



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیمان:	N	MECHANICAL	DATA SHEE	TS FOR FIRE	WATER MAI	N PUMPS-ELI	ECTRICAL MOTOR	DRIVEN
053-073-9184	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه
033-073-9164	BK	GCS	PEDCO	120	ME	DT	0029	D02

شماره صفحه: 1 از 9

طرح نگهداشت و افزایش تولید 27 مخزن

MECHANICAL DATA SHEETS FOR FIRE WATER MAIN PUMPS - ELECT. MOTOR DRIVEN (P-2301 A)

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	MAY. 2022	IFA	H. Adineh	M. Fakharian	M. Mehrshad	
D02	AUG. 2022	IFA	H. Adineh	M. Fakharian	M. Mehrshad	

Class: 2 CLIENT Doc. Number: F0Z-708860

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



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053-073-9184		پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه
033-073-7104		BK	GCS	PEDCO	120	ME	DT	0029	D02

شماره صفحه: 2 از 9

REVISION RECORD SHEET

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3 4	X	Х	Х		
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053-073-

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

:	شماره پیمان	N	MECHANICAL	DATA SHEET	TS FOR FIRE	WATER MAIN	N PUMPS-ELI	ECTRICAL MOTOR	DRIVEN
3-9184		پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه
7104		BK	GCS	PEDCO	120	ME	DT _	0029	D02

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-0009. with his proposal.

7_{D02}`

- 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 Instead of mechanical seal, vendor shall advise the suitable Packing specification.
- 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 Vendor 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 150% of rated capacity.
- 12 The Suction line size is 12" and discharge line is 10"
- 13 Welding repair procedures shall be submitted for approval.
- 14 Air release valve to be considered by vendor.
- 15 As the pump jobsite environmental condition is fumy and dusty, any required protection for pumps, panels and electrical parts (in accordance with IPS-E-EL-100) in this regard shall be considered by pump manufacturer.
- 16 Ultrasonic Test shall be performed for forged shaft.
- 17 Couplings shall be dry, flexible and spacer type.
- 18 For electrical motor descriptions, refer to 'Specification For MV Induction Motors' Doc. No.BK-GNRAL-PEDCO-000-EL-SP-0017.
- 19 A local control panel shall be considered by vendor to be located next to the pumps as per "Specification For Fire Water Pumps", Doc. No. BK-GCS-PEDCO-120-ME-SP-0005."
- 20 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.
- 21 Pressure sensing lines are in the vendor's scope of supply.
- 22 The pumps shall furnish not less than 150% of rated capacity at not less than 65% of rated head.





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053-073-9184

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

 MECHANICAL DATA SHEETS FOR FIRE WATER MAIN PUMPS-ELECTRICAL MOTOR DRIVEN

 شماره پیمان:
 سریال
 نوع مدرک
 رشته
 تسهبلات
 صادر کننده
 بسته کاری
 پروژه

 BK
 GCS
 PEDCO
 120
 ME
 DT
 0029
 D02

شماره صفحه: 4 از 9

	CEI				
	CLIENT:	National Iran	nian South Oil Company (NISOC))	
	PROJECT TITLE:	BINAK Gas	Compressor Station		
	JOB NUMBER:				
	EQUIPMENT NUMBER:	P-2301 A			
	EQUIPMENT SERVICE:	Fire Water M	Main Pumps - Electrical Motor Dri	iven	
	SERIAL NUMBER:				
	REQ. / SPEC NO. :		DCO-120-ME-SP-0005.		
	PURCH ORDER NO.				
ells coloured thus	contain drop-down	n options			
	contain calculated	values based on inp	out data; do not change.		
	idantify a anaf	Caranaad nama ama-1-	in the document note, and may als	so contain a deam dayye 12-	
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EST MAX SOUND PRESS. LEVEL

EST MAX SOUND POWER LEVEL

MAX. SOUND POWER LEVEL REQ'D (6.1.14)

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

	شماره پیمان:	, M	IECHANIC/	AL DATA SHE	ETS FOR	FIRE WATE	ER MAIN PUMPS-EL	ECTRICAL MO	TOR DRIVEN			
	, -	پروژه	بسته کاری	صادر کننده	هيلات		نوع مدرک رشت	سريال	نسخه		حه : 5 از 9	شماره صف
053-073-9184		BK	GCS	PEDCO	120		ME DT	0029	D02		, ,, , , ,	
		DIX	000	1 LDCC	120	, , ,	IL DI	0029	D02			
				CENTRIFUGA	AL PUMP	DATA SHE	ET (SI UNIT) - P-2301	1 A (Sheet 2 of 6))			•
APPLICABLE TO: PROP	OSAL					A PPI 10	CABLE NTL/INTNTL STA	ANDARD:		NI	FPA20 (2019) & IPS-M-PM	V-125
FOR NISOC						UNIT	CABLE IVIE IIVII VIE SIA	AIADARD.			2015) @ 115 117 11	
SITE BINAK Gas Compresso	or Station					SERVI	CE Fire W	ater Main Pumps	- Electrical Motor Driv	en		
NO. REQ 1	PUMP SI	IZE				TYPE			No. ST			
MANUFACTURER						MODE	L BB1 (V	V.T.C)	SERIA	L NO.		
					L	IQUID CHAI	RACTERISTICS					
	Units	Maximum		Minimum	Note		SERVICE :				INTERMITTE	:NT
LIQUID TYPE OR NAME :		Wa	iter		Max & mir	n	• IF INTERMITTENT N	O. OF STARTS :				
VAPOR PRESSURE :	bara	0.0087		0.1219	values refe	r	PUMPS OPERATE IN:					
DENSITY:	kg/m³		997		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:	cP		1		listed		H2S CONCENTRATION	N (ppm): (6.12.1.12	2)			N.A.
	OPERA'	TING CONDITIO	NS (6.1.2)	7 502	7		CHLORIDE CONCENT	RATION (ppm):			_	
	Units	Maximum		Rated N	ormal	Min	PARTICULATE SIZE (E	DIA IN MICRONS)				
NPSH _A Datum:				C.L. Impeller			PARTICULATE CONCE	ENTRATION (PPM	1)			
PUMPING TEMPERATURE :	°C	50		33		5						
FLOW:	m³/hr			454.2								
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	ļ		101.2								
NPSH _A : HYDRAULIC POWER:	m			6.9			1					
HYDRAULIC POWER:	KW			24.88	- C	TOTE AND I	THE HOLD DATE A					
LOCATION:					5.	ITE AND U	TILITY DATA COOLING WATER:					
	UNHEATED		UNDER	POOF			COOLING WATER:		,	RETURN	DESIGN	
MOUNTED AT :	UNITERTED	TROPIC	CALISATION		_		TEMP			CLICKI	DESIGN	
ELECTRIC AREA CLASSIFICATIO	N: (0		ZONE	SAFE			PRESS.		-			
GROUP		TEMP CLASS			_		SOURCE					
SITE DATA :		_		-	_			ER CHLORIDE CON	CENTRATION:			
ELEVATION (MSL): 12.5	m	BAROM	ETER:	9	90.77	mBar	INSTRUMENT AIR:			kg	MIN kg	_
RANGE OF DESIGN TEMPS:MIN / MA	AX	5		85 °C			STEAM		-	- ~		
RELATIVE HUMIDITY: MIN / MAX		0		100 %	(@ 25.6 °C	2)			DRIVERS	HEAT	ING	
UNUSUAL CONDITIONS:			NA .				TEMP					
UTILITY CONDITIONS:							PRESS.					
ELECTRICITY: DRIVERS	HEATING	CONTROL		SHUTDOWN	\wedge							
VOLTAGE 3300				/	D02							
PHASE 3					D02 \							
HERTZ 50												
]	PERFORMANO	Œ						DRIVE	R (7.1.5)		
PROPOSAL CURVE NO.		RPM					Driver Type			_	INDUCTION MOTOR	_
As Tested Curve No.							GEAR				NO	_
IMPELLER DIA.: RATED	MAX.	MIN.			mm		VARIABLE SPEED REC				NO	_
RATED POWER KW		TCIENCY			(%)		SOURCE OF VARIABL	E SPEED				_
RATED CURVE BEP FLOW (at rated in					n³/hr 3/h		OTHER					=
MIN FLOW : PREFERRED OPERATING REGION (6	kJ/Nm³				n³/hr n³/hr		MANUFACTURER NAMEPLATE POWER		@Site Condition			KW
ALLOWABLE OPERATING REGION	,.1.11)		to		n³/hr		Nominal RPM		@Sile Condition			- KW
MAX HEAD @ RATED IMPELLER			to		m m		RATED LOAD RPM					_
MAX POWER @ RATED IMPELLER					kW		FRAME OR MODEL					-
NPSH3 AT RATED FLOW:					m		ORIENTATION				HORIZONTAL	_
CL PUMP TO U/S BASEPLATE					m		LUBE			_	- CALLONIAL	-
NPSH MARGIN AT RATED FLOW:					m		BEARING TYPE:			_		=
SPECIFIC SPEED (6.1.9)							RADIAL			_	1	=
SUCTION SPECIFIC SPEED LIMIT							THRUST				- · ·	_
SUCTION SPECIFIC SPEED							STARTING METHOD			D.O.L/Ope	en Discharge Valve	_
MAN, ALLOW, COUNT DRESS, LEVE	T DEOD (C 1 14)				ID A	0.1	CEE DRIVED DATA CH	IDDT		*		=

(dBA)

Max Voltage Variation

Max Frequency Variation

Max Voltage and Frequency Variation together





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MECHANICAL DATA SHEETS FOR FIRE WATER MAIN PUMPS-ELECTRICAL MOTOR DRIVEN شماره پیمان: نوع مدر ک شماره صفحه: 6 از 9 پروژه تسهیلات صادر کننده بسته کاری رشته 053-073-9184 BK PEDCO DT 0029 D02 GCS 120 ME

					(CENTRIFUGA	L PUMP DATA SHE	ET (SI UNIT) - P-2301 A (Sheet 3 of	f 6)		
							CONST	RUCTION			
API PUMP TYPE:	В	B1	[E	Based on API 610	definitions]			CASING MOUNTING:			
								CASING TYPE:	(6.3.10)	-	
NOZZLE CONNECTIO	NS:	(6.	5.5)	NOTES 7,12				OH3 BACKPULLOUT LIFTING DEVICE	E REQD. (9.1.2.6)		700
		Size	Facing	Rating		Position	1	CASE PRESSUR	RE RATING:		D02 \
SUCTION			RF	150		SIDE		MAWP:	(6.3.5)	By Vendor	oarg @
DISCHARGE			RF	150		SIDE		HYDROTEST	:	1.5*MAWP	oarg @ °(
PRESSURE CASING A	UX. CON	NECTION	S: (6.4.3.2))							
	No.	Size	Type	Facing	Rating	Posn.		HYDROTEST OH PUMP AS A	ASSEMBLY		YES
BAL/LEAK OFF								SUCT'N PRESS. REGIONS DES	SIGNED FOR MAWP		YES
DRAIN								ROTATION:	(VIEWED FROM COUL	PLING END)	
VENT								IMPELLERS IN	NDIVIDUALLY SECURED :		
PRESSURE GAGE								 BOLT OH 3/4/5 	5 PUMP TO PAD / FOUNDATION:		
TEMP GAGE								PROVIDE SOI	LEPLATE FOR OH 3/4/5 PUMPS		
WARM-UP LINE								ROTOR:			
								SHAFT FLEXIBILITY INDEX (SFI) (9.1.1.3)		
Drain Valve Supplied	l By				SUP	PLIER	=	First Critical Speed Wet (Multi st	tage pumps only)		
DRAINS MANIFOL	DED				1	ÆS		COMPONENT BALANCE TO I			NO
VENT Valve Supplie	d By				SUP	PLIER	=	SHRINK FIT -LIMITED MOVE	MENT IMPELLERS (9.2.2.3)		
VENTS MANIFOLD	ED				1	/ES	=	COUPLING:(7.2.3)	(7.2.13.f)	NOTE 1	7
THREAD. CONS FOR						NO	=	MANUFACTURER		_	
SPECIAL FITTINGS	FOR TRA	NSITIONI	NG (6.4.3.3	3)		NO	=	MODEL		_	
CYLINDRICAL THE	READS RE	QUIRED (6.4.3.8)			NO	=	RATING (POWER/100 RPM)			
GUSSET SUPPORT	REQUIRE	ED				YES	If Needed	SPACER LENGTH			mm
MACHINED AND S	TUDDED	CONNEC	TIONS (6.4	.3.12)		NO	=	SERVICE FACTOR			Min 1.5
VS 6 DRAIN						N/A	=	RIGID			NO
DRAIN TO SKID EI	OGE					YES		COUPLING WITH HYDRAULIO	C FIT (7.2.10)		
				ATERIAL (6.1	2.1.1)			COUPLING BALANCED TO IS			YES
APPENDIX H CLASS				I-2	NOTE 3			COUPLING WITH PROPRIETA	ARY CLAMPING DEVICE (7.2.11)		
MIN DESIGN METAL T						5	°C				
REDUCED-HARDNESS			(6.12.1.12	.1)				COUPLING IN COMPLIANCE		=	API 610 compliant
Applicable Hardness Stan	dard (6.12.1	1.12.3)						COUPLING GUARD STANDAR	RD PER (7.2.13.a)		ISO 14120
BARREL:								Window on Coupling Guard			
CASE:											
DIFFUSERS								101010100101000	BASEPLATE		
IMPELLER:								API BASEPLATE NUMBER :			
IMPELLER WEAR RING	i:							BASEPLATE CONSTRUCTION			n la part n
CASE WEAR RING :								BASEPLATE DRAINAGE (7.3.1	1)	Enti	re Baseplate Drain Pan
SHAFT:								MOUNTING:	N. (7.2.10)		
Bowl (if VS-type)								NON-GROUT CONSTRUCTION		-	DEOLIDED
Inspection Class (Note 2)		DEADD	CC AND	LIBBIOLER	ON (C 10 1 1)	(T/TD A.)		VERTICAL LEVELING SCREW LONGITUDINAL DRIVER POS		-	REQUIRED
BEARING (TYPE / NUM			1.4)	LUBRICATI	ON (6.10.1.1)	(VIA)		SUPPLIED WITH:	GROUT AND VEI	NT HOLES	REQUIRED YES
RADIAL	IDEK):	(0.1	(1.4)					SUPPLIED WITH:	DRAIN CONNEC		YES
THRUST			,					MOLINITING DADS SIZED FOR	BASEPLATE LEVELING (7.3.5)	HON	YES
REVIEW AND APPROV	E TUDITO	r de adini	C SIZE · (0	2524)				MOUNTING PADS TO BE MAD			YES
KEVIEW AND AFFROY	L IIIKUS	DEARIN	G SIZE . (9	.2.3.2.4)				PROVIDE SPACER PLATE UN			YES
LUBRICATION:	(6.10.2	.2) (6.11.3)	(926)				_	OTHER	DER ALE EQUI MENT TEET		
PRESSURE LUBE S					(9.2.6.5)		_	OTILK			
I KLOGUKE LUBE S	. DIEWI I			SHEETS ATTAC	-		_				
Pressurized Lube Oil	System mt			ALLIS ATTAC	******			REMARKS:			
Location of Pressurize				asenlate :			_	KEMAKKO.			
Location of Fressurizi	LA LADE OI	. әумеш Ш	ounce on D	шеріше .							
INTERCONNECTIN	IG PIPING	PROVIDE	D BY		ę	pplier					
OIL VISC. ISO GRA		+ 1171:		VG		PPACI	_				
CONSTANT LEVEL				VG			_				
CONSTANT LEVEL	JILER :										



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033-073-7104	BK	GCS	PEDCO	120	ME	DT	0029	D02	

CENTRIFUGAL F	PUMP DATA SHEE	T (SI UNIT) - P-2301 A (Sheet 4 of 6)	
INSTRUMENTATION	T	SEAL SUPPORT SYST	EM MOUNTING
SEE ATTACHED API-670 DATA SHEET		SEAL SUPPORT SYSTEM MOUNTED ON PUMP BASEPLA	TE
ACCELEROMETER (7.4.2.1)			(7.5.1.4)
Number of Accelerometers		IDENTIFY LOCATION ON BASEPLATE	
Mounting Location of Accelerometers			
		INTERCONNECTING PIPING BY	Supplier
PROVISION FOR MTG ONLY (6.10.2.10) YES	L		
Number of Accelerometers	Į.	MECHANICAL S	
Mounting Location of Accelerometers		SEE ATTACHED ISO 21049/API 682 DATA SHEET	N/A NOTE 5
(2.40.11)		ADDITIONAL CENTRAL FLUSH PORT	(6.8.9)
FLAT SURFACE REQUIRED (6.10.2.11) N/A	1	HEATING JACKET REQ'D.	(6.8.11) N/A
Number of Accelerometers		FLUSH PLAN	
Mounting Location of Accelerometers			
VIBRATION PROBES (7.4.2.2) N/A	}	HEATING AND CO	OLING (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	
			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	
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)	Ī	PIPING & APPUR	TENANCES
PRESSURE GAUGE TYPE	Ī	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)	



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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

CENTRIFUGAL PUMP DATA SHEET (SI UNIT) - P-2301 A (Sheet 5 of 6)

MECHANICAL DATA SHEETS FOR FIRE WATER MAIN PUMPS-ELECTRICAL MOTOR DRIVEN شماره پیمان: تسهیلات صادر کننده بسته کاری پروژه رشته نوع مدر ک 053-073-9184 GCS PEDCO ME DT 0029 D02 120

شماره صفحه: 8 از 9

		SUL	RFACE PREPAI	RATION AND PAINT			TEST		
MANUFACTU	RER'S STAND	ARD				SHOP INSPECTION (8.1.1)			Yes
OTHER (SEE I	BELOW)					PERFORMANCE CURVE			
SPECIFICATION	ON NO.	BK-GNRAL-P	EDCO-000-PI-SP-	-0006, "Specification		& DATA APPROVAL PRIOR TO SHIPME	NT.		YES
		for Painting"				TEST WITH SUBSTITUTE SEAL (8.3.3.2.b)	p)		
PUMP:						MATERIAL CERTIFICATION REQUIRED		CASING	YES
PUMP SURFA	CE PREPARAT	TON				SHAFT YE	S	(6.12.1.8) IMPELLER	YES
PRIMER			-	AS PER PROJECT PAI	NTING SPEC.	OTHER YE	S Casing and impell	er Wear ring	
FINISH COAT				AS PER PROJECT PAI	NTING SPEC.	CASTING REPAIR WELD PROCEDURE A		•	YES
BASEPLATE:						INSPECTION REQUIRED FOR CONNECT	TON WELDS (6.12.3.4.)	d)	
	SURFACE PREI	PARATION				LIQUID PENETRANT	YES	MAG PARTICLE	
PRIMER:			-	AS PER PROJECT PAI	NTING SPEC	ULTRASONIC		RADIOGRAPHY	YES
FINISH COAT				AS PER PROJECT PAI		INSPECTION REQUIRED FOR CASTINGS		-	
	LIFTING DEVIC	TEC		ASTERTROJECTIAL	ATENG SI EC.	LIQUID PENETRANT	YES	MAG PARTICLE	YES
SHIPMENT:		.1.3		EXP	OPT	ULTRASONIC	YES	RADIOGRAPHY	1123
		D		EAI	YES		1123	- KADIOOKAFIII	
	ING REQUIRE		TITO		YES	HARDNESS TEST REQUIRED (8.2.2.7)	(12.1.5) (0.2.1.2)		
		THAN 6 MON			TES	ADDNL SUBSURFACE EXAMINATION (0.12.1.5) (8.2.1.5)	TOD	
		PACKAGED	FOR:					FOR	
	AGE ORIENTA							METHOD	
		TAINER FOR V	ERT STORAGE (9	.2.8.3)					
N ₂ PURGE (9.2						PMI TESTING REQUIRED (8.2.2.8)			
SPARE PART	S					COMPONENTS TO	D BE TESTED		
START-UP					YES	RESIDUAL UNBALANCE TEST (J.4.1.2)			
NORMAL MA	INTENANCE				YES	NOTIFICATION OF SUCCESSFUL SHOP			YES
	•	•				PERFORMANCE TEST (8.1.1.c) (8.3.3.5)			YES
ITEM No	PUMP	DRIVER	GEAR	BASE	TOTAL	BASEPLATE TEST (7.3.21) HYDROSTATIC			WIT
			_			HYDROSTATIC HYDROSTATIC TEST OF BOWLS & COL	HMN (0.3.13.2)		WII
						PERFORMANCE TEST	0.0.1.1 (7.0.1.5.2)		WIT
		OTE	IED DUDCHAS	ER REQUIREMENTS	1	TEST IN COMPLIANCE WITH (8.3.3.2)			NFPA 20
COOPDIA	JATION MEET	ING REQUIRED		EK KEQUIKEMENT	YES	TEST DATA POINTS TO (8.3.3.3)			NFPA 20
		E PRESSURE TO			TES	TEST TOLERANCES TO (8.3.3.4)			TABLE 16
WAXING	M DISCHARGE	FRESSORE IV) INCLUDE					NOTE 6	WIT
		ODED ATION	TO TRIP SPEED			NPSH (8.3.4.3.1) (8.3.4.3.4)		NOTE 6	WII
						NPSH-1ST STG ONLY (8.3.4.3.2)	2.4.2.0		
			AND/OR NO OF S	TAGES	YES	NPSH TESTING TO HI 1.6 OR ISO 9906 (8			
		APPROVAL (9.2			YES	TEST NPSHA LIMITED TO 110% SITE NF	SHA (8.3.3.6)		
		/ REPORT (6.9.	2.10)		NO	RETEST ON SEAL LEAKAGE (8.3.3.2.d)			OBSERVE
	SS REPORTS				YES	RETEST REQUIRED AFTER FINAL HEAD	O ADJ (8.3.3.7.b)		
		OPTIONAL TE				COMPLETE UNIT TEST (8.3.4.4.1)			WIT
ADDITIO	NAL DATA RE	QUIRING 20 YE	EARS RETENTION	(8.2.1.1)		SOUND LEVEL TEST (8.3.4.5)			WIT
					YES	CLEANLINESS PRIOR TO FINAL ASSEM			OBSERVE
LATERAI	L ANALYSIS RI	EQUIRED (9.1.3	.4) (9.2.4.1.3)		NO	LOCATION OF CLEANLINESS INSPECTI	ON		
MODAL A	ANALYSIS REQ	UIRED (9.3.9.2)			NOZZLE LOAD TEST			
DYNAMI	C BALANCE R	OTOR (6.9.4.4)			YES	CHECK FOR CO-PLANAR MOUNTING P	AD SURFACES		·
INSTALL	ATION LIST IN	PROPOSAL (10	0.2.3.1)		YES	MECHANICAL RUN TEST UNTIL OIL TE	EMP STABLE		
VFD STE	ADY STATE DA	AMPED RESPO	NSE ANALYSIS (6	5.9.2.3)	NO	4 HR. MECH RUN AFTER OIL TEMP STA	ABLE (8.3.4.2.1)		WIT
TRANSIE	NT TORSIONA	L RESPONSE			NO	4 HR. MECH RUN TEST (8.3.4.2.2)			
BEARING	LIFE CALCUL	ATIONS REQU	IRED (6.10.1.6)			BRG HSG RESONANCE TEST (8.3.4.7)			
IGNITION	HAZARD ASS	MT TO EN 134	63-1 (7.2.13.e)			STRUCTURAL RESONANCE TEST (9.3.9	.2)		
CASING I	RETIREMENT	THICKNESS DR	RAWING (10.3.2.3)			REMOVE / INSPECT HYDRODYNAMIC	BEARINGS AFTER TES	ST	
FLANGES	ROD IN PLAC	E OF SKT WEL	D UNIONS (7.5.2.8))		(9.2.7.5)			
		BRATION SPEC				AUXILIARY EQUIPMENT TEST (8.3.4.6)			
	TION BOLTING		(/			EQUIPMENT TO BE INCLUDED IN AUX			
		LTS PROHIBITI				LOCATION OF AUXILIARY EQUIPMENT			
		AIR AND HT RO				IMPACT TEST		N 13445	
		PROCEDURES			YES	IMPACT IEST		SME SECTION VIII	
		PROCEDURES HECK LIST (8.1	,		YES	REMOVE CASING AFTER TEST	PER A	SIME SECTION VIII	
SUBMIT	INSPECTION C	HECK LIST (8.1	.5) NOTE 2		TES	REMOVE CASING AFTER TEST			



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 MAIN PUMPS-ELECTRICAL MOTOR DRIVEN

 نسخه
 سریال
 نوع مدر ک
 رشته
 تسهیلات
 صادرکننده
 بینه کاری
 پروژه

 BK
 GCS
 PEDCO
 120
 ME
 DT
 0029
 D02

شماره صفحه: 9 از 9

CENTRIFUGAL PUMP DATA SHEET (SI UNIT) - P-2301 A (Sheet 6 of 6)				
	PRESSURE VESSE	EL DESIGN CODE REFERENCES		
THESE REFERENCES MUST BE LISTED BY THE MANUFACTURER				
CASTI	NG FACTORS USED IN DESIGN (TABLE 3)		=	
SOURCE OF MATERIAL PROPERTIES				
WELDING AND REPAIRS (NOTE 13)				
THESE REFERENCES MUST BE LISTED BY THE PURCHASER. (DEFAULT TO TABLE 11 IF NO PURCHASER PREFERENCE IS STATED)				
ALTERNATE WELDING CODES AND STANDARDS				
WELDING REQUIREMENT (APPLICABLE CODE OR STANDARD)			DEFAULT PER TABLE 11	
WELDER/OPERATOR QUALIFICATION WELDING PROCEDURE QUALIFICATION			DEFAULT PER TABLE 11 DEFAULT PER TABLE 11	
NON-PRESSURE RETAINING STRUCTURAL WE	ELDING SUCH AS BASEPLATES OR SUPPORTS		DEFAULT PER TABLE 11	<u> </u>
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 THE			EFAULT TO TABLE 14	YES
ALTERNATIVE MATERIAL INSPECTIONS AND ACCEPTANCE CRITERIA (SEE TABLE 15) (8.2.2.5)				
TYPE OF INSPECTION	METHOD	FOR FABRICATIONS	FOR CASTINGS	
RADIOGRAPHY				
ULTRASONIC INSPECTION				
MAGNETIC PARTICLE INSPECTION LIQUID PENETRANT INSPECTION				
VISUAL INSPECTION (all surfaces)				