

053-073-9184

نگهداشت و افزایش تولید میدان نفتی بینک سطحالارض



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

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

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

 BK
 GCS
 PEDCO
 120
 ME
 DT
 0029
 D05

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

D05	FEB. 2023	IFA	H. Adineh	M. Fakharian	M. Mehrshad	
D04	DEC. 2022	IFA	H. Adineh	M. Fakharian	M. Mehrshad	
D03	OCT. 2022	IFA	H. Adineh	M. Fakharian	M. Mehrshad	
D02	AUG. 2022	IFA	H. Adineh	M. Fakharian	M. Mehrshad	
D01	MAY. 2022	IFA	H. Adineh	M. Fakharian	M. Mehrshad	
D00	FEB. 2022	IFC	H. Adineh	M. Fakharian	M. Mehrshad	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval
Class: 1	CL	IENT 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



053-073-9184

نگهداشت و افزایش تولید میدان نفتی بینک سطحالارض

HIRGAN 7

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

ماره پیمان:

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

 نسخه
 سربال
 نوع مدر ک
 رشته
 نسهلات
 صادر کننده
 ببته کاری
 پروژه

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شماره صفحه: 2 از 9

REVISION RECORD SHEET

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2	Х	Х	Х	Х	Х	Х	
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053-073-9184

نگهداشت و افزایش تولید میدان نفتی بینک سطحالارض

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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

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

 شماره پیمان:
 شمار پیمان:

 نسخه
 سریال
 نوع مدر ک
 رشته
 تسهیلات
 صادر کننده
 بسته کاری
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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.
- 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 / 50 °c , Maximum temperature of metal surface exposed to the sun (°C): 85 °c .



- 25 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)



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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

مثاره پیمان:

| MECHANICAL DATA SHEETS FOR FIRE WATER MAIN PUMPS-ELECTRICAL MOTOR DRIVEN
| مثاره پیمان:
| O53-073-9184 | | (شته تبهادت صادرکتنده بنته کاری پروژه الله | BK GCS PEDCO 120 ME DT 0029 D05

شماره صفحه: 4 از 9

		RIFUGAL PUMP DATA SHEET (SI UNIT) - P-2301 A (Sheet I 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 op	tions
	contain calculated valu	ues based on input data; do not change.
	identify a cross referen	nced paragraph in the document note, and may also contain a drop down list
Delete these notes of COMME	NTS:	

PUMP MOTOR GEAR TURBINE

		DATA SHEETS			
ITEM No.	ATT	ITEM No.	ATT	ITEM No.	ATT
P-2301 A	YES				





احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیمان:

MECHANICAL DATA SHEETS FOR FIRE WATER MAIN PUMPS-ELECTRICAL MOTOR DRIVEN 053-073-9184

		BIX GC			120	I I		
			CENTRIF	UGAL PUN	MP DATA SHE	ET (SI UNIT) - P-2301 A (Sheet 2 of 6)	1	
APPLICABLE TO: PROPOS	SAL				APPLIC	CABLE NTL/INTNTL STANDARD:	NFPA20 (2019) & IPS-M-PM-12	25, IPS-E-El-100 (1)
FOR NISOC					UNIT			
SITE BINAK Gas Compressor	Station				SERVIO	CE Fire Water Main Pumps -	- Electrical Motor Driven	
NO. REQ 1	PUMP SIZ	ĽΕ			TYPE		No. STAGES	
MANUFACTURER					MODE	BB1 (V.T.C)	SERIAL NO.	
					LIQUID CHAI	RACTERISTICS		
	Units	Maximum	Minimum	Note		SERVICE :	INTERMI	TTENT
LIQUID TYPE OR NAME :		Water		Max &	z min	• IF INTERMITTENT NO. OF STARTS :		
VAPOR PRESSURE :	bara	0.0087	0.1219	values	refer	PUMPS OPERATE IN:		
DENSITY:	kg/m³	99	07	only to	the	CORROSION DUE TO: (6.12.1.9)		
SPECIFIC HEAT:	kj/kgC	4.1	.86	proper	ty	EROSION DUE TO : (6.12.1.9)		
VISCOSITY :	cР	1	I	listed		H2S CONCENTRATION (ppm): (6.12.1.12))	N.A.
		TING CONDITIONS (6.1				CHLORIDE CONCENTRATION (ppm):		
	Units	Maximum	Rated	Normal	Min	PARTICULATE SIZE (DIA IN MICRONS)		
NPSH _A Datum:			C.L. Impeller	•		PARTICULATE CONCENTRATION (PPM))	
PUMPING TEMPERATURE :	°C	50	33		5			
FLOW:	m³/hr		454.2					
DISCHARGE PRESSURE :(6.3.2)	barg		10.4					
SUCTION PRESSURE :	barg	0.83	0.81		0.08			
DIFFERENTIAL PRESSURE :	bar		10.3		1			
DIFFERENTIAL HEAD :	m		105.0					
NPSH _A :	m		8.8					
HYDRAULIC POWER: (Note 23)	KW		129.50					
					SITE AND U	FILITY DATA		
LOCATION:						COOLING WATER:	1 1	
	NHEATED		R SUNSHADE				RETURN DESIGN	
MOUNTED AT:		• TROPICALISAT	•			TEMP		
ELECTRIC AREA CLASSIFICATION		.1.22) ZONE	SAFI	<u> </u>		PRESS.		
GROUP		TEMP CLASS				SOURCE		
SITE DATA:						COOLING WATER CHLORIDE CON	_	
ELEVATION (MSL) : 12.5		BAROMETER :		990.77	mBar	INSTRUMENT AIR :	kg MIN	kg —
RANGE OF DESIGN TEMPS:MIN / MAX	Х	5	85 °C	→ \	_	STEAM	, , , , , , , , , , , , , , , , , , ,	
RELATIVE HUMIDITY: MIN / MAX		0	100 %	/ D05 \	(_C)	TTM	DRIVERS HEATING	
UNUSUAL CONDITIONS:		<u>NA</u>				TEMP		
UTILITY CONDITIONS : ELECTRICITY : DRIVERS	HEATING	CONTROL	SHUTDOWN			PRESS.		
VOLTAGE 3300	HEATING	CONTROL	SHUIDOWN					
PHASE 3								
HERTZ 50								
HERIZ 30		PERFORMANCE					DRIVER (7.1.5)	
PROPOSAL CURVE NO.		RPM				Driver Type	INDUCTION MOTO	OR.
As Tested Curve No.						GEAR		NO NO
	MAX.	MIN.		mm		VARIABLE SPEED REQUIRED		NO
RATED POWER Kw		CIENCY		(%)		SOURCE OF VARIABLE SPEED	<u></u>	
RATED CURVE BEP FLOW (at rated imp		=		m³/hr		OTHER		
	kJ/Nm³	-		m³/hr		MANUFACTURER	-	
PREFERRED OPERATING REGION (6.1		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	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	D.O.L/Open Discharge Valve	
MAX. ALLOW. SOUND PRESS. LEVEL	REQD (6.1.14)	-	85	(dBA)	@ 1 m	SEE DRIVER DATA SHEET		Note 1
EST MAX SOUND PRESS. LEVEL		-		(dBA)		Max Voltage Variation	±10%	
MAX. SOUND POWER LEVEL REQ'D (6.1.14)	-				Max Frequency Variation	±5%	
EST MAX SOUND POWER LEVEL		-				Max Voltage and Frequency Variation together		
						RTD / Type	YES / PT100 (According to IPS-M-EL-1:	32)
						1		





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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									
053-073-9184	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه			
033-073-7104	BK	GCS	PEDCO	120	ME	DT	0029	D05			

شماره صفحه: 6 از 9

				BK	GCS	PEDCO	120	ME DT	0029	D05				
						CENTRIFUGA	AL PUMP DATA SHI	EET (SI UNIT) - P-2301	A (Sheet 3 of 6)					
							CONST	RUCTION						
API PUMP TYPE:	В	B1	[1	Based on API 61	0 definitions	1		CASING MOUNTING:						_
								CASING TYPE:		(6.3.10)				
NOZZLE CONNECTION	ONS:	(6.	5.5)	NOTES 7,12				OH3 BACKPULLOUT LI	FTING DEVICE REQD.	(9.1.2.6)	-			
		Size	Facing	Rating	:	Position		CA	ASE PRESSURE RATIF	NG:				
SUCTION			RF	300		SIDE	1	1	MAWP:	(6.3.5)	By Vendor	barg @		°C
DISCHARGE			RF	300		SIDE		1	HYDROTEST:		1.5*MAWP	barg @		°C
PRESSURE CASING A	UX. CON	NECTION	NS: (6.4.3.2	2)			_							
	No.	Size	Type	Facing	Rating	g Posn.]	HYDROTEST O	OH PUMP AS ASSEMB	LY			YES	
BAL/LEAK OFF							1	SUCT'N PRESS.	REGIONS DESIGNED	FOR MAWP		-	YES	
DRAIN								ROTATION:		(VIEWED FROM CO	UPLING END)	-		-
VENT									IMPELLERS INDIVIDU	JALLY SECURED :		-		-
PRESSURE GAGE							1		BOLT OH 3/4/5 PUMP T	O PAD / FOUNDATION	:	-		-
TEMP GAGE							-		PROVIDE SOLEPLATE			-		-
WARM-UP LINE							-	ROTOR:				-		-
				<u> </u>	<u> </u>				ILITY INDEX (SFI) (9.1.	1.3)				
Drain Valve Supplie	d Rv					SUPPLIER			ed Wet (Multi stage pump			=		
DRAINS MANIFOL						YES	_		SALANCE TO ISO 1940			=	NO	
VENT Valve Suppli						SUPPLIER			MITED MOVEMENT IN					
VENTS MANIFOLI						YES	_	COUPLING:(7.2		(7.2.13.f)	NOTE 1			
THREAD. CONS FO		CEDVICE	8 - 50°C (6.4.2.2)		NO	=	MANUFACTURI		(7.2.13.1)	NOTE	,		
SPECIAL FITTING							=		EK		=			-
				1.3)		NO	_	MODEL	CD (100 DD) (1		-			-
CYLINDRICAL TH			(6.4.3.8)			NO	_	RATING (POWE						-
GUSSET SUPPORT						YES	If Needed	SPACER LENGT						mm
MACHINED AND	STUDDED	CONNEC	TIONS (6.	4.3.12)		NO	_	SERVICE FACTO	OR				Min 1.5	-
VS 6 DRAIN						N/A	=	RIGID				ē	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 T					-	5	°C							
REDUCED-HARDNESS	S MATERIA	ALS REQT	0 (6.12.1.1	2.1)	_				COMPLIANCE WITH (7.		-	API 610 con	npliant	
Applicable Hardness Star	ndard (6.12.	.1.12.3)						COUPLING GUA	ARD STANDARD PER (7.2.13.a)		ISO 1	14120	
BARREL:								Window on Coup	ling Guard					
CASE:														
DIFFUSERS										BASEPLATE				
IMPELLER:								API BASEPLATI	E NUMBER :					
IMPELLER WEAR RIN	G:							BASEPLATE CO	ONSTRUCTION (7.3.14)					
CASE WEAR RING:								BASEPLATE DR	RAINAGE (7.3.1)		Enti	re Baseplate Di	rain Pan	
SHAFT:								MOUNTING:						
Bowl (if VS-type)								NON-GROUT CO	ONSTRUCTION: (7.3.1)	3)				
Inspection Class (Note 2))							VERTICAL LEV	ELING SCREWS :			REQUIRE	D	
		BEARIN	NGS ANI	LUBRICATI	ON (6.10.1	.1) (VTA)		LONGITUDINAI	L DRIVER POSITIONIN	IG SCREWS :		REQUIRE	ED	
BEARING (TYPE / NUM	MBER):	(6.1	11.4)					SUPPLIED WITH	H:	GROUT AND V	ENT HOLES		YI	ES
RADIAL			/							DRAIN CONNE	ECTION		YI	ES
THRUST		_	/					MOUNTING PAI	DS SIZED FOR BASEPI	LATE LEVELING (7.3.5)			YI	ES
REVIEW AND APPROV	VE THRUS	T BEARIN	IG SIZE : (9.2.5.2.4)				MOUNTING PAI	DS TO BE MACHINED	(7.3.6)			YI	ES
								PROVIDE SPAC	ER PLATE UNDER AL	L EQUIPMENT FEET			YI	ES
LUBRICATION:	(6.10.2	2.2) (6.11.3) (9.2.6)				=	OTHER						
PRESSURE LUBE :	SYSTEM T	O ISO 104	38-		(9.2.6.5	5)	=							
		ISO 104	38 DATA	SHEETS ATTAC	- CHED		=							-
Pressurized Lube Oi	l System mt	td on pump	baseplate					REMARKS:						
Location of Pressuriz				baseplate:			_							
				-										-
INTERCONNECTI	NG PIPING	PROVIDE	ED BY			Supplier								-
OIL VISC. ISO GRA				VG		••	=							-
CONSTANT LEVE				**			=	<u> </u>						•
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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیمان:		MECHANICAL	DATA SHEE	TS FOR FIRE	WATER MAI	N PUMPS-ELI	ECTRICAL MOTOR I	DRIVEN	
053-073-9184	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه	از 9
033-073-7104	BK	GCS	PEDCO	120	ME	DT	0029	D05	

شماره صفحه: 7 از 9 نسخه سربال نوع مدرک رشته تسهیلات صادرکننده ب PEDCO 120 ME DT 0029 D05

CENTRIFUGAL PUMP DATA SHEET (SI UNIT) - P-2301 A (Sheet 4 of 6)

INSTRUMENTATION	SEAL SUPPORT SYSTEM MOUNTING
SEE ATTACHED API-670 DATA SHEET	SEAL SUPPORT SYSTEM MOUNTED ON PUMP BASEPLATE
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	
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 & APPURTENANCES
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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NISOC

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیمان∶		MECHANICAI	DATA SHEE	TS FOR FIRE	WATER MAII	N PUMPS-ELE	CTRICAL MOTOR D	RIVEN	
053-073-9184	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه	شماره صفحه: 8 از 9
033-073-7104	BK	GCS	PEDCO	120	ME	DT	0029	D05	

TRANSPORT					(CENTRIFUGAL P	PUMP DATA SHEET (SI UNIT) - P-2301 A (Sheet 5 of 6)			
PRINTENDE				RFACE PREPA	RATION AND PAINT				TEST		
RECENT PROPERTY			ARD					SHOP INSPECTION (8.1.1)			Yes
TASK NET STREET HER AL SLUSS SAME	OTHER (SEE I	BELOW)						PERFORMANCE CURVE			
MATERIAL PRINTENDE MATERIA	SPECIFICATION	ON NO.	BK-GNRAL-P	EDCO-000-PI-SP-	-0006, "Specification			& DATA APPROVAL PRIOR TO SHIPME	NT.		YES
MINISTRATE MATERIORIE TAUTHOUSESTED MORE NOTE MATERIORIE TAUTHOUSESTED MORE NOTE MATERIORIE TAUTHOUSESTED MORE NOTE MORE N			for Painting"					TEST WITH SUBSTITUTE SEAL (8.3.3.2.b	p)		
Section Sect	PUMP:							MATERIAL CERTIFICATION REQUIRED)	CASING	YES
MARTEA TREE	PUMP SURFA	CE PREPARAT	TION					SHAFT YI	ES	(6.12.1.8) IMPELLER	YES
ROUTH TATE 1000 1	PRIMER				AS PER PROJECT PAI	INTING SPEC.		OTHER YF	ES Casing and impell	er Wear ring	
MOUNT NOTIFY PROTECT	FINISH COAT				AS PER PROJECT PAI	INTING SPEC.		CASTING REPAIR WELD PROCEDURE A	APPR REQD		YES
NEW STATE	BASEPLATE:							INSPECTION REQUIRED FOR CONNECT	ΠΟΝ WELDS (6.12.3.4.d)	
Septemble	BASEPLATE S	SURFACE PREI	PARATION					LIQUID PENETRANT	YES	MAG PARTICLE	
	PRIMER:				AS PER PROJECT PAI	INTING SPEC.		ULTRASONIC	·	RADIOGRAPHY	YES
SIDNING SALE	FINISH COAT				AS PER PROJECT PAI	INTING SPEC.		INSPECTION REQUIRED FOR CASTING	s		
MADDINGS REQUIRED VIS MADDINGS TEST REQUIRED 1.27) MADDINGS TEST REQUIRED 1.28) MADDINGS TEST REQUIRED 1.27) MADDINGS TEST REQUIRED 1.28) MADDINGS TEST REQUIRED 1.28) MADDINGS TEST REQUIRED 1.28) MADDINGS TEST REQUIRED 1.29) MADINGS TEST REQUIRED 1.29) MADDINGS TEST REQUIRED 1.29) MADING	DETAILS OF I	LIFTING DEVI	CES					LIQUID PENETRANT	YES	MAG PARTICLE	YES
### ADDN. STRUKT ASSTMULT YEAK-AGE FOR ### ADDN. STRUKTAGE EAMNATION (A12.15) (A12.15)	SHIPMENT: (8.4.1)			EXP	PORT		ULTRASONIC	YES	RADIOGRAPHY	
### ROTOR ANSWARD LYPACK, GED TOR. ### ADDRESS AND ANSWARD LYPACK, GED TOR. #	EXPORT BOX	ING REQUIRE	D			YES		HARDNESS TEST REQUIRED (8.2.2.7)		=	
METHORIC GREENTATION (0.2.5.2)	OUTDOOR ST	ORAGE MORE	THAN 6 MON	THS		YES		ADDNL SUBSURFACE EXAMINATION ((6.12.1.5) (8.2.1.3)		
PARTITION OF PICTURE FOR VERY STORAGE (22.3) PARTITION OF PICTURE FOR VERY STORAGE (22.5) PARTITION OF PICTURE FO	SPARE ROTO	OR ASSEMBLY	Y PACKAGED	FOR:						FOR	
Post TESTEN REQUIRED (0.2.16) Post TESTEN REQUIRED (0.2.16) Post TESTEN REGISTATION Post TESTED Post TESTED (0.1.15) Post TESTED Post TESTED (0.1.15) Post TESTED Post TESTED (0.1.15) Post TESTED Post TESTED (0.1.16) Post TESTED	ROTOR STOR.	AGE ORIENTA	TION (9.2.8.2)							METHOD	
PART	SHIPPING & S	TORAGE CON	TAINER FOR V	ERT STORAGE (9	0.2.8.3)					_	
NORMALANTEMANCE	N ₂ PURGE (9.2	2.8.4)						PMI TESTING REQUIRED (8.2.2.8)			
NORMAL MANITEMANCE	SPARE PART	s						COMPONENTS TO	O BE TESTED		
TIEMN	START-UP					YES		RESIDUAL UNBALANCE TEST (J.4.1.2)			
BASE DRIVER DRIVER DRIVER GEAR BASE DOTAL	NORMAL MA	INTENANCE				YES		NOTIFICATION OF SUCCESSFUL SHOP			YES
IF TO ROSTATIC STATE OF BOWLS & COLLINN (9.3.13.2) WIT								PERFORMANCE TEST (8.1.1.c) (8.3.3.5)			YES
INDROSTATIC TIST OF BOWES & COLUMN (9.3.13.2)	ITEM No	PUMP	DRIVER	GEAR	BASE	TO	OTAL	BASEPLATE TEST (7.3.21)			
PERFORMANCE TEST								HYDROSTATIC			WIT
TEST IN COMPLIANCE WITH (8,33.2)								HYDROSTATIC TEST OF BOWLS & COL	UMN (9.3.13.2)		
TEST DATA POINTS TO (8.3.3.3) NPPA 28								PERFORMANCE TEST			WIT
TEST DATA POINTS TO (8.3.3.3) NPPA 28			OTI	HER PURCHAS	ER REQUIREMENTS	S		TEST IN COMPLIANCE WITH (8.3.3.2)			NFPA 20
MAXIMUM DISCHARGE PRESSURE TO INCLUDE	COORDIN	NATION MEET									NFPA 20
NSH (8.34.31) (8.34.32) NOTE 6											TABLE 16
NPSH-IST STG ONLY (8.3.4.3.2) MAX DAL IMPELLERS ANDOR NO OF STAGES YES NPSH-IST STG ONLY (8.2.4.3.3)										NOTE 6	
MAX DIA. IMPELLERS ANDOR NO OF STAGES YES CONNECTION DESIGN APPROVAL (9.2.14) YES TORSIONAL ANALYSIS REPORT (6.9.2.10) NO RETEST OR SEAL LEAKAGE (8.33.2.d) OUSSERVE RETEST REQUIRED AFTER FINAL HEAD ADJ (8.33.7.b) COMPLETE UNIT TEST (8.34.4.1) WIT ADDITIONAL DATA REQUIRING 29 YEARS RETENTION (8.2.1.1) YES LATERAL ANALYSIS REQUIRED (9.13.4) (9.2.4.1.3) NO LOCATION OF CLEANLINESS PRIOR TO FINAL ASSEMBLY (8.22.6) OBSERVE LATERAL ANALYSIS REQUIRED (9.3.9.2) LOCATION OF CLEANLINESS INSPECTION NOZIZE LOAD TEST DYSAMIC BALANCE BOTOR (6.9.4.4) YES CHECK FOR CO-PLANAR MOUNTING PAD SURFACES MECHANICAL RUN TEST UNTIL OIL TEMP STABLE WIT TRANSIENT TORSIONAL RESPONSE NO 4 HR. MECH RUN AFTER (6.1 LEMP STABLE (8.3.4.2.1) WIT TRANSIENT TORSIONAL RESPONSE NO 4 HR. MECH RUN TEST (8.3.4.2) BEBARING LIFE CALCULATIONS REQUIRED (6.10.1.6) IGNITION HAZARD ASSIMT TO EN 1346-1 (7.2.13.6) CONNECTION BOLITING (7.5.1.7) CONNECTION BOLITING (7.5.1.7) FLANGES RQD IN PLACE OF SKT WELD UNIONS (15.2.8) VENDOR TO KEEP REPAIR AND HT RCDS (8.2.1.1.c) VENDOR TO KEEP REPAIR AND HT RCDS (8.2.1.1.c) YES NO ACCURATE THE STREAM MOUNTING PAD SURFACES BERNOYE / INSPECT HYDRODYNAMIC BEARINGS AFTER TEST U. (9.2.7.5) AUXILLARY EQUIPMENT TEST (8.3.4.6) EQUIPMENT TO BE INCLUDED IN AUXILLARY TESTS CABMILM PLATED BOLIS REQUIRED (5.1.1.c) VENDOR TO KEEP REPAIR AND HT RCDS (8.2.1.1.c) YES PROCEDURES REPORT TO STREAM HEAD ADJ (8.3.2.1.1) YES TORSON TO STREAM HEAD ADJ (8.3.2.2.1.1.1) WIT TORSON TO STREAM HEAD ADJ (8.3.2.2.1.1.1) NO AUXILLARY EQUIPMENT TEST (8.3.4.6) EQUIPMENT TO BE INCLUDED IN AUXILLARY TESTS LOCATION OF AUXILLARY EQUIPMENT TEST U. COATION OF AUXILLARY EQUIPMENT TEST U. COATION OF AUXILLARY EQUIPMENT TEST VENDOR TO KEEP REPAIR AND HT RCDS (8.2.1.1.1.1) YES PROVE THE STREAM HEAD ADJ (8.3.2.1.1.1.1) YES TO STREAM HEAD ADJ (8.3.2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1			OPERATION	TO TRIP SPEED							
TONNECTION DESIGN APPROVAL (0.21.4)		MAX D			STAGES	YES			3.4.3.3)		
TORSIONAL ANALYSIS / REPORT (6.9.2.10) PROGRESS REPORTS OUTLINE OF PROC FOR OPTIONAL TESTS (10.2.5) ADDITIONAL DATA REQUIRING 20 YEARS RETENTION (8.2.1.1) VES LATERAL ANALYSIS REQUIRED (9.1.3.4) (9.24.1.3) MO MODAL ANALYSIS REQUIRED (9.1.3.4) (9.24.1.3) MO MODAL ANALYSIS REQUIRED (9.1.3.4) (9.24.1.3) NO MECHANICAL RUN TEST UNTIL OIL TEMP STABLE UPD STADY STATE DAMPED RESPONSE ANALYSIS (6.9.2.3) NO 4 HR. MECH RUN AFTER OIL TEMP STABLE WIT TRANSIENT TORSIONAL RESPONSE (9.1.1.4) MIT HANGED RUN AFTER (11.1.4) (11.1.	CONNEC										
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CONNECTION BOLTING (7.5.1.7) CADMIUM PLATED BOLTS PROHIBITED VENDOR TO KEEP REPAIR AND HT RCDS (8.2.1.1.c) VENDOR SUBMIT TEST PROCEDURES (8.3.1.1) VENDOR SUBMIT TEST PROCEDURES (8.3.1.1) YES EQUIPMENT TO BE INCLUDED IN AUXILIARY EQUIPMENT TEST LOCATION OF AUXILIARY EQUIPMENT TEST PER EN 13445 PER ASME SECTION VIII)						
CADMIUM PLATED BOLTS PROHIBITED VENDOR TO KEEP REPAIR AND HT RCDS (8.2.1.1.c) VENDOR SUBMIT TEST PROCEDURES (8.3.1.1)				TRA (6.9.3.3)							
VENDOR TO KEEP REPAIR AND HT RCDS (8.2.1.1.c) VENDOR SUBMIT TEST PROCEDURES (8.3.1.1) YES IMPACT TEST PER EN 13445 PER ASME SECTION VIII								•			
VENDOR SUBMIT TEST PROCEDURES (8.3.1.1) YES PER ASME SECTION VIII	CADMIU!	M PLATED BO	LTS PROHIBIT	ED				LOCATION OF AUXILIARY EQUIPMENT	T TEST		
	VENDOR	TO KEEP REP.	AIR AND HT R	CDS (8.2.1.1.c)				IMPACT TEST	PER EN	N 13445	
SUBMIT INSPECTION CHECK LIST (8.1.5) NOTE 2 YES REMOVE CASING AFTER TEST	VENDOR	SUBMIT TEST	PROCEDURES	(8.3.1.1)		YES			PER AS	SME SECTION VIII	
	SUBMIT I	NSPECTION C	HECK 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

 اسریال نوع مدرک رشته نسهیلات صادرکننده بسته کاری پروژه
 پروژه

 BK
 GCS
 PEDCO
 120
 ME
 DT
 0029
 [

شماره صفحه: 9 از 9

	ВК	GCS	PEDCO	120	ME	DT	0029		005			
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 REPAIR	S (NOTE 13)						
THESE REFERENCES MUST BE LISTED BY THE	E PURCHASER. (DE	FAULT TO T	ABLE 11 IF NO PU	JRCHASER PRE	EFERENCE IS ST	ATED)						
ALTERNATE WELDING CODES AND STANDAR												
WELDING REQUIREMENT (APPLICABLE CODE	OR STANDARD)							_	DEF	AULT PER TABLE	11	
WELDER/OPERATOR QUALIFICATION									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									DEF.	AULT PER TABLE	11	
William Control of the Control of th												
MATERIAL INSPECTION THESE REFERENCES MUST BE LISTED BY THE PURCHASER DEFAULT TO TABLE 14 YES												
		ment. ore	T.D.T. 15. (0.0.0.1					DEFAU	LT TO TAB	LE 14	YES	
ALTERNATIVE MATERIAL INSPECTIONS AND	ACCEPTANCE CRI)	1	EOD EADD	ACATIONS.			FOR CASTRICS		
TYPE OF INSPECTION RADIOGRAPHY		ME	THOD			FOR FABR	ICATIONS			FOR CASTINGS		
ULTRASONIC INSPECTION												
MAGNETIC PARTICLE INSPECTION												
LIQUID PENETRANT INSPECTION											-	
VISUAL INSPECTION (all surfaces)												
REMARKS:												
REMARKS.												
												
											-	
											-	
											-	
												
												
												
											-	
												
												