CE PREPARA	TION		SA 2 1/2			SHAFT	YES		(6.12.1.8) I	IMPELLER	YES	
PRIMER				AS PER PROJECT PAI	NTING SPEC.		OTHER	YES	Casing and imp	eller Wear ring			
FINISH COAT				AS PER PROJECT PAI	NTING SPEC.		CASTING REPAIR WELD	PROCEDURE APPR	REQD			YES	
BASEPLATE							INSPECTION REQUIRED	FOR CONNECTION	WELDS (6.12.3.4.	*			
BASEPLATE	SURFACE PRE	EPARATION		SA 2 1/2			LIQUID PENETRANT		YES	MAG PAR			
PRIMER:				AS PER PROJECT PAI			ULTRASONIC		-	RADIOGI	RAPHY	YES	
FINISH COAT				AS PER PROJECT PAI	NTING SPEC.		INSPECTION REQUIRED	FOR CASTINGS					
	LIFTING DEV	ICES					LIQUID PENETRANT		YES	MAG PAR		YES	
SHIPMENT:				EXP	ORT		ULTRASONIC (NOTE 18)		YES	RADIOGR.	APHY		
	ING REQUIRI				YES	=	HARDNESS TEST REQUIR						
		E THAN 6 MON			YES		ADDNL SUBSURFACE EX	XAMINATION (6.12.)	1.5) (8.2.1.3)				
		Y PACKAGED								FOR			
		ATION (9.2.8.2)				:				METHOD			
		NTAINER FOR	VERT STORAGE ((9.2.8.3)									
N ₂ PURGE (9.2						-	PMI TESTING REQUIRED						
SPARE PART	'S							MPONENTS TO BE	TESTED				
START-UP					YES		RESIDUAL UNBALANCE						
NORMAL MA	INTENANCE				YES		NOTIFICATION OF SUCC					YES	
ITEM No	PUMP	DRIVER	GEAR	BASE	ı	TOTAL	PERFORMANCE TEST (8.3 BASEPLATE TEST (7.3.21)					YES	
HEMINO	FUMF	DRIVER	GEAR	DASE		TOTAL	HYDROSTATIC	,				WIT	
							HYDROSTATIC TEST OF	BOWLS & COLUMN	N (9.3.13.2)		-		
							PERFORMANCE TEST				-	WIT	
		OTI	HER PURCHAS	ER REQUIREMENT	S		TEST IN COMPLIANCE W	TTH (8.3.3.2)			_	NFPA 20	
COORDIN	NATION MEET	ΓING REQUIRE	ED (10.1.3)		YES		TEST DATA POINTS TO (8	8.3.3.3)			_	NFPA 20	
MAXIMU	M DISCHARO	E PRESSURE T	TO INCLUDE				TEST TOLERANCES TO (8	8.3.3.4)				TABLE 16	
							NPSH (8.3.4.3.1) (8.3.4.3.4)	(NOTE 6)			_	WIT	
		OPERATION	TO TRIP SPEED				NPSH-1ST STG ONLY (8.3	.4.3.2)					
	MAX D	IA. IMPELLERS	S AND/OR NO OF	STAGES	YES		NPSH TESTING TO HI 1.6	OR ISO 9906 (8.3.4.3	3.3)		_		
CONNEC	TION DESIGN	APPROVAL (9	0.2.1.4)		YES		TEST NPSHA LIMITED TO	O 110% SITE NPSHA	(8.3.3.6)		_		
TORSION	IAL ANALYSI	S / REPORT (6.9	9.2.10)		NO		RETEST ON SEAL LEAKA	GE (8.3.3.2.d)				OBSERVE	
PROGRE	SS REPORTS				YES		RETEST REQUIRED AFTE	ER FINAL HEAD AD	J (8.3.3.7.b)		_		
OUTLINE	OF PROC FO	R OPTIONAL T	ESTS (10.2.5)				COMPLETE UNIT TEST (8	3.3.4.4.1)				WIT	
ADDITIO	NAL DATA RI	EQUIRING 20 Y	EARS RETENTIO	N (8.2.1.1)			SOUND LEVEL TEST (8.3.				_	WIT	
					YES		CLEANLINESS PRIOR TO	FINAL ASSEMBLY	(8.2.2.6)		_	OBSERVE	
LATERAL	L ANALYSIS F	REQUIRED (9.1.	.3.4) (9.2.4.1.3)		NO	=	LOCATION OF CLEANLIN	NESS INSPECTION					
MODAL A	ANALYSIS RE	QUIRED (9.3.9.	2)			=	NOZZLE LOAD TEST				_		
DYNAMI	C BALANCE F	ROTOR (6.9.4.4))		YES	=	CHECK FOR CO-PLANAR	MOUNTING PAD S	SURFACES		_		
INSTALL	ATION LIST I	N PROPOSAL (10.2.3.1)		YES		MECHANICAL RUN TEST	UNTIL OIL TEMP	STABLE		_		
			ONSE ANALYSIS ((6.9.2.3)		NO	4 HR. MECH RUN AFTER		E (8.3.4.2.1)		_	WIT	
TRANSIE	NT TORSION.	AL RESPONSE			NO		4 HR. MECH RUN TEST (8	3.3.4.2.2)					
BEARING	G LIFE CALCU	LATIONS REQ	UIRED (6.10.1.6)				BRG HSG RESONANCE T	EST (8.3.4.7)					
IGNITION	N HAZARD AS	SMT TO EN 13	463-1 (7.2.13.e)		-		STRUCTURAL RESONAN	CE TEST (9.3.9.2)			-		
CASING	RETIREMENT	THICKNESS D	PRAWING (10.3.2.3))			REMOVE / INSPECT HYD	RODYNAMIC BEAF	RINGS AFTER TE	ST	-		
FLANGE	S RQD IN PLA	CE OF SKT WE	ELD UNIONS (7.5.2.	.8)			(9.2.7.5)						
INCLUDE	E PLOTTED VI	BRATION SPE	CTRA (6.9.3.3)				AUXILIARY EQUIPMENT TEST (8.3.4.6)						
CONNEC	TION BOLTIN	IG (7.5.1.7)					EQUIPMENT TO BE INCLUDED IN AUXILIARY TESTS						
CADMIU	M PLATED BO	DLTS PROHIBIT	ΓED			•	LOCATION OF AUXILIAR	Y EQUIPMENT TES	T		-		
VENDOR	TO KEEP REI	PAIR AND HT F	RCDS (8.2.1.1.c)				IMPACT TEST PER EN 13445						
VENDOR	SUBMIT TES	T PROCEDURE	ES (8.3.1.1)		YES	•			PER AS	SME SECTION V	III		
SUBMIT	INSPECTION (CHECK LIST (8	3.1.5) NOTE 2		YES	•	REMOVE CASING AFTER	TEST			-		





احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

. پیمان:

 MECHANICAL DATA SHEETS FOR FIRE WATER JOCKEY PUMPS

 نسخه سریال نوع مدر ک رشته تسهیلات صادر کننده بسته کاری پروژه

 BK
 GCS
 PEDCO
 120
 ME
 DT
 0028
 D02

شماره صفحه: 9 از 9

CENTRIFUGAL PUMP DATA SHEET (SI UNIT) - P-2302 A/B (Sheet 6 of 6)				
PRESSURE VESSEL DESIGN CODE REFERENCES				
THESE REFERENCES MUST BE LISTED BY THE MANUFACTURER				
CASTING FACTORS USED IN DESIGN (TABLE 3)				
	SOURCE OF MATERIAL PROPERTIES			
WELDING AND REPAIRS (NOTE 15)				
THESE REFERENCES MUST BE LISTED BY THE PURCHASER. (DEFAULT TO TABLE 11 IF NO PURCHASER PREFERENCE IS STATED)				
ALTERNATE WELDING CODES AND STANDA				
WELDING REQUIREMENT (APPLICABLE COD WELDER/OPERATOR QUALIFICATION	E OR STANDARD)	-	DEFAULT PER TABLE 11 DEFAULT PER TABLE 11	
WELDING PROCEDURE QUALIFICATION		-	DEFAULT PER TABLE 11	
NON-PRESSURE RETAINING STRUCTURAL WELDING SUCH AS BASEPLATES OR SUPPORTS			DEFAULT PER TABLE 11	
MAGNETIC PARTICLE OR LIQUID PENETRANT EXAMINATION OF PLATE EDGES			DEFAULT PER TABLE 11	
POSTWELD HEAT TREATMENT			DEFAULT PER TABLE 11	
POSTWELD HEAT TREATMENT OF CASING FABRICATION WELDS			DEFAULT PER TABLE 11	
MATERIAL INSPECTION				
THESE REFERENCES MUST BE LISTED BY TH		DEFA	AULT TO TABLE 14 YES	
	O ACCEPTANCE CRITERIA (SEE TABLE 15) (8.2.2.5)	FOR EARBYGUEWOVE	FOR CASTINGS	
TYPE OF INSPECTION RADIOGRAPHY	METHOD	FOR FABRICATIONS	FOR CASTINGS	
ULTRASONIC INSPECTION				
MAGNETIC PARTICLE INSPECTION				
LIQUID PENETRANT INSPECTION	-			
VISUAL INSPECTION (all surfaces)			1	
REMARKS:				
-			<u> </u>	
-				