

053-073-9184

نگهداشت و افزایش تولید میدان نفتی بینک سطحالارض



شماره صفحه: 1 از 9

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شم	MECHANICAL DATA SHEETS FOR FIRE WATER JOCKEY PUMPS										
	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدر ک	سريال	نسخه			
	BK	GCS	PEDCO	120	ME	DT	0028	D05			

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	
D03	OCT.2022	AFC	H. Adineh	M. Fakharian	M. Mehrshad	
D04	NOV.2022	AFC	H. Adineh	M. Fakharian	M. Mehrshad	
D05	FEB. 2023	AFC	H. Adineh	M. Fakharian	M. Mehrshad	

Class: 1 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

AB-R: As-Built for CLIENT Review

AB-A: As-Built -Approved

IFI: Issued For Information



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره صفحه: 2 از 9

	پیمان:	اره
053-073-9184		

	MECHANICAL DATA SHEETS FOR FIRE WATER JUCKET FUMPS											
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه					
BK	GCS	PEDCO	120	ME	DT	0028	D05					

REVISION RECORD SHEET

page	D00	D01	D02	D03	D04	D05
1	X	X	X	X	X	X
2	X	X	X	X	X	X
3	X		X	X	X	X
	X		^	^	_ ^	_ ^
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5	Х	Х	Х	Х		
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053-073-9184

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیمان

| MECHANICAL DATA SHEETS FOR FIRE WATER JOCKEY PUMPS
| نسخه سربال نوع مدر ک رشته تبهیلات صادر کننده بسته کاری پروژه
| BK GCS PEDCO 120 ME DT 0028 D05

شماره صفحه: 3 از 9

GENERAL NOTES

- 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.
- 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. As per NFPA 20 dedicated sensing line and control panel for jockey pumps and separated from main pumps shall be considered by vendor.



- 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., electrical motor shall be rated according to project site condition. 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.
- 21 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.
- 23 For technical requirements of electrical Iv motors refer to "Data sheets "for Iv induction motors: DOC NO:BK-GCS-PEDCO-120-EL-DT-0008". Power Factor, efficiency, frequent, voltage, frequent variation and voltage variation of motor shall be specified by vendor in data sheet.





053-073-9184

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

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شماره صفحه: 4 از 9

		CENTRIFUGAL PU	JMP DATA SHEET (SI UNIT) - P-2302 A/B (Sheet 1 of 6)
	~~~		
	CLIE		ıl Iranian South Oil Company (NISOC)
	PROJECT TIT		Gas Compressor Station
	JOB NUMB	ER:	
	EQUIPMENT NUMB	ER: P-2302	A/B
	EQUIPMENT SERVI	CE: Fire Wa	nter Jockey Pumps
	SERIAL NUMB	ER:	
	REQ. / SPEC N	O.: <u>BK-GC</u>	S-PEDCO-120-ME-SP-0005
	PURCH ORDER	NO	
Cells color	ured thus contain drop-	down options	
	contain calcu	lated values based of	on input data; do not change.
	11	C 1	
	identify a cro	ss referenced parag	raph in the document note, and may also contain a drop down list
			DATA SHEETS





#### احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

 MECHANICAL DATA SHEETS FOR FIRE WATER JOCKEY PUMPS

 سماره پیمان:
 شماره پیمان:

 سخه سریال نوع مدرک رشته تسهیلات صادر کننده بیته کاری پروژه
 سریال نوع مدرک رشته تسهیلات صادر کننده بیته کاری پروژه

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**شماره صفحه:** 5 از 9

		<u> </u>	CENTRIF	UGAL PUM	IP DATA SHEE	T (SI UNIT) - P-2302 A/B (Sheet 2 of 6)	•			
										_
APPLICABLE TO: PROPOS	SAL					CABLE NTL/INTNTL STANDARD:		NFPA20 (2019) &	E IPS-M-PM-12	.5 
FOR NISOC					UNIT	<del></del>				_
SITE BINAK Gas Compressor					SERVI					_
NO. REQ 2 (1+1)	PUMP SIZ	ZE			TYPE	OH2 (V.T.A)	No. STAGES	1		<u> </u>
MANUFACTURER					MODE		SERIAL NO.	V.T.A.		
	1				LIQUID CHAI	RACTERISTICS				
	Units	Maximum	Minimum	Note		SERVICE:		INT	ERMITTENT	_
LIQUID TYPE OR NAME :		Water		Max	& min	• IF INTERMITTENT NO. OF STARTS :				
VAPOR PRESSURE :	bara	0.0087	0.1219	value	s refer	PUMPS OPERATE IN:				
DENSITY:	kg/m³	99	97	only t	to the	CORROSION DUE TO : (6.12.1.9)				
SPECIFIC HEAT:	kj/kgC	4.1	186	prope	erty	EROSION DUE TO: (6.12.1.9)		·		
VISCOSITY:	cР	1	1	listed		H2S CONCENTRATION (ppm): (6.12.1.12)				N.A.
	OPERAT	TING CONDITIONS (6.	1.2)			CHLORIDE CONCENTRATION (ppm):				
	Units	Maximum	Rated	Normal	Min	PARTICULATE SIZE (DIA IN MICRONS)				
NPSH _A Datum:			C.L. Impell	er	•	PARTICULATE CONCENTRATION (PPM)				
PUMPING TEMPERATURE :	°C	50			5					
FLOW:	m³/hr		15.0							
DISCHARGE PRESSURE :(6.3.2)	barg		10.4							
SUCTION PRESSURE :	barg	0.83	0.81		0.08					
DIFFERENTIAL PRESSURE :	bar		10.3							
DIFFERENTIAL HEAD :	m		105.0							
NPSH _A :	m		8.8							
HYDRAULIC POWER:	KW		4.50							
			1100		SITE AND II'	I FILITY DATA				
LOCATION:					0112.1112.	COOLING WATER:				
	JNHEATED	UN	DER ROOF			COOLING WATER.	RETUR	N DESIGN	1	
MOUNTED AT:	MILATED	TROPICALISA				TEMP	KETUKI	DESIGN		
ELECTRIC AREA CLASSIFICATION	N. (6		SAI	DIE.		PRESS.				
GROUP		TEMP CLASS	- SA.			SOURCE				
<b>_</b>		TEWF CLASS		<del></del>			ENTER ATTION	_		
SITE DATA:					_	COOLING WATER CHLORIDE CONC				
ELEVATION (MSL) : 12.5	-	BAROMETER		990.77	mBai	INSTRUMENT AIR:	kg	MIN	kg	
RANGE OF DESIGN TEMPS:MIN / MA	ΛX			°C		STEAM				
RELATIVE HUMIDITY: MIN / MAX			100	% (@ 2	5.6 °C)		DRIVERS HI	EATING		
UNUSUAL CONDITIONS:		NA				TEMP				
UTILITY CONDITIONS:	1	ı	i _l			PRESS.				
ELECTRICITY: DRIVERS	HEATING	CONTROL	SHUTDOW	N						
VOLTAGE 400										
PHASE 3										
HERTZ 50										
	I	PERFORMANCE					DRIVER (7.1.5) (NOTE			
PROPOSAL CURVE NO.		RPM				Driver Type		INDUCTION	MOTOR	
As Tested Curve No.						GEAR			NO	
IMPELLER DIA.: RATED	MAX.	MIN.		mm		VARIABLE SPEED REQUIRED			NO	
RATED POWER Kw	EFFI	ICIENCY		(%)		SOURCE OF VARIABLE SPEED				
RATED CURVE BEP FLOW (at rated im	npeller dia)			m³/hr		OTHER				
MIN FLOW:	kJ/Nm³			m³/hr		MANUFACTURER				
PREFERRED OPERATING REGION (6.	.1.11)	to		m³/hr		NAMEPLATE POWER	@Site Condition			KW
ALLOWABLE OPERATING REGION		to		m³/hr		Nominal RPM				
MAX HEAD @ RATED IMPELLER				m		RATED LOAD RPM				
MAX POWER @ RATED IMPELLER				kW		FRAME OR MODEL				
NPSH3 AT RATED FLOW:				m		ORIENTATION		HORIZO	NTAL	
CL PUMP TO U/S BASEPLATE				m		LUBE		-		
NPSH MARGIN AT RATED FLOW:				m		BEARING TYPE:			<del></del>	
SPECIFIC SPEED (6.1.9)						RADIAL			1	
SUCTION SPECIFIC SPEED LIMIT						THRUST			1	
SUCTION SPECIFIC SPEED						STARTING METHOD	D.O.L	/Open delivery val	ve	
MAX. ALLOW. SOUND PRESS. LEVE	L REQD (6.1.14	)	85	(dBA)	@ 1 m	SEE DRIVER DATA SHEET		* * * * * * * * * * * * * * * * * * * *	Note 1	
EST MAX SOUND PRESS. LEVEL	2 ( /			(dBA)		Max Voltage Variation			±5%	
MAX. SOUND POWER LEVEL REQ'D	(6.1.14)			. ,		Max Frequency Variation			±2%	
EST MAX SOUND POWER LEVEL						Max Voltage and Frequency Variation together			±5%	



IMPELLER:

SHAFT:

IMPELLER WEAR RING:

CASE WEAR RING:

#### نگهداشت و افزایش تولید میدان نفتی بینک سطحالارض



#### احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

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		ان:	شماره پیما		ı	MECHANICAL	DATA SHEE	TS FOR	R FIRE WATER JOC	KEY PUMPS					
053	3-073-918	R4		پروژه	بسته کاری	صادر کننده	تسهيلات	ىتە	نوع مدرک رش	سريال	نسخه	9	سفحه: 6 از 9	شماره د	
000	7 070 710	, ,		BK	GCS	PEDCO	120	M	IE DT	0028	D05				
					CE	NTRIFUGAL I	PUMP DATA S	SHEET	(SI UNIT) - P-2302 A	/B (Sheet 3 of 6)					
								N. CORPOR	VOTEN						
						<u> </u>	CO		UCTION						
API PUMP TYPE:		OH2	Į.	Based on API 610	/				CASING MOUNTING:				CENTERLIN	Æ E	
					/ D0	)5 \			CASING TYPE:		(6.3.10)	SING	SLE VOLUTE		
NOZZLE CONNECTI	ONS:			NOTES 7, 12			Ì		OH3 BACKPULLOUT LI	•					
avamov.		Size	Facing	Rating		Position				ASE PRESSURE RAT					
SUCTION			FF	125		END				MAWP:	(6.3.5)	By vendor	barg @		°C
DISCHARGE			FF	125		TOP				HYDROTEST:		1.5*MAWP	barg @		°C
PRESSURE CASING	1	_	1			-	Ì		·····		n			******	
	No.	Size	Type	Facing	Rating	Posn.				OH PUMP AS ASSEM				YES	
BAL/LEAK OFF									ROTATION:	REGIONS DESIGNED		GOLDEN DUG FAID		YES	
DRAIN										DADELLEDG DUDBUR	(VIEWED FROM	COUPLING END)			
VENT PRESSURE GAGE										IMPELLERS INDIVID		ON	-		
TEMP GAGE											P TO PAD / FOUNDATI TE FOR OH 3/4/5 PUMP				
WARM-UP LINE									ROTOR:	PROVIDE SOLEPLAT	E FOR OH 3/4/3 PUMP	3			
WARWI-OF LINE	<u> </u>									LITY INDEX (SFI) (9.1	1.1.2)				
Drain Valve Supplie	od By				CHD	PLIER				ed Wet (Multi stage pun					
						ES	:			SALANCE TO ISO 1940				NO	
						PLIER				MITED MOVEMENT I					
						ES			COUPLING:(7.2		(7.2.13	3.f) NO	OTE 19		
THREAD. CONS FO	OR PIPELINE	SERVICE &	& < 50°C (6.	4.3.2)		NO			MANUFACTUR						
SPECIAL FITTING	S FOR TRA	ANSITIONI	NG (6.4.3.3	)		NO			MODEL						
Drain Valve Supplied By DRAINS MANIFOLDED VENT Valve Supplied By VENTS MANIFOLDED THREAD. CONS FOR PIPELINE SERVICE & < 50°C (6.4.3.2) SPECIAL FITTINGS FOR TRANSITIONING (6.4.3.3) CYLINDRICAL THREADS REQUIRED (6.4.3.8)						NO	:		RATING (POWE	ER/100 RPM)			-		
GUSSET SUPPOR	T REQUIRE	ED				YES	If Neede	ed	SPACER LENGT	ТН			-		mm
MACHINED AND	STUDDED	CONNECT	ΓΙΟΝS (6.4.	3.12)		NO			SERVICE FACT	OR				Min 1.5	
VS 6 DRAIN					N	i/A	:		RIGID					NO	
DRAIN TO SKID E	EDGE					YES	•		COUPLING WIT	H HYDRAULIC FIT (7	.2.10)				
			MA	ATERIAL (6.1	2.1.1)				COUPLING BAL	ANCED TO ISO 1940-	1 G6.3 (7.2.3)			YES	
APPENDIX H CLASS				I-2	NOTE 3				COUPLING WIT	H PROPRIETARY CL	AMPING DEVICE (7.2.1	11)			
MIN DESIGN METAL	TEMP (6.12	.4.1)	-			5	°C								
REDUCED-HARDNES	S MATERIA	ALS REQ'D	(6.12.1.12.	1)		<del></del>			COUPLING IN C	COMPLIANCE WITH (	7.2.4)		API 610	0 compliant	
Applicable Hardness Sta	ndard (6.12.	1.12.3)				<del></del>			COUPLING GUA	ARD STANDARD PER	(7.2.13.a)		I	ISO 14120	
BARREL:									Window on Coup	ling Guard					
CASE:															
DIFFUSERS											BASEPLAT	ГЕ			

#### Bowl (if VS-type) NON-GROUT CONSTRUCTION: (7.3.13) VERTICAL LEVELING SCREWS: Inspection Class (Note 2) BEARINGS AND LUBRICATION (6.10.1.1) (VTC) ANTI FRICTION THRUST BALL ANTI FRICTION REVIEW AND APPROVE THRUST BEARING SIZE : (9.2.5.2.4) MOUNTING PADS TO BE MACHINED (7.3.6) RING OIL OTHER LUBRICATION: (6.10.2.2) (6.11.3) (9.2.6) (9.2.6.5) PRESSURE LUBE SYSTEM TO ISO 10438-ISO 10438 DATA SHEETS ATTACHED Pressurized Lube Oil System mtd on pump baseplate REMARKS: Location of Pressurized Lube Oil System mounted on baseplate : INTERCONNECTING PIPING PROVIDED BY Supplier OIL VISC. ISO GRADE VG CONSTANT LEVEL OILER:

|--|

VERTICAL LEVELING SCREWS:

REQUIRED

LONGITUDINAL DRIVER POSITIONING SCREWS:

REQUIRED

SUPPLIED WITH:

GROUT AND VENT HOLES

API BASEPLATE NUMBER :

BASEPLATE DRAINAGE (7.3.1)

MOUNTING:

BASEPLATE CONSTRUCTION (7.3.14)

SUPPLIED WITH:

• GROUT AND VENT HOLES

• DRAIN CONNECTION

TES

MOUNTING PADS SIZED FOR BASEPLATE LEVELING (7.3.5)

YES

MOUNTING PADS TO BE MACHINED (7.3.6)

PROVIDE SPACER PLATE UNDER ALL EQUIPMENT FEET

YES

YES

REMARKS:





# احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

053-073-9184

 MECHANICAL DATA SHEETS FOR FIRE WATER JOCKEY PUMPS

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

 BK
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شماره صفحه: 7 از 9

BR 000 1 2000 120	WE 51 0020 500	
CENTRIFUGAL PUMP DATA S	SHEET (SI UNIT) - P-2302 A/B (Sheet 4 of 6)	
INSTRUMENTATION	SEAL SUPPORT SYSTEM MOU	NTING
SEE ATTACHED API-670 DATA SHEET	SEAL SUPPORT SYSTEM MOUNTED ON PUMP BASEPLATE	1210
	SEAL SUFFORT STSTEM MOUNTED ON FUMF BASEFLATE	(7.5.1.6) YMC
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)		
Number of Accelerometers	MECHANICAL SEAL (6.8.1) (NO	TE 13)
Mounting Location of Accelerometers	SEE ATTACHED ISO 21049/API 682 DATA SHEET	N/A NOTE 5
	ADDITIONAL CENTRAL FLUSH PORT	(6.8.9)
FLAT SURFACE REQUIRED (6.10.2.11)	HEATING JACKET REQ'D.	(6.8.11) N/A
Number of Accelerometers	FLUSH PLAN	11+61 (VTC)
Mounting Location of Accelerometers		
Thomas and the control of the contro		
NURD ATION PRODES (7.4.2.2)	HEATING AND GOOD ING (	117
VIBRATION PROBES (7.4.2.2)	HEATING AND COOLING (6.2	·
PROVISIONS FOR VIB. PROBES	COOLING REQ'D	NO
NUMBER PER RADIAL BEARING	COOLING WATER PIPING PLAN	
NUMBER PER AXIAL BEARING	COOLING WATER PIPING	
	FITTINGS	
MONITORS AND CABLES SUPPLIED BY (7.4.2.4)	COOLING WATER PIPING MATERIALS	
	COOLING WATER REQUIREMENTS:	
TEMPERATURE (7.4.2.3)		
PROVISIONS FOR TEMP PROBES		
RADIAL BEARING TEMP.	TOTAL COOLING WATER	<del></del>
<del></del>		
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 & APPURTENANCE	ES
PRESSURE GAUGE TYPE	MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6)	
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)	TES
	SOCKET WELD CONN ON SEAL GLAND (7.3.2.0)	
- <del></del>		
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#### احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

 MECHANICAL DATA SHEETS FOR FIRE WATER JOCKEY PUMPS

 شماره پيمان:

 سیخه سریال انوع مدر ک رشته تسهیلات صادر کننده بسته کاری پروژه
 پروژه

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 D05

شماره صفحه: 8 از 9

				CI	ENTRIFUGAL	PUMP DATA SHEET	(SI UNIT) - P-2302 A/B (S	Sheet 5 of 6)			
		SUI	RFACE PREPAI	RATION AND PAINT					TEST		
MANUFACTU	RER'S STANDA						SHOP INSPECTION (8.	.1.1)			Yes
OTHER (SEE I	BELOW)						PERFORMANCE CURY	VE			
SPECIFICATION	ON NO.	BK-GNRAL-P	EDCO-000-PI-SP-	0006, "Specification	<del></del>		& DATA APPROVAL F	PRIOR TO SHIPMENT.			YES
		for Painting"					TEST WITH SUBSTITU	UTE SEAL (8.3.3.2.b)			
PUMP:							MATERIAL CERTIFIC	ATION REQUIRED		CASING	YES
PUMP SURFA	CE PREPARAT	ION		SA 2 1/2			SHAFT	YES		(6.12.1.8) IMPELLER	YES
PRIMER				AS PER PROJECT PAI	NTING SPEC.		OTHER	YES	Casing and impel	ler Wear ring	
FINISH COAT				AS PER PROJECT PAI	NTING SPEC.		CASTING REPAIR WE	LD PROCEDURE APPR R	EQD		YES
BASEPLATE:							INSPECTION REQUIR	ED FOR CONNECTION W	VELDS (6.12.3.4.d)		
BASEPLATE S	SURFACE PREF	ARATION		SA 2 1/2			LIQUID PENETRANT		YES	MAG PARTICLE	
PRIMER:				AS PER PROJECT PAI	NTING SPEC.		ULTRASONIC			RADIOGRAPHY	YES
FINISH COAT				AS PER PROJECT PAI	NTING SPEC.		INSPECTION REQUIR	ED FOR CASTINGS			<del></del>
DETAILS OF I	LIFTING DEVIC	CES					LIQUID PENETRANT		YES	MAG PARTICLE	YES
SHIPMENT: (	8.4.1)			EXP	ORT		ULTRASONIC (NOTE	18)	YES	RADIOGRAPHY	·
EXPORT BOX	ING REQUIREI	)		-	YES		HARDNESS TEST REQ	QUIRED (8.2.2.7)			<del></del>
OUTDOOR ST	ORAGE MORE	THAN 6 MON	THS		YES		ADDNL SUBSURFACE	E EXAMINATION (6.12.1.	5) (8.2.1.3)		
SPARE ROTO	R ASSEMBLY	PACKAGED	FOR:							FOR	
ROTOR STOR	AGE ORIENTA	TION (9.2.8.2)								METHOD	
SHIPPING & S	TORAGE CON	TAINER FOR V	ERT STORAGE (9	.2.8.3)							
N ₂ PURGE (9.2	1.8.4)						PMI TESTING REQUIR	RED (8.2.2.8)			
SPARE PART	s							COMPONENTS TO BE T	ESTED		
START-UP					YES		RESIDUAL UNBALAN				
NORMAL MAINTENANCE YES NOTIFICATION OF SUCCESSFUL SHOP							YES				
ı		1	1				PERFORMANCE TEST				YES
ITEM No	PUMP	DRIVER	GEAR	BASE	7	FOTAL	BASEPLATE TEST (7.3	3.21)			
							HYDROSTATIC				WIT
								OF BOWLS & COLUMN (	(9.3.13.2)		<del></del>
		OTT	TED DUD CITA C	ER REQUIREMENTS	,		PERFORMANCE TEST TEST IN COMPLIANC				WIT
COORDIN	IATION MEETI			ER REQUIREMENTS	YES		TEST DATA POINTS T				NFPA 20 NFPA 20
	M DISCHARGE				TES		TEST TOLERANCES T				TABLE 16
MAXIMO	W DISCHARGE	TRESSORE TO	RIVELODE				NPSH (8.3.4.3.1) (8.3.4.				WIT
		OPERATION	TO TRIP SPEED				NPSH-1ST STG ONLY				
	MAX DI		AND/OR NO OF S	STAGES	YES			1.6 OR ISO 9906 (8.3.4.3.2	3)		
CONNEC	ΓΙΟΝ DESIGN A				YES			D TO 110% SITE NPSHA (			
	AL ANALYSIS				NO		RETEST ON SEAL LEAKAGE (8.3.3.2.d)  OBS				
PROGRES	S REPORTS				YES		RETEST GOVERNE ELYMAGE (6.5.5.2.3)  RETEST REQUIRED AFTER FINAL HEAD ADJ (8.3.3.7.b)				<del></del>
OUTLINE	OF PROC FOR	OPTIONAL TE	STS (10.2.5)				COMPLETE UNIT TES	ST (8.3.4.4.1)			WIT
ADDITIO	NAL DATA RE	QUIRING 20 YE	ARS RETENTION	(8.2.1.1)			SOUND LEVEL TEST (	(8.3.4.5)			WIT
					YES		CLEANLINESS PRIOR	TO FINAL ASSEMBLY (	8.2.2.6)		OBSERVE
LATERAL	. ANALYSIS RI	EQUIRED (9.1.3	.4) (9.2.4.1.3)		NO		LOCATION OF CLEAN	NLINESS INSPECTION			
MODAL A	NALYSIS REQ	UIRED (9.3.9.2	)				NOZZLE LOAD TEST			·	
DYNAMIO	C BALANCE RO	OTOR (6.9.4.4)			YES		CHECK FOR CO-PLAN	NAR MOUNTING PAD SU	JRFACES		
INSTALL	ATION LIST IN	PROPOSAL (1	0.2.3.1)		YES		MECHANICAL RUN T	EST UNTIL OIL TEMP S	TABLE		
VFD STEA	ADY STATE DA	AMPED RESPO	NSE ANALYSIS (6	i.9.2.3)		NO	4 HR. MECH RUN AFT	ER OIL TEMP STABLE (	(8.3.4.2.1)		WIT
TRANSIE	NT TORSIONA	L RESPONSE			NO		4 HR. MECH RUN TES	T (8.3.4.2.2)			
BEARING	LIFE CALCUL	ATIONS REQU	IRED (6.10.1.6)				BRG HSG RESONANC	E TEST (8.3.4.7)			
IGNITION	HAZARD ASS	MT TO EN 134	53-1 (7.2.13.e)				STRUCTURAL RESON				
			AWING (10.3.2.3)				REMOVE / INSPECT H	HYDRODYNAMIC BEARI	NGS AFTER TEST		
			D UNIONS (7.5.2.8	)			(9.2.7.5)				
	PLOTTED VIB		TRA (6.9.3.3)				AUXILIARY EQUIPME				
	ΓΙΟΝ BOLTING							NCLUDED IN AUXILIARY			
	M PLATED BOI							IARY EQUIPMENT TEST			
	TO KEEP REPA						IMPACT TEST		PER EN		
	SUBMIT TEST				YES				PER ASM	IE SECTION VIII	
SUBMIT I	NSPECTION C	HECK LIST (8.)	1.5) NUTE 2		YES		REMOVE CASING AF	IER IEST			





# احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

MECHANICAL DATA SHEETS FOR FIRE WATER JOCKEY PUMPS شماره پیمان: پروژه تسهيلات صادر كننده نوع مدرک نسخه

شماره صفحه: 9 **از** 9

053-073-9184	پروڙه BK	بسته کاری GCS	صادر کننده PEDCO	تسهیلات 120	رشته ME	نوع مدر ک	سريال 0028	سخه D05	: ۱۹ز 9 ا	شماره صفحه:	
	DN				ı	DT		D05			
CENTRIFUGAL PUMP DATA SHEET (SI UNIT) - P-2302 A/B (Sheet 6 of 6)											
PRESSURE VESSEL DESIGN CODE REFERENCES											
THESE REFERENCES MUST	Γ BE LISTED BY	THE MANUFAC	CTURER								
CASTING FACTORS USED IN DESIGN ( TABLE 3)											
SOURCE OF MATERIAL PROPERTIES											
WELDING AND REPAIRS (NOTE 15)											
THESE REFERENCES MUST BE LISTED BY TH	E PURCHASER.	(DEFAULT TO	TABLE 11 IF NO	PURCHASER P	REFERENCE IS	STATED)					
ALTERNATE WELDING CODES AND STANDA	RDS										
WELDING REQUIREMENT (APPLICABLE CODE OR STANDARD)									DEFAULT PER TABLE 11		
WELDER/OPERATOR QUALIFICATION								DEFAU	DEFAULT PER TABLE 11		
WELDING PROCEDURE QUALIFICATION								DEFAU	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	E PURCHASER							DEFAULT TO TABLE	E 14	YES	
ALTERNATIVE MATERIAL INSPECTIONS AND	ACCEPTANCE	CRITERIA (SEE	E TABLE 15) (8.2.2	2.5)					_		
TYPE OF INSPECTION		ME	THOD			FOR FABI	RICATIONS	F	OR CASTINGS		
RADIOGRAPHY											
ULTRASONIC INSPECTION											
MAGNETIC PARTICLE INSPECTION											
LIQUID PENETRANT INSPECTION											
VISUAL INSPECTION (all surfaces)											
REMARKS:											
-											
-											
			-				·				