



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

	شماره پیمان:	ı	MECHANICAL	DATA SHEE	TS FOR FIRE	WATER MAII	N PUMPS-ELE	ECTRICAL MOTOR I	DRIVEN
•04-•44-4184		پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدر ک	سريال	نسخه
		BK	GCS	PEDCO	120	ME	DT	0029	D04

شماره صفحه: ۱ از ۹

طرح نگهداشت و افزایش تولید ۲۷ 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	
D03	OCT. 2022	IFA	H. Adineh	M. Fakharian	M. Mehrshad	
D04	DEC. 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



.04-.44-4144

نگهداشت و افزایش تولید میدان نفتی بینک سطحالارض

HIRGAN

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیمان:

MECHANICAL DATA SHEETS FOR FIRE WATER MAIN PUMPS-ELECTRICAL MOTOR DRIVEN صادر کننده بسته کاری نوع مدرک BK GCS PEDCO DT 0029 D04 120 ME

شماره صفحه: ۲ از ۹

N RECORD SHEET

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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

	شماره پیمان:	MECHANICAL DATA SHEETS FOR FIRE WATER MAIN PUMPS-ELECTRICAL MOTOR DRIVEN									
•۵٣-•٧٣-٩1٨۴		پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه	از ۹	
		BK	GCS	PEDCO	120	ME	DT	0029	D04		

شماره صفحه: ۳ از ۹

GENERAL NOTES

D04

- 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.
- 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 according to project site condition; "Process Basis of Design; BK-GNRAL-PEDCO-000-PR-DB-0001".
- 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 There is no LCP for main electric motor. There is only LCS to stop (push button, return type) motor. Start (push button, return type) will be done from LCS, Pressure switch of water pipe & F&G system. Providing LCS without Local/Remote selector switch & with ammeter is in vendor scope of work.
- 20 Pressure sensing lines are in the vendor's scope of supply.
- 21 The pumps shall furnish not less than 150% of rated capacity at not less than 65% of rated head.
- 22 Design pressure is 15.4 barg also as per NFPA 20 standard the hydrotest pressure shall not be less than 17.24 barg.
- 23 Estimated BHP at rated capacity is 199.2 kW by considering 65% efficiency.
- 24 Range of ambient temperature (min. / max.): 5 / 55 °c , Maximum temperature of metal surface exposed to the sun (°C): 85 °c .
- Vendor shall consider all of the derating factors for electrical motor power such as API factor, temperature, elevation and coupling factor so that shall not be less than maximum demand power. Also the diesel engine continuous rating available at the coupling, after de-rating required for the type of service, ambient temperature,
- 26 fuel quality, Altitude, shall exceed the maximum power demand at 100% speed by not less than 10%.
- 27 The motor service factor: 1 (shall be followed by vendor)



Chiragan HIRGAN ENERGY

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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

:	شماره پیمان:	ı	MECHANICAL DATA SHEETS FOR FIRE WATER MAIN PUMPS-ELECTRICAL MOTOR DRIVEN										
۵۳-۰۷۳-۹۱۸۴		پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سر يال	نسخه				
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شماره صفحه: ۴ از ۹

		TRIFUGAL PUMP DATA SHEET (SI UNIT) - P-2301 A (Sheet 1 of 6)	
	CLIENT:	National Iranian South Oil Company (NISOC)	
	PROJECT TITLE:	BINAK Gas Compressor Station	
	JOB NUMBER:		
	EQUIPMENT NUMBER:	P-2301 A	
	EQUIPMENT SERVICE:	Fire Water Main Pumps - Electrical Motor Driven	
	SERIAL NUMBER:		
	REQ. / SPEC NO. :	BK-GCS-PEDCO-120-ME-SP-0005.	
	PURCH ORDER NO.		
Cells coloured thus	contain drop-down of	options	
	contain calculated va	alues based on input data; do not change.	
	identify a cross refer	renced paragraph in the document note, and may also contain a drop down list	
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COM	MENTS:		
	ITEM No. ATT	DATA SHEETS ITEM No. ATT ITEM No.	ATT
PUMP MOTOR	P-2301 A YES		
GEAR TURBINE			
			





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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک MECHANICAL DATA SHEETS FOR FIRE WATER MAIN PUMPS-ELECTRICAL MOTOR DRIVEN

•۵٣-•٧٣-91.4		پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه		باره صفحه: ۵ از ۹	شه
• \(\sigma \) = \(\gamma \) = \(\gamma \)		BK	GCS	PEDCO	120	ME	DT	0029	D04			
			CE	ENTRIFUGAI	L PUMP DATA	A SHEET (SI UNIT) - P-2301	1 A (Sheet 2 of 6)	^			
APPLICABLE TO: PROPO	SVI					ADDI ICADI	LE NTL/INTNTL STA	ANDARD:	004 NFPA2	00 (2010) &	: IPS-M-PM-125, IPS-E-El-1	00 (1)
FOR NISOC	JAL					UNIT	LE INTERINITATE STA	ANDARD.	NFI AZ	70 (2019) &	: 11 S-W1-1 W1-125, 11 S-E-E1-1	00 (1)
SITE BINAK Gas Compresso	n Station					SERVICE	Fine We	ater Main Pumps - Elect	wicel Motor Driven			
NO. REQ 1	PUMP SI	ZE				TYPE	The Wa	iter Main Fumps - Elect	No. STAGES			
MANUFACTURER	PUNIP SI	ZE				MODEL	BB1 (V	T.C)	SERIAL NO.			
WANUFACTURER					LIOUI		TERISTICS	.1.0)	SEKIAL NO.			
	Units	Maximum	Ι,	Minimum	Note		RVICE:				INTERMITTENT	
LIQUID TYPE OR NAME :	Units	Wat		viiiiiiuiii	Max & min		INTERMITTENT NO	OF STARTS.				
	1	0.0087		0.1219				J. OF STAKTS.				
VAPOR PRESSURE :	bara	0.0087		0.1219	values refer		MPS OPERATE IN:	(6.10.1.0)				
DENSITY:	kg/m³		997		only to the		RROSION DUE TO :					
SPECIFIC HEAT:	kj/kgC		4.186		property		OSION DUE TO : (6.					NT 4
VISCOSITY :	cP OPERAT	EING COMPLETO	1		listed		S CONCENTRATION					N.A.
	1	TING CONDITION		. 1	, 1		LORIDE CONCENTI					
NPSH _A Datum:	Units	Maximum	Ra		rmal N		RTICULATE SIZE (D					
**	00	50		L. Impeller	1		RTICULATE CONCE	ENTRATION (PPM)				
PUMPING TEMPERATURE :	°C	50		3		5						
FLOW:	m³/hr		454									
DISCHARGE PRESSURE :(6.3.2)	barg	0.02	10			00						
SUCTION PRESSURE :	barg	0.83	0.3		0.	.08						
DIFFERENTIAL PRESSURE :	bar		10									
DIFFERENTIAL HEAD :	m		10:									
NPSH _A :	m		8.									
HYDRAULIC POWER: (Note 23)	KW	l	129	0.50								
					SITE A		ITY DATA					
LOCATION:		-			D04	Co	OLING WATER:					
	NHEATED	_	NDER SUNS		D04				RETUR	N I	DESIGN	
MOUNTED AT:			ALISATION F	REQ'D			TEMP					
ELECTRIC AREA CLASSIFICATIO			ONE	SAFE	_		PRESS.					
GROUP		TEMP CLASS			_		SOURCE					
SITE DATA:							COOLING WATE	ER CHLORIDE CONCENT	RATION:			
ELEVATION (MSL): 12.5	m _	BAROM	ETER :	99	0.77	mBar INS	STRUMENT AIR:		kg	MI	Nkg	
RANGE OF DESIGN TEMPS:MIN / MA	AX	5	8	5 °C		STE	EAM	i	1		1	
RELATIVE HUMIDITY: MIN / MAX		0	9	0 %	(@ 25.6 °C)				DRIVERS H	EATING		
UNUSUAL CONDITIONS:		<u>N</u>	VA.				TEMP					
UTILITY CONDITIONS:	1	i.	1				PRESS.					
ELECTRICITY: DRIVERS	HEATING	CONTROL	SF	HUTDOWN								
VOLTAGE 3300					_							
PHASE 3					_							
HERTZ 50												
	F	PERFORMANC	E						DRIVER (7.1.	5)		
PROPOSAL CURVE NO.		RPM				Dri	ver Type			INDU	UCTION MOTOR	
As Tested Curve No.						GE.	AR				NO	
IMPELLER DIA.: RATED	MAX.	MIN.		n	nm	VA	RIABLE SPEED REQ	QUIRED			NO	
RATED POWER Kw	EFF	ICIENCY	- <u></u>	(%)	SO	URCE OF VARIABLE	E SPEED				
RATED CURVE BEP FLOW (at rated in	mpeller dia)			m	³/hr	OT	HER					
MIN FLOW :	kJ/Nm³			m	³/hr	MA	NUFACTURER					
PREFERRED OPERATING REGION (6	5.1.11)	to		m	³/hr	NA	MEPLATE POWER		@Site Condition		KW	
ALLOWABLE OPERATING REGION		tc		m	³/hr	Nor	ninal RPM					
MAX HEAD @ RATED IMPELLER					m	RA'	TED LOAD RPM					
MAX POWER @ RATED IMPELLER				k	W	FRA	AME OR MODEL					
NPSH3 AT RATED FLOW:					m	OR	IENTATION			H	ORIZONTAL	
CL PUMP TO U/S BASEPLATE					m	LUI	BE					
NPSH MARGIN AT RATED FLOW:					m	BE	ARING TYPE:					
SPECIFIC SPEED (6.1.9)						RA	DIAL				1	
SUCTION SPECIFIC SPEED LIMIT			-			TH	RUST					
SUCTION SPECIFIC SPEED						STA	ARTING METHOD		D.O.L	Open Disch	harge Valve	
MAX. ALLOW. SOUND PRESS. LEVE	EL REQD (6.1.14	4)	8	5 (dI	BA) @	1 m SEI	E DRIVER DATA SH	EET	-	\wedge	Note 1	
EST MAX SOUND PRESS. LEVEL	•				BA)	Max	x Voltage Variation				±10%	
MAX. SOUND POWER LEVEL REQ'D	0 (6.1.14)		-				x Frequency Variation		_	/D04\	±5%	
EST MAX SOUND POWER LEVEL			-					acy Variation together			±10%	
							O / Type		YES / PT100	(According	to IPS-M-EL-132)	





احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیمان:

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

.02-.72-9176

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

 BK
 GCS
 PEDCO
 120
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 D04

شماره صفحه: ۶ از ۹

					(CENTRIFUGAI	L PUMP DATA SHE	EET (SI UN	IIT) - P-2301 A (Sh	neet 3 of 6)					
							CONST	RUCTION	I						
API PUMP TYPE:	В	B1	[B	ased on API 61	0 definitions]			CASING	MOUNTING:						
								CASING	TYPE:		(6.3.10)				
NOZZLE CONNECTI	ONS:	(6.5	5.5)	NOTES 7,12	/ D04 \			OH3 BACKPULLOUT LIFTING DEVICE REQD. (9.1.2.6)							
		Size	Facing	Rating	;	Position		CASE PRESSURE RATING:							
SUCTION			RF	300		SIDE	1		MAWP	' :	(6.3.5)	By Vendor	barg @		°C
DISCHARGE			RF	300		SIDE			HYDRO	OTEST :		1.5*MAWP	barg @		°C
PRESSURE CASING	AUX. CON	NECTIO	NS: (6.4.3	.2)											
	No.	Size	Type	Facing	Rating	Posn.]	Н	YDROTEST OH PUN	MP AS ASSEME	BLY			YES	
BAL./LEAK OFF							1	S	UCT'N PRESS. REGIO	ONS DESIGNED	FOR MAWP			YES	
DRAIN								R	OTATION:		(VIEWED FROM CO	JPLING END)			
VENT									 IMPELI 	LERS INDIVIDU	JALLY SECURED :				
PRESSURE GAGE											ΓΟ PAD / FOUNDATION	:	=		
TEMP GAGE											FOR OH 3/4/5 PUMPS				
WARM-UP LINE								R	OTOR:						
							J		HAFT FLEXIBILITY II	NDEX (SFI) (9.1	.1.3)				
Drain Valve Supplie	ed By				SUE	PPLIER			rst Critical Speed Wet (
DRAINS MANIFO	-					YES	-		OMPONENT BALANG		• .			NO	
	VENT Valve Supplied By SUPPLIER								HRINK FIT -LIMITED						
VENTS MANIFOL						YES	-		OUPLING:(7.2.3)	WO VEWENT IN	(7.2.13.f)	NOT	F 17		
THREAD. CONS FO		F SERVICE	& < 50°C	(6432)		NO	-		ANUFACTURER		(7.2.13.1)	NOI	217		
SPECIAL FITTING						NO	-		ODEL						
CYLINDRICAL TH				3.3)		NO	-		ATING (POWER/100 I	DDM)					
			(0.4.3.6)				- If Needed		PACER LENGTH	Krwi)			_		
GUSSET SUPPORT REQUIRED YES If Needed MACHINED AND STUDDED CONNECTIONS (6.4.3.12)													Min 1.5	mm	
	MACHINED AND STUDDED CONNECTIONS (6.4.3.12) VS 6 DRAIN N/A								ERVICE FACTOR						
VS 6 DRAIN DRAIN TO SKID E	EDCE				-		-		IGID		2.10)			NO	
DRAIN TO SKID E	EDGE		N/4	TEDIAL (C.1	(2.1.1)	YES		-	OUPLING WITH HYD					- X/EC	
APPENDIX H CLASS				ATERIAL (6.1				-	OUPLING BALANCEI					YES	
	TEMD (6.1)	2.4.1)	-	I-2	NOTE 3	=	90		JUPLING WITH PRO	PRIETART CLA	MPING DEVICE (7.2.11)				
MIN DESIGN METAL			D (6.12.1	12.1)		5	°C		OUPLING IN COMPLI	IANCE WITH (7	2.4)		A DI 610	compliant	
REDUCED-HARDNES			D (0.12.1.	12.1)					OUPLING IN COMPLI OUPLING GUARD ST					O 14120	
Applicable Hardness Sta BARREL:	ndard (6.12	1.12.3)	-								(7.2.13.a)			U 14120	
CASE:								"	indow on Coupling Gua	aru					
DIFFUSERS											BASEPLATE				
IMPELLER:								<u> </u>	PI BASEPLATE NUM	DED .	BASEPLATE				
	·C .														
IMPELLER WEAR RIN	G:								ASEPLATE CONSTRU		1		ntire Baseplat	- D ! D	
CASE WEAR RING:									ASEPLATE DRAINAC	JE (7.3.1)			ntire Basepiat	e Drain Pan	
SHAFT:									OUNTING:	NICTION (7.2.1	2)				
Bowl (if VS-type)									ON-GROUT CONSTR		.3)				
Inspection Class (Note 2		DE A DIN	GG AND	LUDDICATI	ON (C 10 1 1)	(XIII) A.)		-	ERTICAL LEVELING		IC CODENIC		REQUI		
DEADING (EVIDE AND				LUBRICATI	ON (6.10.1.1)	(VTA)		-	ONGITUDINAL DRIV	ER POSITIONIN		ENTE HOLEG	REQU		
BEARING (TYPE / NU	MBER):	(6.1	1.4)					S	JPPLIED WITH:		GROUT AND V			YI	
RADIAL			/								DRAIN CONNE	CTION		YI	
THRUST			/								LATE LEVELING (7.3.5)			YI	
REVIEW AND APPRO	VE THRUS	ST BEARII	NG SIZE :	(9.2.5.2.4)					OUNTING PADS TO					YI	
							-		ROVIDE SPACER PLA	ATE UNDER AL	L EQUIPMENT FEET			YI	ES
LUBRICATION:		.2) (6.11.3)					-	0	THER						
PRESSURE LUBE	SYSTEM '				(9.2.6.5)		-	1 –							
				SHEETS ATTA	CHED										
Pressurized Lube O	-		-				-	R	EMARKS:						
Location of Pressuri	zed Lube C	il System r	nounted on	baseplate:				l _							
								l _							
INTERCONNECTI	NG PIPINO	G PROVID	ED BY		Su	pplier	-	_							
OIL VISC. ISO GR.	ADE			VO	i		_	1 _							
CONSTANT LEVE	EL OILER :							1 _							
								1							





NISOC

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

	شماره پیمان:	М	MECHANICAL DATA SHEETS FOR FIRE WATER MAIN PUMPS-ELECTRICAL MOTOR DRIVEN										
.0444-1146		پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه				
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شماره صفحه: ۷ از ۹

CENTRIFU	GAL PUMP DATA SHEET (SI UNIT) - P-2301 A (Sheet 4 of 6)	
INSTRUMENTATION	SEAL SUPPORT SYSTEM MOU	NTING
SEE ATTACHED API-670 DATA SHEET	SEAL SUPPORT SYSTEM MOUNTED ON PUMP BASEPLATE	TILIO
ACCELEROMETER (7.4.2.1)	— SEALESOFF ON STSTEM MOCKELED STATEMENT	(7.5.1.4)
Number of Accelerometers	IDENTIFY LOCATION ON BASEPLATE	
Mounting Location of Accelerometers	— IDENTIFY LOCATION ON DASEI LATE	
Mounting Location of Accelerometers	INTERCONNECTING PIPING BY	Committee
PROVISION FOR MTG ONLY (6.10.2.10) YES	INTERCONNECTING PIPING BT	Supplier
	MECHANICAL CEAL (()	
Number of Accelerometers	MECHANICAL SEAL (6.8.1	
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) N/A	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 COOLING (6.	1.17)
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	
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 & APPURTENANCI	<u>es</u>
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)	
		
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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

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

.04-.44-1146

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

 BK
 GCS
 PEDCO
 120
 ME
 DT
 0029
 D04

شماره صفحه: ۱۸ز ۹

				CF	NTRIFUGAL PUMP DATA SHEE	Γ (SI UNIT) - P-2301 A (Sheet 5 of 6)					
		SUR	FACE PREPAI	RATION AND PAIN			TEST				
MANUFACTU	RER'S STAND	OARD				SHOP INSPECTION (8.1.1)			Yes		
OTHER (SEE I	BELOW)					PERFORMANCE CURVE					
SPECIFICATIO	ON NO.	BK-GNRAL-H	PEDCO-000-PI-SF	2-0006, "Specification		& DATA APPROVAL PRIOR TO SHIPME	ENT.		YES		
		for Painting"				TEST WITH SUBSTITUTE SEAL (8.3.3.2.	b)				
PUMP:						MATERIAL CERTIFICATION REQUIRED)	CASING	YES		
PUMP SURFA	CE PREPARA	TION				SHAFT YE	S	(6.12.1.8) IMPELLER	YES		
PRIMER				AS PER PROJECT PAI	NTING SPEC.	OTHER YE					
FINISH COAT				AS PER PROJECT PAI	NTING SPEC.	CASTING REPAIR WELD PROCEDURE	APPR REQD		YES		
BASEPLATE:						INSPECTION REQUIRED FOR CONNEC	TION WELDS (6.12.3.4	4.d)			
BASEPLATE S	URFACE PRE	PARATION				LIQUID PENETRANT	YES	MAG PARTICLE			
PRIMER:				AS PER PROJECT PAI	NTING SPEC.	ULTRASONIC		RADIOGRAPHY	YES		
FINISH COAT				AS PER PROJECT PAI	NTING SPEC.	INSPECTION REQUIRED FOR CASTING	is	-			
DETAILS OF I	JFTING DEVI	CES				LIQUID PENETRANT	YES	MAG PARTICLE	YES		
SHIPMENT: ((8.4.1)			EXP	ORT	ULTRASONIC	YES	RADIOGRAPHY			
EXPORT BOX	ING REQUIRE	ED			YES	HARDNESS TEST REQUIRED (8.2.2.7)		-			
OUTDOOR ST	ORAGE MOR	E THAN 6 MO	NTHS	•	YES	ADDNL SUBSURFACE EXAMINATION	(6.12.1.5) (8.2.1.3)				
SPARE ROTO	OR ASSEMBL	Y PACKAGEI	FOR:					FOR			
ROTOR STOR	AGE ORIENTA	ATION (9.2.8.2))					METHOD			
SHIPPING & S	TORAGE CON	NTAINER FOR	VERT STORAGE	(9.2.8.3)							
N ₂ PURGE (9.2	2.8.4)					PMI TESTING REQUIRED (8.2.2.8)					
SPARE PART	S					COMPONENTS TO	BE TESTED				
START-UP					YES	RESIDUAL UNBALANCE TEST (J.4.1.2)					
NORMAL MA	INTENANCE				YES	NOTIFICATION OF SUCCESSFUL SHOP	ı		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 HYDROSTATIC TEST OF BOWLS & COI	LUMNI (0.2.12.2)		WIT		
						PERFORMANCE TEST	LUMIN (9.5.15.2)		WIT		
		OTH	ED DIIDCHAS	ER REQUIREMENT	8	TEST IN COMPLIANCE WITH (8.3.3.2)			NFPA 20		
COORDIN	IATION MEET	TING REQUIRE		EK KEQUIKEMENT	YES	TEST DATA POINTS TO (8.3.3.3)			NFPA 20		
		E PRESSURE T			TES .	TEST TOLERANCES TO (8.3.3.4)			TABLE 16		
WAXIWO	W DISCHARO	E I KESSUKE I	TO INCLUDE			NPSH (8.3.4.3.1) (8.3.4.3.4)		NOTE 6	WIT		
		OPER ATION	TO TRIP SPEED			NPSH-1ST STG ONLY (8.3.4.3.2)		NOIEU			
	MAY DI		AND/OR NO OF	STACES	YES	NPSH TESTING TO HI 1.6 OR ISO 9906 (8 3 1 3 3)				
CONNEC		A. IMFELLERS APPROVAL (9		STAGES	YES	TEST NPSHA LIMITED TO 110% SITE N					
		S / REPORT (6.9			NO	RETEST ON SEAL LEAKAGE (8.3.3.2.d)	FSHA (6.3.3.0)		OBSERVE		
	S REPORTS	5 / KEFOKI (0.:	9.2.10)		YES		D ADI (9 2 2 7 h)		OBSERVE		
		ODTIONAL T	TECTS (10.2.5)		TES	RETEST REQUIRED AFTER FINAL HEA	D ADJ (8.3.3.7.0)		WIT		
		R OPTIONAL T		NY (0.2.1.1)		COMPLETE UNIT TEST (8.3.4.4.1)			WIT		
ADDITIO	NAL DATA KE	EQUIRING 20 1	YEARS RETENTIO	JN (8.2.1.1)	YES	SOUND LEVEL TEST (8.3.4.5) CLEANLINESS PRIOR TO FINAL ASSEM	(DI V (9 2 2 6)				
IATEDAI	ANAI VCIC D	EOUBED (0.1	2.4) (0.2.4.1.2)		<u>.</u>	LOCATION OF CLEANLINESS INSPECT			OBSERVE		
			.3.4) (9.2.4.1.3)		NO		ION				
		QUIRED (9.3.9.			WDC	NOZZLE LOAD TEST	DAD CLIDEACEC				
		OTOR (6.9.4.4)			YES	CHECK FOR CO-PLANAR MOUNTING					
		N PROPOSAL (· · · · · ·	(6022)	YES	MECHANICAL RUN TEST UNTIL OIL T					
			ONSE ANALYSIS	(6.9.2.3)	NO NO	4 HR. MECH RUN AFTER OIL TEMP ST.	ABLE (8.3.4.2.1)		WIT		
		AL RESPONSE			NO	4 HR. MECH RUN TEST (8.3.4.2.2)					
		`	UIRED (6.10.1.6)			BRG HSG RESONANCE TEST (8.3.4.7)					
			463-1 (7.2.13.e)			STRUCTURAL RESONANCE TEST (9.3.9					
			RAWING (10.3.2.3)		 	REMOVE / INSPECT HYDRODYNAMIC BEARINGS AFTER TEST					
			LD UNIONS (7.5.2	.8)	l	(9.2.7.5)	`				
		BRATION SPE	CTRA (6.9.3.3)			AUXILIARY EQUIPMENT TEST (8.3.4.6					
	FION BOLTIN					EQUIPMENT TO BE INCLUDED IN AUX					
		LTS PROHIBIT				LOCATION OF AUXILIARY EQUIPMENT TEST IMPACT TEST DED EN 12445					
			RCDS (8.2.1.1.c)			IMPACT TEST PER EN 13445 DED ASME SECTION VIII					
		Γ PROCEDURE			YES	PER ASME SECTION VIII					
SUBMIT INSPECTION CHECK LIST (8.1.5) NOTE 2 YES REMOVE CASING AFTER TEST											





احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

MECHANICAL DATA SHEETS FOR FIRE WATER MAIN PUMPS-ELECTRICAL MOTOR DRIVEN شماره پیمان: شماره صفحه: ۹ از ۹ پروژه صادر کننده تسهيلات نوع مدرک .04-.44-9146 GCS PEDCO 120 ME DT 0029 D04 BK CENTRIFUGAL PUMP DATA SHEET (SI UNIT) - P-2301 A (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 13) THESE REFERENCES MUST BE LISTED BY THE PURCHASER. (DEFAULT TO TABLE 11 IF NO PURCHASER PREFERENCE IS STATED) ALTERNATE WELDING CODES AND STANDARDS DEFAULT PER TABLE 11 WELDING REQUIREMENT (APPLICABLE CODE OR STANDARD) DEFAULT PER TABLE 11 WELDER/OPERATOR QUALIFICATION WELDING PROCEDURE QUALIFICATION DEFAULT PER TABLE 11 $NON-PRESSURE\ RETAINING\ STRUCTURAL\ WELDING\ SUCH\ AS\ BASEPLATES\ OR\ SUPPORTS$ **DEFAULT PER TABLE 11** DEFAULT PER TABLE 11 MAGNETIC PARTICLE OR LIQUID PENETRANT EXAMINATION OF PLATE EDGES DEFAULT PER TABLE 11 POSTWELD HEAT TREATMENT POSTWELD HEAT TREATMENT OF CASING FABRICATION WELDS DEFAULT PER TABLE 11 MATERIAL INSPECTION THESE REFERENCES MUST BE LISTED BY THE PURCHASER DEFAULT TO TABLE 14 YES ALTERNATIVE MATERIAL INSPECTIONS AND ACCEPTANCE CRITERIA (SEE TABLE 15) (8.2.2.5) TYPE OF INSPECTION FOR FABRICATIONS FOR CASTINGS RADIOGRAPHY ULTRASONIC INSPECTION MAGNETIC PARTICLE INSPECTION LIQUID PENETRANT INSPECTION VISUAL INSPECTION (all surfaces) REMARKS: