



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

 MECHANICAL DATA SHEETS FOR FIRE WATER PUMPS-DIESEL ENGINE DRIVEN

 نسخه سربال نوع مدرک رشته تسهیلات صادرگننده بسته کاری پروژه
 پروژه

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شماره صفحه: ۱ از ۳

طرح نگهداشت و افزایش تولید ۲۷ مخزن

MECHANICAL DATA SHEETS FOR FIRE WATER MAIN PUMPS-DIESEL ENGINE DRIVEN نگهداشت و افزایش تولید میدان نفتی بینک

D06	JUL. 2023	AFC	H. Adineh	M. Fakharian	A.M.Mohseni	
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	JUL. 2022	IFA	H. Adineh	M. Fakharian	M. Mehrshad	
D01	APR. 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 CLIENT Doc. Number: F0Z-708861

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



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیمان:	MECHANICAL DATA SHEETS FOR FIRE WATER PUMPS-DIESEL ENGINE DRIVEN												
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نگهداشت و افزایش تولید میدان نفتی بینک سطحالارض

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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیما		MECHANICAL DATA SHEETS FOR FIRE WATER PUMPS-DIESEL ENGINE DRIVEN												
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	BK	GCS	PEDCO	120	MF	DT	0030	D06						

شماره صفحه: ۱۳ از ۱۳

GENERAL NOTES

- 1 Vendor shall fill in the blanks and return the completed data sheet along with Diesel data sheet 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 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 The Suction line size is 12" and discharge line is 10".
- 12 Air release valve shall be considered by vendor .
- 13 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.
- 14 Ultrasonic Test shall be performed for forged shaft.
- 15 Couplings shall be dry, flexible and spacer type.
- 16 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'. Alarm and trip shall be specified for diesel control based on NFPA 20.
- 17 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.
- 18 The electrical characteristics of panels shall be specified by vendor such as: The power demand of control panel. The number of control panel.
- 19 Fuel daily tank shall be sized for 8 hours and all instruments such as level transmitter with HH/LL Alarm and etc. are in vendor's scope of supply.
- 20 Diesel engine shall be tested at 110% rated speed in mechanical running test also the maximum speed of diesel engines shall be 2300 RPM.
- 21 pressure sensing lines are in the vendor's scope of supply.
- 22 The sparate power & control panels for main pump diesel engine shall be considered by vendor. Therefore required single line, wiring diagram and etc. shall be specified by vendor.
- 23 Design pressure is 15.4 barg also as per NFPA 20 standard the hydrotest pressure shall not be less than 17.24 barg.
- 24 Estimated BHP at rated capacity is 199.2 kW by considering 65% efficiency.
- 25 The pumps shall furnish not less than 150% of rated capacity at not less than 65% of rated head.





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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

	شماره پیمان:		MECHANICAL DATA SHEETS FOR FIRE WATER PUMPS-DIESEL ENGINE DRIVEN											
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101-111-1112		BK	GCS	PEDCO	120	ME	DT	0030	D06					

شماره صفحه: ۱۶ز ۱۳

		ENTRIFUGAL	PUMP DATA SHEET (SI UNIT) - P-2301 B (Sheet 1 of 6)		
	CLIENT:	Nation	al Iranian South Oil Company (NISOC)		
	PROJECT TITLE:	BINA	C Gas Compressor Station		
	JOB NUMBER:				_
	EQUIPMENT NUMBER:	P-2301	В		_
	EQUIPMENT SERVICE:	Fire W	ater Pumps - Diesel Engine Driven		=
	SERIAL NUMBER:				_
	REQ. / SPEC NO. :	BK-G0	CS-PEDCO-120-ME-SP-0005		_
	PURCH ORDER NO.	·			_
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PUMP MOTOR	P-2301 B Y	ES			
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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیمان: پ پروژه کا۲۰-۰۷۳-۹۱۸٤

 MECHANICAL DATA SHEETS FOR FIRE WATER PUMPS-DIESEL ENGINE DRIVEN

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			US PED	CO		ME DI 0030	D06	
			CENTRI	FUGAL F	PUMP DATA SHE	CET (SI UNIT) - P-2301 B (Sheet 2 of 6)		
APPLICABLE TO: PROPO	CAT				A DDI I	CABLE NTL/INTNTL STANDARD:	NFPA20 (2019) & IPS-1	M PM 125
FOR NISOC	SAL				UNIT	CABLE NIDININIL STANDARD:	NFFA20 (2019) & IFS-P	M-FM-125
SITE BINAK Gas Compressor	Ctation				SERV	ICE Fire Water Pumps - Diesel E	Engine Duiven	
NO. REQ 1	PUMP SE	7E			TYPE	Fire Water Lumps - Dieser E	No. STAGES	
MANUFACTURER	PUMP SI	ZE			MODE	EL BB1 (V.T.C)	SERIAL NO.	
MARTOTACTORER						RACTERISTICS	SERIAL NO.	
	Units	Maximum	Minimum	No		SERVICE :	INTERMI	TTENT
LIQUID TYPE OR NAME :	Ollits	Water	William		ıx & min	• IF INTERMITTENT NO. OF STARTS :	- INTERNI	
VAPOR PRESSURE:	h	0.0087	0.1219		ues refer	PUMPS OPERATE IN:		
DENSITY:	bara		97		y to the	CORROSION DUE TO : (6.12.1.9)		
SPECIFIC HEAT:	kg/m³ kj/kgC		186			EROSION DUE TO: (6.12.1.9)		
VISCOSITY :	cP		1		perty	H2S CONCENTRATION (ppm) : (6.12.1.12)		N.A.
VIDCOSITT.		ING CONDITIONS (6.		list	eu	CHLORIDE CONCENTRATION (ppm):		
	Units	Maximum	Rated	Norma	l Min	PARTICULATE SIZE (DIA IN MICRONS)		
NPSH _A Datum:	Onts	Maximum	C.L. Impell		141111	PARTICULATE CONCENTRATION (PPM)		-
PUMPING TEMPERATURE :	°C	50	CILI IIIpcii		5	Tractice 2112 content traction (1111)		-
FLOW:	m³/hr	50	454.20			_		
DISCHARGE PRESSURE :(6.3.2)	barg		10.4			-		
SUCTION PRESSURE:	barg	0.83	0.81		0.08	_		
DIFFERENTIAL PRESSURE :	bar	0.00	10.3		0.00	+		
DIFFERENTIAL HEAD :	m		105.0			-		
NPSH _A :	m		8.8			_		
HYDRAULIC POWER:	KW		129.50			_		
					SITE AND I	TILITY DATA		
LOCATION:					5112.11.12	COOLING WATER:		
	NHEATED	UN	DER ROOF				RETURN DESIGN	
MOUNTED AT:		TROPICALISA				TEMP		
ELECTRIC AREA CLASSIFICATION	N: (6	5.1.22) ZONE	SAI	FIE		PRESS.		
GROUP		TEMP CLASS				SOURCE		
SITE DATA :		-					Chimp Amony	
						COOLING WATER CHLORIDE CONCE	ENTRATION:	
ELEVATION (MSL): 12.5	m	BAROMETER	:	990.77	mBa	COOLING WATER CHLORIDE CONCE INSTRUMENT AIR :		kg
ELEVATION (MSL): 12.5 RANGE OF DESIGN TEMPS:MIN / MA	_	BAROMETER 5		990.77	mBa	COOLING WATER CHLORIDE CONCE INSTRUMENT AIR: STEAM	kg MIN	kg
	_		85	°C		r INSTRUMENT AIR :		kg
RANGE OF DESIGN TEMPS:MIN / MA	_	5	85	°C	mBa 25.6 °C)	r INSTRUMENT AIR :	kg MIN	kg -
RANGE OF DESIGN TEMPS: MIN / MAX RELATIVE HUMIDITY: MIN / MAX	_	5	85	°C		r INSTRUMENT AIR : STEAM	kg MIN	kg
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RANGE OF DESIGN TEMPS:MIN / MA RELATIVE HUMIDITY: MIN / MAX UNUSUAL CONDITIONS: UTILITY CONDITIONS: ELECTRICITY: AUXILIARY VOLTAGE 400 PHASE 3 HERTZ 50	X HEATING	5 0 NA CONTROL	85	°C % (@		TINSTRUMENT AIR : STEAM TEMP PRESS.	DRIVER (7.1.5) (NOTE 22)	
RANGE OF DESIGN TEMPS:MIN / MA RELATIVE HUMIDITY: MIN / MAX UNUSUAL CONDITIONS: UTILITY CONDITIONS: ELECTRICITY: AUXILIARY VOLTAGE 400 PHASE 3 HERTZ 50 PROPOSAL CURVE NO.	X HEATING	5 0 NA CONTROL	85	°C % (@		TINSTRUMENT AIR: STEAM TEMP PRESS. Driver Type	DRIVER (7.1.5) (NOTE 22)	SINE
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RANGE OF DESIGN TEMPS:MIN / MA RELATIVE HUMIDITY: MIN / MAX UNUSUAL CONDITIONS: ELECTRICITY: AUXILIARY VOLTAGE 400 PHASE 3 HERTZ 50 PROPOSAL CURVE NO. AS TESTED CURVE NO. IMPELLER DIA.: RATED RATED POWER KW RATED CURVE BEP FLOW (at rated in MIN FLOW: PREFERRED OPERATING REGION (6. ALLOWABLE OPERATING REGION (6. ALLOWABLE OPERATING REGION MAX HEAD @ RATED IMPELLER MAX POWER @ RATED IMPELLER NPSH3 AT RATED FLOW:	MAX. EFFI peller dia) kJ/Nm³	S NA NA CONTROL PERFORMANCE RPM MIN. ICIENCY	85	"C (@ N mm (%) m³/hr m³/hr m³/hr m kW m		TINSTRUMENT AIR: STEAM TEMP PRESS. Driver Type GEAR VARIABLE SPEED REQUIRED SOURCE OF VARIABLE SPEED OTHER MANUFACTURER NAMEPLATE POWER Nominal RPM RATED LOAD RPM FRAME OR MODEL ORIENTATION	DRIVER (7.1.5) (NOTE 22) DRIVER (7.1.5) (NOTE 22) OBESEL ENC.	SINE NO
RANGE OF DESIGN TEMPS:MIN / MA RELATIVE HUMIDITY: MIN / MAX UNUSUAL CONDITIONS: UTILITY CONDITIONS: ELECTRICITY: AUXILIARY VOLTAGE 400 PHASE 3 HERTZ 50 PROPOSAL CURVE NO. AS TESTED CURVE NO. IMPELLER DIA.: RATED RATED POWER KW RATED CURVE BEP FLOW (at rated in MIN FLOW: PREFERRED OPERATING REGION (6. ALLOWABLE OPERATING REGION (6. ALLOWABLE OPERATING REGION MAX HEAD @ RATED IMPELLER MAX POWER @ RATED IMPELLER NPSH3 AT RATED FLOW: CL PUMP TO U/S BASEPLATE	MAX. EFFI peller dia) kJ/Nm³	S NA NA CONTROL PERFORMANCE RPM MIN. ICIENCY	85	mm (%) m³/hr m³/hr m kW m m		TINSTRUMENT AIR: STEAM TEMP PRESS. Driver Type GEAR VARIABLE SPEED REQUIRED SOURCE OF VARIABLE SPEED OTHER MANUFACTURER NAMEPLATE POWER Nominal RPM RATED LOAD RPM FRAME OR MODEL ORIENTATION	DRIVER (7.1.5) (NOTE 22) DRIVER (7.1.5) (NOTE 22) OBESEL ENC.	SINE NO
RANGE OF DESIGN TEMPS:MIN / MA RELATIVE HUMIDITY: MIN / MAX UNUSUAL CONDITIONS: UTILITY CONDITIONS: ELECTRICITY: AUXILIARY VOLTAGE 400 PHASE 3 HERTZ 50 PROPOSAL CURVE NO. AS TESTED CURVE NO. IMPELLER DIA.: RATED RATED POWER KW RATED CURVE BEP FLOW (at rated in MIN FLOW: PREFERRED OPERATING REGION (6. ALLOWABLE OPERATING REGION (6. ALLOWABLE OPERATING REGION MAX HEAD @ RATED IMPELLER MAX POWER @ RATED IMPELLER NPSH3 AT RATED FLOW: CL PUMP TO U/S BASEPLATE NPSH MARGIN AT RATED FLOW:	MAX. EFFI peller dia) kJ/Nm³	S NA NA CONTROL PERFORMANCE RPM MIN. ICIENCY	85	mm (%) m³/hr m³/hr m kW m m		TINSTRUMENT AIR: STEAM TEMP PRESS. Driver Type GEAR VARIABLE SPEED REQUIRED SOURCE OF VARIABLE SPEED OTHER MANUFACTURER NAMEPLATE POWER Nominal RPM RATED LOAD RPM FRAME OR MODEL ORIENTATION LUBE	DRIVER (7.1.5) (NOTE 22) DESELENCE @Site Condition HORIZONTAL	SINE NO
RANGE OF DESIGN TEMPS:MIN / MA RELATIVE HUMIDITY: MIN / MAX UNUSUAL CONDITIONS: UTILITY CONDITIONS: ELECTRICITY: AUXILIARY VOLTAGE 400 PHASE 3 HERTZ 50 PROPOSAL CURVE NO. AS Tested Curve No. IMPELLER DIA.: RATED RATED POWER KW RATED CURVE BEP FLOW (at rated in: MIN FLOW: PREFERRED OPERATING REGION (6. ALLOWABLE OPERATING REGION (6. ALLOWA	MAX. EFFI peller dia) kJ/Nm³	S NA NA CONTROL PERFORMANCE RPM MIN. ICIENCY	85	mm (%) m³/hr m³/hr m kW m m		TINSTRUMENT AIR: STEAM TEMP PRESS. Driver Type GEAR VARIABLE SPEED REQUIRED SOURCE OF VARIABLE SPEED OTHER MANUFACTURER NAMEPLATE POWER Nominal RPM RATED LOAD RPM FRAME OR MODEL ORIENTATION LUBE RADIAL	DRIVER (7.1.5) (NOTE 22) DESELENCE We Site Condition HORIZONTAL	SINE NO
RANGE OF DESIGN TEMPS:MIN / MA RELATIVE HUMIDITY: MIN / MAX UNUSUAL CONDITIONS: UTILITY CONDITIONS: ELECTRICITY: AUXILIARY VOLTAGE 400 PHASE 3 HERTZ 50 PROPOSAL CURVE NO. AS TESTED CURVE NO. IMPELLER DIA.: RATED RATED POWER KW RATED CURVE BEP FLOW (at rated in MIN FLOW: PREFERRED OPERATING REGION (6. ALLOWABLE OPERATING REGION (6. ALLOWABLE OPERATING REGION (MAX HEAD @ RATED IMPELLER MAX POWER @ RATED IMPELLER NPSH3 AT RATED FLOW: CL PUMP TO U/S BASEPLATE NPSH MARGIN AT RATED FLOW: SPECIFIC SPEED (6.1.9) SUCTION SPECIFIC SPEED LIMIT	MAX. EFFI ppeller dia) kJ/Nm³	S 0 NA CONTROL PERFORMANCE RPM MIN. ICCIENCY to to	85	mm (%) m³/hr m³/hr m kW m m	25.6 °C)	TINSTRUMENT AIR: STEAM TEMP PRESS. Driver Type GEAR VARIABLE SPEED REQUIRED SOURCE OF VARIABLE SPEED OTHER MANUFACTURER NAMEPLATE POWER Nominal RPM RATED LOAD RPM FRAME OR MODEL ORIENTATION LUBE RADIAL THRUST	DRIVER (7.1.5) (NOTE 22) DESELENCE We Site Condition HORIZONTAL	SINE NO
RANGE OF DESIGN TEMPS:MIN / MA RELATIVE HUMIDITY: MIN / MAX UNUSUAL CONDITIONS: UTILITY CONDITIONS: ELECTRICITY: AUXILIARY VOLTAGE 400 PHASE 3 HERTZ 50 PROPOSAL CURVE NO. As Tested Curve No. IMPELLER DIA: RATED RATED POWER KW RATED CURVE BEP FLOW (at rated in MIN FLOW: PREFERRED OPERATING REGION (6. ALLOWABLE OPERATING REGION (6. ALLOWABL	MAX. EFFI ppeller dia) kJ/Nm³	S 0 NA CONTROL PERFORMANCE RPM MIN. ICCIENCY to to	SHUTDOW	mm (%) m³/hr m³/hr m²/hr m²/hr m kW m m	25.6 °C)	TINSTRUMENT AIR: STEAM TEMP PRESS. Driver Type GEAR VARIABLE SPEED REQUIRED SOURCE OF VARIABLE SPEED OTHER MANUFACTURER NAMEPLATE POWER Nominal RPM RATED LOAD RPM FRAME OR MODEL ORIENTATION LUBE RADIAL THRUST STARTING METHOD	DRIVER (7.1.5) (NOTE 22) DESELENCE We Site Condition HORIZONTAL	SINE NO
RANGE OF DESIGN TEMPS:MIN / MA RELATIVE HUMIDITY: MIN / MAX UNUSUAL CONDITIONS: UTILITY CONDITIONS: ELECTRICITY: AUXILIARY VOLTAGE 400 PHASE 3 HERTZ 50 PROPOSAL CURVE NO. As Tested Curve No. IMPELLER DIA: RATED RATED POWER KW RATED CURVE BEP FLOW (at rated in MIN FLOW: PREFERRED OPERATING REGION (6. ALLOWABLE OPERATING REGION (6. ALLOWABLE OPERATING REGION (C. ALLOWABL	MAX. EFFI ppeller dia) L REQD (6.1.14)	S 0 NA CONTROL PERFORMANCE RPM MIN. ICCIENCY to to	SHUTDOW	mm (%) m³/hr m³/hr m²/hr m²/hr m kW m m m	25.6 °C)	TINSTRUMENT AIR: STEAM TEMP PRESS. Driver Type GEAR VARIABLE SPEED REQUIRED SOURCE OF VARIABLE SPEED OTHER MANUFACTURER NAMEPLATE POWER Nominal RPM RATED LOAD RPM FRAME OR MODEL ORIENTATION LUBE RADIAL THRUST STARTING METHOD SEE DRIVER DATA SHEET	DRIVER (7.1.5) (NOTE 22) DESELENCE We Site Condition HORIZONTAL	SINE NO





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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

MISOC									
	شماره پیمان:		MECHA	NICAL DATA	SHEETS FOR	FIRE WATER	R PUMPS-DIE	SEL ENGINE DRIVE	N
٠٥٣-٠٧٣-٩١٨٤		پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه
101-111-1172		BK	GCS	PEDCO	120	ME	DT	0030	D06

شماره صفحه: ۱۳ از ۱۳

						CENTRIFUGA	L PUMP DATA SHE	ET (SI UNIT) - P-2301 B (Sheet 3 of 6)
							CONST	RUCTION
API PUMP TYPE:	, n	B1	п	Based on API 610) d_6:-:4:1		CONST	CASING MOUNTING:
AITTOMITTIE.		В1	Į.	ascu on Al I olo	definitions			CASING TYPE: (6.3.10)
NOZZLE CONNECTIO	NC.	(6	.5.5)	NOTES 7,11				OH3 BACKPULLOUT LIFTING DEVICE REQD. (9.1.2.6)
NOZZEE CONNECTIO		Size	Facing	Rating		Position	1	CASE PRESSURE RATING:
SUCTION		Size	RF	300		SIDE	-	
DISCHARGE			RF	300		SIDE	-	
PRESSURE CASING A	UV CON	NECTION				SIDE]	HYDROTEST: 1.5*MAWP barg @ °C
I RESSURE CASING A	No.	Size		Facing	Rating	Posn.	1	HYDROTEST OH PUMP AS ASSEMBLY YES
BAL./LEAK OFF	No.	Size	Type	racing	Kating	rosn.		SUCT'N PRESS. REGIONS DESIGNED FOR MAWP YES
1				—				
DRAIN				—				<u> </u>
VENT							-	IMPELLERS INDIVIDUALLY SECURED:
PRESSURE GAGE				_			=	BOLT OH 3/4/5 PUMP TO PAD / FOUNDATION:
TEMP GAGE								PROVIDE SOLEPLATE FOR OH 3/4/5 PUMPS POTER
WARM-UP LINE				<u> </u>]	ROTOR: SHAFT FLEXIBILITY INDEX (SFI) (9.1.1.3)
Davie Value Samuliad	D.				erm	PLIER		
Drain Valve Supplied						/ES	_	First Critical Speed Wet (Multi stage pumps only) COMPONENT BALANCE TO ISO 1940 GI.0 NO
DRAINS MANIFOLI						PLIER		COMPONENT BALANCE TO ISO 1940 G1.0 SHRINK FIT -LIMITED MOVEMENT IMPELLERS (9.2.2.3)
VENT Valve Supplied						/ES	-	<u> </u>
VENTS MANIFOLD		. centuce	0 5005		1	NO	-	COUPLING:(7.2.3) (7.2.13.f) NOTE 16 MANUFACTURER
THREAD. CONS FOR							-	
SPECIAL FITTINGS				3)		NO NO	-	MODEL
CYLINDRICAL THE GUSSET SUPPORT			(6.4.5.8)			NO YES	-	RATING (POWER/100 RPM) SPACER LENGTH mm
MACHINED AND S	-		TIONE (6	4.2.12)			If Needed	
	TUDDED	CONNEC	110NS (6.4	1.3.12)		NO	=	SERVICE FACTOR Min 1.5
VS 6 DRAIN	NOT.					N/A YES	-	RIGID NO
DRAIN TO SKID ED	GE		М	ATERIAL (6.12	2.1.1)	YES		COUPLING WITH HYDRAULIC FIT (7.2.10) COUPLING RALANCED TO ISO 1940.1 G63 (7.2.3) YES
APPENDIX H CLASS								COUPLING BALANCED TO ISO 1940-1 G6.3 (7.2.3) COUPLING WITH PROPRIETARY CLAMPING DEVICE (7.2.11)
MIN DESIGN METAL TI	EMD (6.12	(4.1)			NOTES 3	5	°C	COUPLING WITH PROPRIETART CLAWFING DEVICE (7.2.11)
REDUCED-HARDNESS			D (6 12 1 1	2.1)			C	COUPLING IN COMPLIANCE WITH (7.2.4) API 671
Applicable Hardness Stand			J (0.12.1.1.	1)				COUPLING GUARD STANDARD PER (7.2.13.a) ISO 14120
BARREL :	aaru (0.12.	.1.12.3)						Window on Coupling Guard
CASE:			_					
DIFFUSERS			_					BASEPLATE
IMPELLER:			_					API BASEPLATE NUMBER :
IMPELLER WEAR RING	ı -		_					BASEPLATE CONSTRUCTION (7.3.14)
CASE WEAR RING :			_					BASEPLATE DRAINAGE (7.3.1) Entire Baseplate Drain Pan
SHAFT:			_					MOUNTING:
Bowl (if VS-type)			_					NON-GROUT CONSTRUCTION : (7.3.13)
Inspection Class Note 2			_					VERTICAL LEVELING SCREWS: REQUIRED
Inspection Class 1 vice 2		REA	RINGS A	AND LUBRICA	ATION (6.10.1	.1)		LONGITUDINAL DRIVER POSITIONING SCREWS : REQUIRED
BEARING (TYPE / NUM	BER):		11.4)		1110.1 (011011	,		SUPPLIED WITH: • GROUT AND VENT HOLES YES
RADIAL			,					DRAIN CONNECTION YES
THRUST			,					MOUNTING PADS SIZED FOR BASEPLATE LEVELING (7.3.5) YES
REVIEW AND APPROV	E THRUS	T BEARIN	IG SIZE : (9.2.5.2.4)				MOUNTING PADS TO BE MACHINED (7.3.6) YES
				,				PROVIDE SPACER PLATE UNDER ALL EQUIPMENT FEET YES
LUBRICATION :	(6.10.2	2.2) (6.11.3	(9.2.6)				-	OTHER
PRESSURE LUBE S					(9.2.6.5)		-	
				SHEETS ATTAC	=	-	-	
Pressurized Lube Oil	System mt							REMARKS:
Location of Pressurize				baseplate :			-	
INTERCONNECTIN	G PIPING	PROVIDI	ED BY		Su	pplier		
OIL VISC. ISO GRA				VG			-	
CONSTANT LEVEL							-	
ĺ								
ĺ								
								1





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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

111000														
	شماره پیمان:		MECHANICAL DATA SHEETS FOR FIRE WATER PUMPS-DIESEL ENGINE DRIVEN											
٤٨١٩-٩٢٨٤		پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه					
101-111-1172		BK	GCS	PEDCO	120	ME	DT	0030	D06					

شماره صفحه: ۱۷ز ۱۳

	CENTRIFUGAL PUMP DAT							
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 COOLI	NG (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						
NUMBER PER AAIAL BEARING			TINGS					
MANUFACTOR AND GLOVE OF THE STATE OF THE STA			TINGS					
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 & APPURTEN	NANCES					
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)						
-		SOCKET WEED CONNON SEAE GEAND (7.5.2.6)						
-								





NISOC

-04--74-4175

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیمان:

| MECHANICAL DATA SHEETS FOR FIRE WATER PUMPS-DIESEL ENGINE DRIVEN
| نیخه سریال نوع مدرک رشته تمهیلات صادرکننده بیته کاری پروژه
| BK GCS PEDCO 120 ME DT 0030 D06

شماره صفحه: ۱۸ ز ۱۳

CENTRIFUGAL PUMP DATA SHEET (SI UNIT) -P-2301 B (Sheet 5 of 6) SURFACE PREPARATION AND PAINT TEST MANUFACTURER'S STANDARD SHOP INSPECTION (8.1.1) Yes OTHER (SEE BELOW) PERFORMANCE CURVE SPECIFICATION NO. & DATA APPROVAL PRIOR TO SHIPMENT. YES BK-GNRAL-PEDCO-000-PI-SP-0006, "Specification TEST WITH SUBSTITUTE SEAL (8.3.3.2.b) CASING PUMP SURFACE PREPARATION SHAFT (6.12.1.8) IMPELLER YES AS PER PROJECT PAINTING SPEC. YES AS PER PROJECT PAINTING SPEC. FINISH COAT CASTING REPAIR WELD PROCEDURE APPR REOD YES BASEPLATE: INSPECTION REQUIRED FOR CONNECTION WELDS (6.12.3.4.d) BASEPLATE SURFACE PREPARATION LIOUID PENETRANT YES MAG PARTICLE AS PER PROJECT PAINTING SPEC. ULTRASONIC RADIOGRAPHY PRIMER: AS PER PROJECT PAINTING SPEC. INSPECTION REQUIRED FOR CASTINGS FINISH COAT DETAILS OF LIFTING DEVICES LIQUID PENETRANT MAG PARTICLE SHIPMENT: (8.4.1) EXPORT ULTRASONIC YES RADIOGRAPHY EXPORT BOXING REQUIRED HARDNESS TEST REQUIRED (8.2.2.7) OUTDOOR STORAGE MORE THAN 6 MONTHS YES ADDNL SUBSURFACE EXAMINATION (6.12.1.5) (8.2.1.3) SPARE ROTOR ASSEMBLY PACKAGED FOR: ROTOR STORAGE ORIENTATION (9.2.8.2) METHOD SHIPPING & STORAGE CONTAINER FOR VERT STORAGE (9.2.8.3) N₂ PURGE (9.2.8.4) PMI TESTING REQUIRED (8.2.2.8) COMPONENTS TO BE TESTED SPARE PARTS START-UP YES RESIDUAL UNBALANCE TEST (L4.1.2) NORMAL MAINTENANCE YES NOTIFICATION OF SUCCESSFUL SHOP YES PERFORMANCE TEST (8.1.1.c) (8.3.3.5) YES BASE TOTAL BASEPLATE TEST (7.3.21) HYDROSTATIC WIT HYDROSTATIC TEST OF BOWLS & COLUMN (9.3.13.2) PERFORMANCE TEST WIT OTHER PURCHASER REQUIREMENTS TEST IN COMPLIANCE WITH (8.3.3.2) NFPA 20 COORDINATION MEETING REQUIRED (10.1.3) YES TEST DATA POINTS TO (8.3.3.3) NFPA 20 MAXIMUM DISCHARGE PRESSURE TO INCLUDE TEST TOLERANCES TO (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 DIA IMPELLERS AND/OR NO OF STAGES VES NPSH TESTING TO HI 1 6 OR ISO 9906 (8 3 4 3 3) CONNECTION DESIGN APPROVAL (9.2.1.4) YES TEST NPSHA LIMITED TO 110% SITE NPSHA (8.3.3.6) TORSIONAL ANALYSIS / REPORT (6.9.2.10) NO RETEST ON SEAL LEAKAGE (8.3.3.2.d) OBSERVE RETEST REQUIRED AFTER FINAL HEAD ADJ (8.3.3.7.b) YES OUTLINE OF PROC FOR OPTIONAL TESTS (10.2.5) COMPLETE UNIT TEST (8.3.4.4.1) WIT ADDITIONAL DATA REQUIRING 20 YEARS 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 REQUIRED (9.1.3.4) (9.2.4.1.3) LOCATION OF CLEANLINESS INSPECTION NO MODAL ANALYSIS REQUIRED (9.3.9.2) NOZZI E LOAD TEST DYNAMIC BALANCE ROTOR (6.9.4.4) YES CHECK FOR CO-PLANAR MOUNTING PAD SURFACES INSTALLATION LIST IN PROPOSAL (10.2.3.1) YES MECHANICAL RUN TEST UNTIL, OIL TEMP STABLE 4 HR. MECH RUN AFTER OIL TEMP STABLE (8.3.4.2.1) VFD STEADY STATE DAMPED RESPONSE ANALYSIS (6.9.2.3) NO WIT TRANSIENT TORSIONAL RESPONSE NO 4 HR. MECH RUN TEST (8.3.4.2.2) BEARING LIFE CALCULATIONS REQUIRED (6.10.1.6) BRG HSG RESONANCE TEST (8.3.4.7) IGNITION HAZARD ASSMT TO EN 13463-1 (7.2.13.e) STRUCTURAL RESONANCE TEST (9.3.9.2) CASING RETIREMENT THICKNESS DRAWING (10.3.2.3) REMOVE / INSPECT HYDRODYNAMIC BEARINGS AFTER TEST FLANGES ROD IN PLACE OF SKT WELD UNIONS (7.5.2.8) INCLUDE PLOTTED VIBRATION SPECTRA (6.9.3.3) AUXILIARY EQUIPMENT TEST (8.3.4.6) CONNECTION BOLTING (7.5.1.7) EQUIPMENT TO BE INCLUDED IN AUXILIARY TESTS CADMIUM PLATED BOLTS PROHIBITED LOCATION OF AUXILIARY EQUIPMENT TEST VENDOR TO KEEP REPAIR AND HT RCDS (8.2.1.1.c) IMPACT TEST PER EN 13445 VENDOR SUBMIT TEST PROCEDURES (8.3.1.1) PER ASME SECTION VIII YES SUBMIT INSPECTION CHECK LIST (8.1.5) NOTE 2 REMOVE CASING AFTER TEST



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HIRGAN THE

.04-.44-4148

شماره پیمان:

 MECHANICAL DATA SHEETS FOR FIRE WATER PUMPS-DIESEL ENGINE DRIVEN

 نسخه سریال نوع مدر کف رشته تسهیلات صادرکننده بسته کاری پروژه

 BK
 GCS
 PEDCO
 120
 ME
 DT
 0030
 D06

شماره صفحه: ۹ از ۱۳

CENTRIFUGAL PUMP DATA SHEET (SI UNIT) - P-2301 B (Sheet 6 of 6)							
	DDESCUDE VESSE	EL DESIGN CODE REFERENCES					
THESE REFERENCES MUST	FRESSURE VESSE F BE LISTED BY THE MANUFACTURER	L DESIGN CODE REFERENCES					
CASTI	NG FACTORS USED IN DESIGN (TABLE 3)						
	SOURCE OF MATERIAL PROPERTIES		_				
		AND REPAIRS (NOTE 12)					
	E PURCHASER. (DEFAULT TO TABLE 11 IF NO PURCHASER PRE	EFERENCE IS STATED)					
ALTERNATE WELDING CODES AND STANDAL WELDING REQUIREMENT (APPLICABLE CODE							
WELDER/OPERATOR QUALIFICATION	2 OK STANDARD)		DEFAULT PER TABLE 11 DEFAULT PER TABLE 11				
WELDING PROCEDURE QUALIFICATION			DEFAULT PER TABLE 11				
	ELDING SUCH AS BASEPLATES OR SUPPORTS		DEFAULT PER TABLE 11				
MAGNETIC PARTICLE OR LIQUID PENETRAN			DEFAULT PER TABLE 11				
POSTWELD HEAT TREATMENT			DEFAULT PER TABLE 11				
POSTWELD HEAT TREATMENT OF CASING FA	BRICATION WELDS		DEFAULT PER TABLE 11	<u> </u>			
		ERIAL INSPECTION					
THESE REFERENCES MUST BE LISTED BY THE	E PURCHASER ACCEPTANCE CRITERIA (SEE TABLE 15) (8.2.2.5)	Г	DEFAULT TO TABLE 14	YES			
TYPE OF INSPECTION	METHOD	FOR FABRICATIONS	FOR CASTINGS	_			
RADIOGRAPHY	METHOD	FOR FABRICATIONS	FOR CASTINGS	—			
ULTRASONIC INSPECTION	-						
MAGNETIC PARTICLE INSPECTION				_			
LIQUID PENETRANT INSPECTION							
VISUAL INSPECTION (all surfaces)							
REMARKS:							
-							
-							
-							





احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

NIDOC											
	شماره پیمان:		MECHANICAL DATA SHEETS FOR FIRE WATER PUMPS-DIESEL ENGINE DRIVEN								
		پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه		
٤٨١٩-٣٧٠-٣٥٠		BK	GCS	PEDCO	120	ME	DT	0030	D06		

شماره صفحه: ۱۰ از ۱۳

		I	Diesel Engine Data Sheet For Fire V	Vater Pump - P-2301 B (SI UNIT) (1 of 4)		
CED UCE						
SERVICE:	Fire Water Pumps	s - Diesel Engine Driven		MANUFACTURER:		
FOR:	NISOC			MODEL NO:		
SITE:	BINAK Gas Comp	pressor Station		TYPE:		
NO. REQUIRED:	1					
			1		T	
				(Note 1)		REMARKS
OPERATING CONDITION						
DIESEL ENGINE MANUFAC	CTURER					
ISO POWER (ISO 3046)		kW	-			
ISO SPEED		rpm				
SITE CONTINUOUS RATE		kW				
SITE CONTINUOUS RATE	D SPEED	rpm				
OVERLOAD SITE POWER		kW				
OVERLOAD SPEED		rpm				
OVERLOAD DURATION		h				
DIRECTION OF ROTATION	N (FROM CPLG)	CW/CCW				
SPEED RANGE		±% rpm				
IDLE SPEED		rpm				
LOADING TIME		S		_		
PERFORMANCE						
% OF MAX CONT SITE PO	WER					
FUEL SPECIFIC CONSUMP	PTION	g/kWh			-	
TOLERANCE		%	-		-	
SPEED		rpm (NOTE 20)	-		-	
LOAD ACCEPTANCE RATI	ING	% 1 step				
ENGINE DATA						
CYCLE:- 2 STROKE/4 STF	ROKE				4.5	STROKE REQUIRED
NUMBER OF CYLINDERS			-	_	-	
IN-LINE/V FORM			-		-	
BORE/STROKE		mm			-	
CAPACITY		liters			-	
BMEP (RATED)			-			
PISTON SPEED		m/s	-		-	
COOLING SYSTEM: AIR/V	WATER	1117.5				CLOSED SYSTEM
TURBOCHARGER:-	TATER		-		-	(Air fan & Radiator)
SINGLE OR SERIES			-		-	
INTERCOOLER		CA or CW	-		-	
INTERCOOLER		CA OF CW		·	-	
EMISSIONS			-		-	
		a /ls/M/b				IPC-F-CF-860
No _x EMISSION CO EMISSION		g/kWh			-	IPS-E-SF-860
		g/kWh			-	
CO ₂ EMISSION		g/kWh			-	
CT A DTING CACTER					-	
STARTING SYSTEM						
AIR:-			-			
NUMBER OF TANKS						
PRESSURE		Barg / Kpag				
CAPACITY		m ³				
NO. OF STARTS W/OUT I	REFILLING				-	
STARTING SYSTEM						
ELECTRICAL:-						YES
NO. OF BATTERIES						cells with 200 ampere hour capacity charger equal to 100% of power)
TYPE						Nickel - Cadmium
TOTAL CAPACITY		Ah				
STARTING CIRCUIT						
STARTING MOTOR						
			•			





احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

112000											
	شماره پیمان:		MECHANICAL DATA SHEETS FOR FIRE WATER PUMPS-DIESEL ENGINE DRIVEN								
		پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدر ک	سريال	نسخه		
3118-74-400		BK	GCS	PEDCO	120	ME	DT	0030	D06		

شماره صفحه: ۱۱ از ۱۳

		Diesel Engine Data Sheet For Fire Water Pump - P-2301 B (SI UNIT) (2 of 4)	
		Discrenging Data (necessary trace)	
HYDRAULIC:-			
ACCUMULATOR/MOTOR			
NO OF STARTS PER 5 SEC CRANKS			
NO OF ACCUMULATORS			
BARRING SYSTEM		-	
MANUAL/ELEC/HYDRAULIC IF REQ'D			MANUAL
LUBRICATION			
DRY SUMP			
SYSTEM;- PRESSURE	borg / Voo g		
OIL QUANTITY	bar g / Kpa g		
OIL CONSUMPTION	a /loub		
	g/kwh	-	
PUMPS	Main/Aux		
au =u ===			
OIL FILTER:-			
CHANGE OVER WHILE RUNNING	Reqd y/n		
L			
INLET SYSTEM			
FILTER:-			TWO STAGE
TYPE	Wet or dry		
NUMBER			
AIR CUT OFF SYSTEM ("RIG SAVER")			YES
EXHAUST SYSTEM			
ENGINE PIPE OUTLET			YES
SPARK ARRESTOR			YES
SILENCER	dBA @1m		YES - 85
EXPANSION JOINT			YES
EXHAUST MANIFOLD	Cooling		PERSONNEL PROTECTION
FUEL			
MAX STATIC HEAD ABOVE FUEL INLET			
FILTER CLEANABLE WHILE RUNNING	Y/N		YES
SELF CLEANING	Y/N		YES
CHANGEOVER WHILE RUNNING	Y/N		YES
HEAT EMISSIONS			
TO COOLING SYSTEM	kW		
TO AMBIENT	kW		
SITE AND INSTALLATION DATA	***		-
ALTITUDE	m		
AMBIENT TEMPERATURE MIN/MAX	°C		5/50
DESIGN TEMPERATURE	°C		52
HUMIDITY	%		0 / 100
		-	0 / 100
WIND SPEED	km/h		
ATMOSPHERIC AIR (DUST/FUMES)			
CORROSION BY			
			OVERDOOD
LOCATION:- INDOOR/OUTDOOR			OUTDOOR





احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

NIBOC											
	شماره پیمان:		MECHANICAL DATA SHEETS FOR FIRE WATER PUMPS-DIESEL ENGINE DRIVEN								
		پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه		
٤٨١٩-٣٧٠-٩١٨٤		BK	GCS	PEDCO	120	ME	DT	0030	D06		

شماره صفحه: ۱۲ از ۱۳

		Diesel Engine Data Sheet For Fire Water Po	ımp - P-2301 B (SI UNIT) (3 of 4)	
HEATED / UNHEATED		<u> </u>		UNHEATED
UNDER ROOF / PARTIAL SIDES				UNDER ROOF
AREA CLASSIFICATION		-		
STARTING:- LOCAL / REMOTE		-		
STARTING. ESCAL / REMOTE		-		·
AVAILABLE UTILITIES		-		
COOLING WATER:-				FROM FIRE WATER PUMP DISCHARGE
PRESSURE	bar g / kPa g	-		
AVAILABLE PRESSURE DROP	bar / kPa		_	
TEMPERATURE	°C			
TEMPERATURE CHANGE	°C			
INSTRUMENT AIR:-				
PRESSURE	bar g / kPa g			
TEMPERATURE	°C			
DEW POINT	°C			
ELECTRICITY SUPPLY	AC			
	DC			
FUEL CHARACTERISTICS:-				
FUEL OIL CLASSIFICATION	_			
VISCOSITY	cP			
TEMPERATURE	°C			
ODERATING BURATION	b			
OPERATING DURATION	hrs			
IMPURITIES	% weight			
FUEL SYSTEM		-		·
DAY TANK REQUIRED (NOTE 19)		-		YES
TANK SUPPLIED BY				ENGINE SUPPLIER
CAPACITY	hrs	-		AS PER NFPA 20
LOCATION			_	OFF-SKID
WEIGHTS AND DIMENSIONS				
HEAVIEST PART FOR ERECTION				
HEAVIEST PART FOR MAINTENANCE				
WEIGHT OF ENGINE ONLY				
WEIGHT OF SET				
WEIGHT OF CONTROL PANEL				
HEIGHT UNDER HOOK				
DIMENSIONS FOR MAINTENANCE				
PAINTING				
STANDARD/OTHER			_	IPS-E-TP-100
INCRECTION AND TESTING				
INSPECTION AND TESTING				
MANUFACTURER'S STANDARD				IPS-M-PM-290
OTHER				IFS-W-FW-290
INSTRUMENTATION		ALARM	SHUTDOWN	IPS-M-PM-290 SECTION 6.8.
LUBRICATING OIL PRESSURE		- 100 00 011		Remark: P&ID For Fire Water Network
FUEL PRESSURE				(No.BK-GCS-PEDCO-120-SA-PI-0001.)
ENGINE OIL TEMPERATURE				shall be followed.
FUEL TEMPERATURE				
OVER SPEED			1	
DIFF PRESS SWITCH ON FILTER				
MANOMETER ON OIL CIRCUIT;				
DOWNSTREAM OF PUMP				
DOWNSTREAM OF FILTER			_	
SIGHT GLASSES ON OIL CIRCUIT				





احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

NISOC					-	, , ,			
شماره پیمان:							ENGINE DRIVEN	T	
3119-44-400	پروژه BK	بسته کاری GCS	صادر کننده PEDCO	تسهیلات 120	رشته ME	نوع مدرک DT	سريال 0030	نسخه D06	شماره صفحه: ۱۳ از ۱۳
	2.1	•		•	•			200	
		Ι	Diesel Engine Da	ata Sheet For F	ire Water Pu	mp - P-2301 B (S	I UNIT) (4 of 4)		
								1	
ENGINE EXHAUST TURBOCHARGER						T		-	
			TE BEFORE/			PI BEFORE/			
			AFTER COOLE	IR .		AFTER COOLE	R		
CIRCUIT OF:				,			,		
RAW WATER			-	/		_	/		
FRESH WATER			-	/		_	/		
OIL SUPERCHARGING:				/			/		
AIRSIDE				/			/	-	
WATERSIDE				/			/	-	
REMARKS:				,			<i>'</i>		
For each pump set one 400V, 3PH/N aux	riliary fooder	is delivered t	v nurchaser						
All required power for local control panel				t by yondor as	roquest				
Att required power for tocal control panel	(230VAC/110	VAC/Z4VDC) S	ilali De Coliveri	t by vendor as	request.				
-									
-									
_									
-									
-									