

053-073-9184

نگهداشت و افزایش تولید میدان نفتی بینک سطحالارض

CHURGAN THE

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیمان:

 MECHANICAL DATA SHEETS FOR FIRE WATER PUMPS-DIESEL ENGINE DRIVEN

 نسخه
 سوال
 نوع مدر ک
 رشته
 تسهدالات
 صادر کننده
 بسته کاری
 پروژه

 BK
 GCS
 PEDCO
 120
 ME
 DT
 0030
 D05

شماره صفحه: 1 از 13

طرح نگهداشت و افزایش تولید 27 مخزن

MECHANICAL DATA SHEETS FOR FIRE WATER MAIN PUMPS-DIESEL ENGINE DRIVEN (P-2301 B)

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	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



053-073-9184

نگهداشت و افزایش تولید میدان نفتی بینک سطحالارض

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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

 نسخه سریال نوع مدرک رشته تسهیلات صادر کننده بسته کاری پروژه

 BK
 GCS
 PEDCO
 120
 ME
 DT
 0030
 D05

شماره صفحه: 2 از 13

REVISION RECORD SHEET

							VISION RECORD SHEET						
page	D00	D01	D02	D03	D04	D05	page	D00	D01	D02	D03	D04	D05
1	Х	Х	Х	Х	Х	Х	65						
2	Х	Х	Х	Х	Х	Х	66						
3	Х	Х	Х	Х			67						
4	Х						68						
5	Х	Х	Х	х			69						
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8	Х						72				1		
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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

Misoc										
مان:	شماره پی	MECHANICAL DATA SHEETS FOR FIRE WATER PUMPS-DIESEL ENGINE DRIVEN								
053-073-9184		پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سر يال	نسخه	
033-073-7104		BK	GCS	PEDCO	120	ME	DT	0030	D05	

شماره صفحه: 3 از 13

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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نگهداشت و افزایش تولید میدان نفتی بینک سطحالارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

HIRGAN []

 MECHANICAL DATA SHEETS FOR FIRE WATER PUMPS-DIESLE ENGINE DRIVEN

 نخه سریال نوع مدرک رشته تمهیلات صادرکتنده بسته کاری پروژه BK GCS PEDCO 120 ME DT 0030 D05

شماره صفحه: 4 از 13

			N. I. IV. I. G. I.
		CLIENT:	National Iranian South Oil Company (NISOC)
		PROJECT TITLE:	BINAK Gas Compressor Station
		JOB NUMBER:	
	EQU	UIPMENT NUMBER:	P-2301 B
	EQU	UIPMENT SERVICE:	Fire Water Pumps - Diesel Engine Driven
		SERIAL NUMBER:	
		REQ. / SPEC NO.:	BK-GCS-PEDCO-120-ME-SP-0005
		PURCH ORDER NO.	
Cells c	coloured thus	contain drop-down op	options
		contain calculated val	alues based on input data; do not change.
		identify a cross refere	renced paragraph in the document note, and may also contain a drop down list
	- - - - - - - - -		
	- - - -		
	- - - -		
	- - - - - - - - -		
	- - - - - - - - - - - -		DATA SHEETS



NPSH MARGIN AT RATED FLOW: SPECIFIC SPEED (6.1.9)

SUCTION SPECIFIC SPEED LIMIT

EST MAX SOUND PRESS. LEVEL

EST MAX SOUND POWER LEVEL

MAX. ALLOW. SOUND PRESS. LEVEL REQD (6.1.14)

MAX. SOUND POWER LEVEL REQ'D (6.1.14)

SUCTION SPECIFIC SPEED

NPSH3 AT RATED FLOW:

CL PUMP TO U/S BASEPLATE

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض



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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

	1110	-											
			شماره پیمان∶		MECHANICAL	DATA SHEE	TS FOR FIRE	WATER PUMPS-DIE	SEL ENGINE DRIVI	EN			
	053-073	2 0104		ی پروژه	ننده بسته کار	ت صادر ک	تسهيلا	نوع مدر ک رشته	سريال	نسخه		ف حه : 5 از 13	شماره ص
	000-07	3-9104		BK (GCS PE	OCO ,	120	ME DT	0030	D05			
					CENTR	IEUGAL PUN	AP DATA SHI	EET (SI UNIT) - P-2301	R (Sheet 2 of 6)				
					CENTR	II COME I C	II DATA SIII	221 (51 0.111) - 1 -2301	B (Sheet 2 of 0)				
APPLICABL	_	PROPO	SAL					CABLE NTL/INTNTL STA	NDARD:		NFPA20 (2	2019) & IPS-M-PM	-125
FOR	NISOC						UNIT						
SITE	BINAK Gas	Compressor	Station				SERV	ICE Fire Wa	ater Pumps - Diesel Eng	ine Driven			
NO. REQ	1	_	PUMP SI	ZE			TYPE			No. STAGES	-		
MANUFACT	TURER						MODI		.T.C)	SERIAL NO	l.		
			ı	1	1	1	LIQUID CHA	RACTERISTICS					
			Units	Maximum	Minimur	n Note		SERVICE :			=	INTERMITTEN	T
	PE OR NAME :			Water	1	Max &	min	• IF INTERMITTENT NO). OF STARTS :				
VAPOR PRES	SSURE :		bara	0.0087	0.1219	values	refer	PUMPS OPERATE IN:					
DENSITY:			kg/m³		997	only to	the	CORROSION DUE TO : (
SPECIFIC HI			kj/kgC		4.186	proper	ty	EROSION DUE TO : (6.1					
VISCOSITY :			cР		1	listed		H2S CONCENTRATION					N.A.
				FING CONDITIONS (1	1	CHLORIDE CONCENTR					
			Units	Maximum	Rated	Normal	Min	PARTICULATE SIZE (DI					
NPSH _A Datur					C.L. Impe	ller	1	PARTICULATE CONCE	NTRATION (PPM)				
	EMPERATURE	:	°C	50			5	4					
FLOW :			m ³ /hr		454.20			_					
	E PRESSURE :(6	5.3.2)	barg		10.4			4					
SUCTION PE			barg	0.83	0.81		0.08	4					
	TAL PRESSURE	3:	bar		10.3								
DIFFERENT	TAL HEAD :		m		105.0								
NPSH _A :			m		8.8			4					
HYDRAULIC	POWER:		KW		129.50		Gran Lain I						
I OCLITION	,						SITE AND U	TILITY DATA					
LOCATION		**	NIII A TED	•	UDED DOOF			COOLING WATER:		RETU	IDNI DI	ESIGN	
MOUNTED	OUTDOOR		NHEATED		NDER ROOF	 -		TEMP		REIU	KN Di	ESIGN	
	AREA CLASS	IEICATION	T. (4	• TROPICALIS 5.1.22) ZONE		AFE		PRESS.		-			
GROUP	AREA CLASS	IFICATION	. (TEMP CLASS	- SE	TFE		SOURCE					
SITE DATA				TEMP CLASS					ER CHLORIDE CONCEN	TD ATION:			
ELEVATIO		12.5	m	BAROMETE	p .	990.77	mRe	INSTRUMENT AIR :	ER CHLORIDE CONCEN	kg	MIN	kg	-
	DESIGN TEMPS		-	5	85	°C		STEAM		Kg	WIIIN		
	HUMIDITY: MI		Α.	0	100		6 °C)	SILAM		DRIVERS	HEATING		
	CONDITIONS:					% (@ 25	.6 C)	TEMP		DRIVERS	TILATING		
	ONDITIONS:			NA NA		=		PRESS.					
ELECTRIC		UXILIARY	HEATING	CONTROL	SHUTDOV	WN							
VOLTA		400											
PHASE	_	3											
HERTZ	_	50											
			1	PERFORMANCE						DRIVER (7.1.5)	NOTE 22)		
PROPOSAL	CURVE NO.			RPM				Driver Type			,	DIESEL ENGINE	
	d Curve No.				-	=		GEAR			=	NO	•
IMPELLER DI	A.: RATED		MAX.	MIN.		mm		VARIABLE SPEED REQ	UIRED			NO	-
RATED POW	VER	Kw	EFF	ICIENCY		(%)		SOURCE OF VARIABLE					-
RATED CUR	RVE BEP FLOW		peller dia)			m³/hr		OTHER			-		-
MIN FLOW :			kJ/Nm³		-	m³/hr		MANUFACTURER			=		-
	OPERATING		-	to		m³/hr		NAMEPLATE POWER		@Site Condition	-		KW
	E OPERATING			to		m³/hr		Nominal RPM			-		-
MAX HEAD	@ RATED IMP	ELLER			-	m		RATED LOAD RPM					=
MAX POWE	R @ RATED IN	1PELLER			-	kW		FRAME OR MODEL				-	•

ORIENTATION

LUBE

RADIAL

THRUST

(dBA)

STARTING METHOD

Max Voltage Variation

Max Frequency Variation

SEE DRIVER DATA SHEET

Max Voltage and Frequency Variation together





شماره پیمان:

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک MECHANICAL DATA SHEETS FOR FIRE WATER PUMPS-DIESEL ENGINE DRIVEN

		_			بسته کاری		-21 . 7	شماره صفحه: 6 از 13 نسخه سریال نوع مدرک رشته تسه						
053	-073-918	34		پروژه BK	GCS	صادر کننده PEDCO	تسهیلات 120	ME	نوع مدر ک DT	سريال 0030	D05	13)10 .	سمارة صا	
				DN	GUS	PEDCO	120	IVIE	וט	0030	D05			
					(CENTRIFUGA	L PUMP DAT	A SHEET	(SI UNIT) - P-2301	B (Sheet 3 of 6)				
								ONSTRUC	CTION					
API PUMP TYPE:		B1		Based on API 610) definitional				ASING MOUNTING:					
AITTOMITTIE.			Į.	ascu on Al I olo	deminions				ASING TYPE:		(6.3.10)			
Nogar P governor	ova.		5.5)							ETING DEVICE DEOD		-		
NOZZLE CONNECTI	ONS:			NOTES 7,11		D 111	1	OF		FTING DEVICE REQD.				
		Size	Facing	Rating		Position				ASE PRESSURE RATIN				
SUCTION			RF	300		SIDE				MAWP:	(6.3.5)	By vendor barg @	ຶ(
DISCHARGE			RF	300		SIDE				HYDROTEST:		1.5*MAWP barg @	°c	
PRESSURE CASING			1			ı	1							
	No.	Size	Type	Facing	Rating	Posn.				OH PUMP AS ASSEMB			YES	
BAL./LEAK OFF		ļ							SUCT'N PRESS.	REGIONS DESIGNED F	FOR MAWP		YES	
DRAIN									ROTATION:		(VIEWED FROM CO	UPLING END)		
VENT									•	IMPELLERS INDIVIDU	ALLY SECURED :			
PRESSURE GAGE									•	BOLT OH 3/4/5 PUMP T	O PAD / FOUNDATION	:		
TEMP GAGE									•	PROVIDE SOLEPLATE	FOR OH 3/4/5 PUMPS			
WARM-UP LINE									ROTOR:					
					•				SHAFT FLEXIB	ILITY INDEX (SFI) (9.1.1	1.3)			
Drain Valve Supplie	ed By				SUP	PLIER			First Critical Spe	ed Wet (Multi stage pump	s only)			
DRAINS MANIFO	LDED					ES	=		COMPONENT E	BALANCE TO ISO 1940	G1.0		NO	
VENT Valve Suppl	ied By				SUP	PLIER			SHRINK FIT -LI	MITED MOVEMENT IM	PELLERS (9.2.2.3)			
VENTS MANIFOL	DED				· ·	ES	-		COUPLING:(7.	2.3)	(7.2.13.f)	NOTE 16		
THREAD. CONS FO	R PIPELINE	SERVICE	& < 50°C (6	.4.3.2)		NO	-		MANUFACTUR	ER				
SPECIAL FITTING	S FOR TRA	ANSITIONI	NG (6.4.3.	3)		NO	-		MODEL					
CYLINDRICAL TI						NO	-		RATING (POWE	ER/100 RPM)				
GUSSET SUPPOR			,,			YES	If Neede	ad	SPACER LENGT				mm	
	-		TIONS (6.	2 12)		NO	- II IVECU	eu .	SERVICE FACT				Min 1.5	
· · · · · · · · · · · · · · · · · · ·							=			OK				
VS 6 DRAIN N/A							-		RIGID		400		NO	
DRAIN TO SKID F	EDGE					YES				TH HYDRAULIC FIT (7.2				
. ppp				ATERIAL (6.1	-					ANCED TO ISO 1940-1			YES	
APPENDIX H CLASS				I-2	NOTES 3	_			COUPLING WIT	TH PROPRIETARY CLAN	MPING DEVICE (7.2.11)			
MIN DESIGN METAL						5	°C							
REDUCED-HARDNES			(6.12.1.12	.1)						COMPLIANCE WITH (7.2			API 671	
Applicable Hardness Sta	ndard (6.12.	1.12.3)						-		ARD STANDARD PER (7.2.13.a)	_	ISO 14120	
BARREL:									Window on Coup	ling Guard				
CASE:														
DIFFUSERS											BASEPLATE			
IMPELLER:									API BASEPLAT	E NUMBER :				
IMPELLER WEAR RIN	G:								BASEPLATE CO	ONSTRUCTION (7.3.14)				
CASE WEAR RING:									BASEPLATE DE	RAINAGE (7.3.1)		Entire Basep	olate Drain Pan	
SHAFT:									MOUNTING:					
Bowl (if VS-type)									NON-GROUT C	ONSTRUCTION: (7.3.13	3)			
Inspection Class Note 2									VERTICAL LEV	ELING SCREWS :		REQU	UIRED	
		BEA	RINGS A	ND LUBRICA	ATION (6.10.1	.1)			LONGITUDINA	L DRIVER POSITIONING	G SCREWS :	REC	QUIRED	
BEARING (TYPE / NU	MBER):	(6.1	11.4)						SUPPLIED WITH	H:	GROUT AND V	'ENT HOLES	YES	
RADIAL			/								DRAIN CONNE	ECTION	YES	
THRUST			/						MOUNTING PA	DS SIZED FOR BASEPL	ATE LEVELING (7.3.5)		YES	
REVIEW AND APPRO	VE THRUS	T BEARIN	G SIZE : (9	.2.5.2.4)					MOUNTING PA	DS TO BE MACHINED ((7.3.6)		YES	
									PROVIDE SPAC	ER PLATE UNDER ALL	EQUIPMENT FEET		YES	
LUBRICATION :	(6.10.2	2.2) (6.11.3)	(9.2.6)				-		OTHER					
PRESSURE LUBE				-	(9.2.6.5)		-							
				SHEETS ATTAC	_		-							
Pressurized Lube O	il System m								REMARKS:					
Location of Pressuri				acanlata :		-	=		REMARKS:					
Location of Pressuri	zed Libe O	ii Systein iii	ounted on t	asepiate:										
D. WEET	n.a. p	nn 0	n nr						-					
INTERCONNECTI		PROVIDE	D RA			pplier	=							
OIL VISC. ISO GR				VG			=							
CONSTANT LEVE	L OILER :													
1														





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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

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	شماره پیمان:	MECHANICAL DATA SHEETS FOR FIRE WATER PUMPS-DIESEL ENGINE DRIVEN								
53-073-9184		پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه	
133-073-7104		RK	GCS	PEDCO	120	ME	DT	0030	D05	

شماره صفحه: 7 از 13

	CENTRIFUGAL PUMP DATA SHE	ET (SI UNIT) - P-2301 B (Sheet 4 of 6)	
INSTRUMENTATION		SEAL SUPPORT SYSTEM M	IOUNTING
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	
		IDENTIFT LOCATION ON BASEL LATE	
Mounting Location of Accelerometers		INTERCONNECTING PIPING BY	Supplier
PROVISION FOR MTG ONLY (6.10.2.10)	YES	INTERCONNECTING PIPING B1	Supplier
Number of Accelerometers (6.10.2.10)	1123	MECHANICAL SEAL	(Z 0 1)
Number of Accelerometers Mounting Location of Accelerometers		SEE ATTACHED ISO 21049/API 682 DATA SHEET	
Mounting Location of Accelerometers			N/A NOTE 5
- :- comp. co.ppovimps (4.40.11)		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	7 (6 1 17)
PROVISIONS FOR VIB. PROBES	- N/A	COOLING REQ'D	NO NO
			
NUMBER PER RADIAL BEARING		COOLING WATER PIPING PLAN	
NUMBER PER AXIAL BEARING		COOLING WATER PIPING	
			INGS
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_GALIGES (WITH THERMOWELLS) (9.1.3.6)		PIPING & APPURTENA	NCEC
TEMP. GAUGES (WITH THERMOWELLS) (9.1.3.6) PRESSURE GAUGE TYPE		PIPING & APPURTENA MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6)	INCES
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6)	
		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT	YES
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN	YES YES
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN VALVES	YES YES YES (NOTE 8)
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN VALVES COOLING WATER	YES YES YES (NOTE 8) NO
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN VALVES COOLING WATER TAG ALL ORIFICES (7.5.2.4)	YES YES YES (NOTE 8)
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN VALVES COOLING WATER	YES YES YES (NOTE 8) NO
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN VALVES COOLING WATER TAG ALL ORIFICES (7.5.2.4)	YES YES YES (NOTE 8) NO
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN VALVES COOLING WATER TAG ALL ORIFICES (7.5.2.4)	YES YES YES (NOTE 8) NO
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN VALVES COOLING WATER TAG ALL ORIFICES (7.5.2.4)	YES YES YES (NOTE 8) NO
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN VALVES COOLING WATER TAG ALL ORIFICES (7.5.2.4)	YES YES YES (NOTE 8) NO
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN VALVES COOLING WATER TAG ALL ORIFICES (7.5.2.4)	YES YES YES (NOTE 8) NO
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN VALVES COOLING WATER TAG ALL ORIFICES (7.5.2.4)	YES YES YES (NOTE 8) NO
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN VALVES COOLING WATER TAG ALL ORIFICES (7.5.2.4)	YES YES YES (NOTE 8) NO
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN VALVES COOLING WATER TAG ALL ORIFICES (7.5.2.4)	YES YES YES (NOTE 8) NO
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN VALVES COOLING WATER TAG ALL ORIFICES (7.5.2.4)	YES YES YES (NOTE 8) NO
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN VALVES COOLING WATER TAG ALL ORIFICES (7.5.2.4)	YES YES YES (NOTE 8) NO
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN VALVES COOLING WATER TAG ALL ORIFICES (7.5.2.4)	YES YES YES (NOTE 8) NO
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN VALVES COOLING WATER TAG ALL ORIFICES (7.5.2.4)	YES YES YES (NOTE 8) NO
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN VALVES COOLING WATER TAG ALL ORIFICES (7.5.2.4)	YES YES YES (NOTE 8) NO
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN VALVES COOLING WATER TAG ALL ORIFICES (7.5.2.4)	YES YES YES (NOTE 8) NO
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN VALVES COOLING WATER TAG ALL ORIFICES (7.5.2.4)	YES YES YES (NOTE 8) NO
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN VALVES COOLING WATER TAG ALL ORIFICES (7.5.2.4)	YES YES YES (NOTE 8) NO
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN VALVES COOLING WATER TAG ALL ORIFICES (7.5.2.4)	YES YES YES (NOTE 8) NO
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN VALVES COOLING WATER TAG ALL ORIFICES (7.5.2.4)	YES YES YES (NOTE 8) NO
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN VALVES COOLING WATER TAG ALL ORIFICES (7.5.2.4)	YES YES YES (NOTE 8) NO
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN VALVES COOLING WATER TAG ALL ORIFICES (7.5.2.4)	YES YES YES (NOTE 8) NO
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN VALVES COOLING WATER TAG ALL ORIFICES (7.5.2.4)	YES YES YES (NOTE 8) NO
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN VALVES COOLING WATER TAG ALL ORIFICES (7.5.2.4)	YES YES YES (NOTE 8) NO
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION (7.5.1.6) VENT DRAIN VALVES COOLING WATER TAG ALL ORIFICES (7.5.2.4)	YES YES YES (NOTE 8) NO





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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

پیمان:									
053-073-9184	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه	شماره صفحه: 8 از 13
033-073-7104	BK	GCS	PEDCO	120	ME	DT	0030	D05	

CENTRIFUGAL PUMP DATA SHEET (SI UNIT) -P-2301 B (Sheet 5 of 6) SURFACE PREPARATION AND PAINT MANUFACTURER'S STANDARD SHOP INSPECTION (8.1.1) Yes OTHER (SEE BELOW) PERFORMANCE CURVE SPECIFICATION NO. BK-GNRAL-PEDCO-000-PI-SP-0006, "Specification & DATA APPROVAL PRIOR TO SHIPMENT. YES TEST WITH SUBSTITUTE SEAL (8.3.3.2.b) for Painting' MATERIAL CERTIFICATION REQUIRED CASING YES PUMP: PUMP SURFACE PREPARATION SHAFT (6.12.1.8) IMPELLER YES PRIMER AS PER PROJECT PAINTING SPEC. OTHER YES FINISH COAT AS PER PROJECT PAINTING SPEC. CASTING REPAIR WELD PROCEDURE APPR REOD YES INSPECTION REQUIRED FOR CONNECTION WELDS (6.12.3.4.d) BASEPLATE: BASEPLATE SURFACE PREPARATION LIQUID PENETRANT YES MAG PARTICLE AS PER PROJECT PAINTING SPEC. PRIMER: ULTRASONIC RADIOGRAPHY FINISH COAT AS PER PROJECT PAINTING SPEC. INSPECTION REQUIRED FOR CASTINGS DETAILS OF LIFTING DEVICES LIOUID PENETRANT VES MAG PARTICI E SHIPMENT: (8.4.1) EXPORT ULTRASONIC YES RADIOGRAPHY EXPORT BOXING REQUIRED YES HARDNESS TEST REQUIRED (8.2.2.7) ADDNL SUBSURFACE EXAMINATION (6.12.1.5) (8.2.1.3) OUTDOOR STORAGE MORE THAN 6 MONTHS YES SPARE ROTOR ASSEMBLY PACKAGED FOR: FOR ROTOR STORAGE ORIENTATION (9.2.8.2) METHOD SHIPPING & STORAGE CONTAINER FOR VERT STORAGE (9.2.8.3) N, PURGE (9.2.8.4) PMI TESTING REQUIRED (8.2.2.8) SPARE PARTS COMPONENTS TO BE TESTED 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 ITEM No PUMP DRIVER BASE TOTAL BASEPLATE TEST (7.3.21) WIT HYDROSTATIC HYDROSTATIC TEST OF BOWLS & COLUMN (9.3.13.2) PERFORMANCE TEST WIT OTHER PURCHASER REQUIREMENTS TEST IN COMPLIANCE WITH (8.3.3.2) NEPA 20 COORDINATION MEETING REQUIRED (10.1.3) TEST DATA POINTS TO (8.3.3.3) YES 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 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 PROGRESS REPORTS YES RETEST REQUIRED AFTER FINAL HEAD ADJ (8.3.3.7.b) 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) NO LOCATION OF CLEANLINESS INSPECTION MODAL ANALYSIS REQUIRED (9.3.9.2) NOZZLE 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 VFD STEADY STATE DAMPED RESPONSE ANALYSIS (6.9.2.3) 4 HR. MECH RUN AFTER OIL TEMP STABLE (8.3.4.2.1) NO WIT TRANSIENT TORSIONAL RESPONSE 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 EOUIPMENT TEST (8.3.4.6) EQUIPMENT TO BE INCLUDED IN AUXILIARY TESTS CONNECTION BOLTING (7.5.1.7) LOCATION OF AUXILIARY EQUIPMENT TEST CADMIUM PLATED BOLTS PROHIBITED 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) YES PER ASME SECTION VIII SUBMIT INSPECTION CHECK LIST (8.1.5) NOTE 2 YES REMOVE CASING AFTER TEST





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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							
053-073-9184		پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سر يال	نسخه
033-073-7104		BK	GCS	PEDCO	120	ME	DT	0030	D05

شماره صفحه: 9 از 13

CENTRIFUGAL PUMP DATA SHEET (SI UNIT) - P-2301 B (Sheet 6 of 6)									
PRESSURE VESSEL DESIGN CODE REFERENCES									
THESE REFERENCES MUST	BE LISTED BY THE MANUFACTURER	EL DESIGN CODE REFERENCES							
	NG FACTORS USED IN DESIGN (TABLE 3)								
	SOURCE OF MATERIAL PROPERTIES								
									
	WELDING	AND REPAIRS (NOTE 12)							
THESE REFERENCES MUST BE LISTED BY THE	E PURCHASER. (DEFAULT TO TABLE 11 IF NO PURCHASER P	REFERENCE IS STATED)							
ALTERNATE WELDING CODES AND STANDAR	RDS								
WELDING REQUIREMENT (APPLICABLE CODE	: OR STANDARD)		DEFAULT 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 FA	BRICATION WELDS		DEFAULT PER TABLE 11						
THESE REFERENCES MUST BE LISTED BY THI		ERIAL INSPECTION	DEFAULT TO TABLE 14 YES						
	ACCEPTANCE CRITERIA (SEE TABLE 15) (8.2.2.5)		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)									





احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

 MECHANICAL DATA SHEETS FOR FIRE WATER PUMPS-DIESEL ENGINE DRIVEN

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

 BK
 GCS
 PEDCO
 120
 ME
 DT
 0030
 D05

شماره صفحه: 10 از 13

		Di	iesel Engine Data Sheet For Fire Wa	ater Pump - P-2301 B (SI UNIT) (1 of 4)	
SERVICE:	** · *W-4 Pumps	Proceeding Deliver		MANUFACTURER:	
FOR:	NISOC	- Diesel Engine Driven		MODEL NO:	
SITE:		Ctation		TYPE:	
NO. REQUIRED:	BINAK Gas Compi	essor Station		1112.	
No. Regomes.					
			T	(Note 1)	REMARKS
OPERATING CONDITIONS	S		†	,	
DIESEL ENGINE MANUFAC		!			
ISO POWER (ISO 3046)		kW	-		
ISO SPEED		rpm	-		
SITE CONTINUOUS RATED	D POWER	kW	-		
SITE CONTINUOUS RATED		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 POV	WER	,			
FUEL SPECIFIC CONSUMP		g/kWh			
TOLERANCE		%			
SPEED		rpm (NOTE 20)	-		
LOAD ACCEPTANCE RATIF	NG	% 1 step	-		
		!			
ENGINE DATA		!			
CYCLE:- 2 STROKE/4 STR	ROKE	!			4 STROKE REQUIRED
NUMBER OF CYLINDERS		!	-		
IN-LINE/V FORM		,			
BORE/STROKE		mm			
CAPACITY		liters			
BMEP (RATED)		!			
PISTON SPEED		m/s			
COOLING SYSTEM: AIR/W	VATER	!			CLOSED SYSTEM (Air fan & Radiator)
TURBOCHARGER:-		,			
SINGLE OR SERIES		!			
INTERCOOLER		CA or CW			
		!			
EMISSIONS		,			
No _x EMISSION		g/kWh			IPS-E-SF-860
CO EMISSION		g/kWh			
CO ₂ EMISSION		g/kWh			
		!			
STARTING SYSTEM		,			
AIR:-		!			
NUMBER OF TANKS		!			
PRESSURE		Barg / Kpag			
CAPACITY		m^3			
NO. OF STARTS W/OUT F	REFILLING	!			
		!			
STARTING SYSTEM		,			
ELECTRICAL:-		!		\longrightarrow	YES
NO. OF BATTERIES		!		D05	2 set including 20 cells with 200 ampere hour capacity
		,			at least (Dual charger equal to 100% of power)
TYPE					Nickel - Cadmium
TOTAL CAPACITY		Ah			
STARTING CIRCUIT		!			
STARTING MOTOR			<u> </u>		





احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

 MECHANICAL DATA SHEETS FOR FIRE WATER PUMPS-DIESEL ENGINE DRIVEN

 MECHANICAL DATA SHEETS FOR FIRE WATER PUMPS-DIESEL ENGINE DRIVEN

 سریال
 نوع مدرک
 رشته
 تسهیلات
 صادرکننده
 بسته کاری
 پروژه

 BK
 GCS
 PEDCO
 120
 ME
 DT
 0030

شماره صفحه: 11 از 13

نسخه

D05

		Diesel Engine Data Sheet For Fire Water Pump - P-2301 B (SI UNIT) (2 of 4)	
		breset Engine Data Sheet For Fire Water Lump -1-2501 B (St CA11) (2 of 4)	
HYDRAULIC:-			
ACCUMULATOR/MOTOR			
NO OF STARTS PER 5 SEC CRANKS			
NO OF ACCUMULATORS			
NO OF ACCOMBLATORS			
DADDING CYCTEM			
BARRING SYSTEM			
MANUAL/ELEC/HYDRAULIC IF REQ'D			MANUAL
LUBRICATION			
DRY SUMP			
SYSTEM;- PRESSURE	bar g / Kpa g		
DIL QUANTITY			
DIL CONSUMPTION	g/kwh		
PUMPS	Main/Aux		
OWF3	Walli/ Aux		
DIL FILTER:-			
CHANGE OVER WHILE RUNNING	Reqd y/n		
NLET SYSTEM			
FILTER:-			TWO STAGE
ГҮРЕ	Wet or dry		
IUMBER	•		
AIR CUT OFF SYSTEM ("RIG SAVER")			YES
in our orr statem (Mo stver)			120
VIIALIST SVSTEM			
EXHAUST SYSTEM			NTO.
ENGINE PIPE OUTLET			YES
SPARK ARRESTOR			YES
SILENCER	dBA @1m		YES - 85
EXPANSION JOINT			YES
XHAUST MANIFOLD	Cooling		PERSONNEL PROTECTION
FUEL			
MAX STATIC HEAD ABOVE FUEL INLET			
ILTER CLEANABLE WHILE RUNNING	Y/N		YES
SELF CLEANING	Y/N		YES
			YES
HANGEOVER WHILE RUNNING	Y/N		TES
HEAT EMISSIONS			
O COOLING SYSTEM	kW		
O AMBIENT	kW		
ITE AND INSTALLATION DATA			
LTITUDE	m		
MBIENT TEMPERATURE MIN/MAX	°C		5 / 50
ESIGN TEMPERATURE	°C		52
HUMIDITY	%		0 / 100
VIND SPEED	km/h		
TMOSPHERIC AIR (DUST/FUMES)			
CORROSION BY			
OCATION:- INDOOR/OUTDOOR			OUTDOOR
		- [



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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

 MECHANICAL DATA SHEETS FOR FIRE WATER PUMPS-DIESEL ENGINE DRIVEN

 سریال
 نوع مدر ک
 رشته
 تهیلات
 صادر کننده
 بسته کاری
 پروژه

 BK
 GCS
 PEDCO
 120
 ME
 DT
 0030

شماره صفحه: 12 از 13

D05

		Diesel Engine Data Sheet For Fire Water	Pump - P-2301 B (SI UNIT) (3 of 4)	
HEATED / UNHEATED				UNHEATED
UNDER ROOF / PARTIAL SIDES				UNDER ROOF
AREA CLASSIFICATION		-		·
STARTING:- LOCAL / REMOTE		-		-
		-		-
AVAILABLE LITH ITIES		-		-
AVAILABLE UTILITIES				
COOLING WATER:-				FROM FIRE WATER PUMP DISCHARGE
PRESSURE	bar g / kPa g			
AVAILABLE PRESSURE DROP	bar / kPa			
TEMPERATURE	°C			
TEMPERATURE CHANGE	°C			-
		-		
INCTRIMENT AID.		-		
INSTRUMENT AIR:-				
PRESSURE	bar g / kPa g			
TEMPERATURE	°C			
DEW POINT	°C			
ELECTRICITY SUPPLY	AC			
	DC			-
FUEL CHARACTERISTICS:-				
		-		-
FUEL OIL CLASSIFICATION				
VISCOSITY	сР	-		
TEMPERATURE	°C			
OPERATING DURATION	hrs			
IMPURITIES	% weight			
ELIEL CYCTEM		-		
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				-
		-	 -	·
DAINTING		-		-
PAINTING				
STANDARD/OTHER		<u> </u>		IPS-E-TP-100
INSPECTION AND TESTING				
MANUFACTURER'S STANDARD				
OTHER				IPS-M-PM-290
		-		
INCTRUMENTATION		AL ADM	MWOGTHILS	IDC M DM 200 CECTION C 9
INSTRUMENTATION		ALARM	SHUTDOWN	IPS-M-PM-290 SECTION 6.8.
LUBRICATING OIL PRESSURE				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				
		-		-
DIFF PRESS SWITCH ON FILTER				
MANOMETER ON OIL CIRCUIT;				
DOWNSTREAM OF PUMP				
DOWNSTREAM OF FILTER		<u></u>		
SIGHT GLASSES ON OIL CIRCUIT				



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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیمان: 053-073-9184
 MECHANICAL DATA SHEETS FOR FIRE WATER PUMPS-DIESEL ENGINE DRIVEN

 نسخه سریال نوع مدر ک رشته تسهیلات صادرکننده بسته کاری پروژه

 BK
 GCS
 PEDCO
 120
 ME
 DT
 0030
 D05

شماره صفحه: 13 از 13

- / / / PERCHARGING: / / / SIDE / / / / / / / / / / / / / / / / / / /		Discal Engine Date Cheet For Fire Water Dr	mp D 2201 D (SI UNIT) (4 of 4)	
TE BEFORE / AFTER COOLER AFTER COOLER AFTER COOLER W WATER /	1	Diesei Engine Data Sneet For Fire Water Pu	шр - г-2301 в (S1 UN11) (4 01 4)	
TE BEFORE / AFTER COOLER AFTER COOLER AFTER COOLER W WATER /	GINE EXHAUST TURBOCHARGER			
AFTER COOLER AFTER COOLER AFTER COOLER AFTER COOLER AFTER COOLER AFTER COOLER AFTER COOLER AFTER COOLER AFTER COOLER AFTER COOLER AFTER COOLER AFTER COOLER AFTER COOLER AFTER COOLER AFTER COOLER AFTER COOLER AFTER COOLER AFTER COOLER AFTER COOLER AFTER COOLER AFTER COOLER AFTER COOLER AFTER COOLER AFTER COOLER AFTER COOLER AFTER COOLER AFTER COOLER AFTER COOLER		TE BEFORE/	PL REFORE/	
RCUIT OF: W WATER W WATER / / / ESH WATER / / / PERCHARGING: RSIDE / / / ATERSIDE / / / MARKS: For each pump set one 400V, 3PH/N auxiliary feeder is delivered by purchaser.				
W WATER	OCHIT OF.	ALTER COOLER	AFTER COULER	
			,	
PERCHARGING: PERCHARGING: PERCHARGING: PERCHARGING: PERCHARGING: // VICTOR / WATERSIDE // WARKS: For each pump set one 400V, 3PH/N auxiliary feeder is delivered by purchaser.	ESH WATER			
ASIDE / / / ATERSIDE / / / MARKS: For each pump set one 400V, 3PH/N auxiliary feeder is delivered by purchaser.	=	/	/	
ATERSIDE / / / MARKS: For each pump set one 400V, 3PH/N auxiliary feeder is delivered by purchaser.	PERCHARGING:			
ATERSIDE / / / MARKS: For each pump set one 400V, 3PH/N auxiliary feeder is delivered by purchaser.	RSIDE	/	/	
MARKS: For each pump set one 400V, 3PH/N auxiliary feeder is delivered by purchaser.	ATERSIDE	/	/	
For each pump set one 400V, 3PH/N auxiliary feeder is delivered by purchaser.		-		
		by purchaser.		
	- Militedulied power for local control panel (2504/16/1104/16/24480)	shall be convert by vehicle as request.		
	=			
	-			
	-			
	-			