

3419-74-70+

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض

خرید پکیج پمپ های آب آتشنشانی ایستگاه تقویت فشار گاز بینک (قرارداد BK-HD-GCS-CO-۰۰۲_۰۰)



شماره پیمان:

 DATA SHEETS (W/PERFORMANCE CURVE) FOR FIRE WATER MAIN DIESEL PUMP

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

 BK
 GCS
 KP
 120
 ME
 DS
 0001
 V01

شماره صفحه: ۱ از ۱۶

طرح نگهداشت و افزایش تولید ۲۷ مخزن

DATA SHEETS (W/PERFORMANCE CURVE) FOR FIRE WATER MAIN DIESEL PUMP

نگهداشت و افزایش تولید میدان نفتی بینک

V01	FEB.2025	IFA	Kalaye Pump	M.Fakharian	S.Faramarzpour	
V00	Nov-2024	IFA	Kalaye Pump	M.Fakharian	M.Sadeghian	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

stat	us

IFI: Issued For Information

IFA: Issued For Approval

AFC: Approved For Construction



خرید پکیج پمپ های آب آتشنشانی ایستگاه تقویت فشار گاز بینک (ولرداد BK-HD-GCS-CO-۰۲۳_۰۰)



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 DATA SHEETS (W/PERFORMANCE CURVE) FOR FIRE WATER MAIN DIESEL PUMP

 سریال انوغ مدرکه رشته تسهیلات صادرکننده بسته کاری پروژه

 BK
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شماره صفحه: ۱۲ز ۱۶

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3118-74-70.

شماره پیمان:

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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.

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنيه تحت الارض

خرید پکیج پمپ های آب آتشنشانی ایستگاه تقویت فشارگاز بینک (قرارداد ۲۳_۰۰-BK-HD-GCS-CO)

DATA SHEETS (W/PERFORMANCE CURVE) FOR FIRE WATER MAIN DIESEL PUMP

تسهيلات

نوع مدرک سريال 0001 V01 شماره صفحه: ۱۳ز ۱۶

KPC: Confirmed

KPC: Confirmed **KPC**: Confirmed

	GENERAL NOTES	
1	Vendor shall fill in the blanks and return the completed data sheet along with Diesel data sheet with his proposal.	KPC : Confirmed
2	Vendor shall submit ITP (Inspection & Testing Plan) with his proposal.	KPC : Confirmed
3	Vendor is requested to confirm the material, or propose appropriate alternative.	KPC : Confirmed
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.	KPC : Confirmed
5	Instead of mechanical seal, vendor shall advise the suitable Packing specification.	KPC : Packing is confirme
6	NPSH test shall be done & witnessed if the margin of NPSHr & NPSHa is less than 1.	KPC : Confirmed
7	The Tie-in flanges shall conform to ASME B-16.1.	KPC : Confirmed
8	Pump drain shall be terminated at skid edge with flange connection and valved.	KPC : Confirmed
9	Supplier to indicate which minimum flow pumps can achieve.	KPC : Confirmed
10	Nozzle loads shall be 2 times the loads shown in API 610 11th Edition.	KPC : Confirmed
11	The Suction line size is 12" and discharge line is 10".	KPC : Confirmed
12	Air release valve shall be considered by vendor .	KPC : Pump is self vent
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.	KPC : Confirmed
14	Ultrasonic Test shall be performed for forged shaft.	KPC : Confirmed
15	Couplings shall be dry, flexible and spacer type.	KPC : Confirmed
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.	KPC : Confirmed
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.	KPC : Confirmed
18	The electrical characteristics of panels shall be specified by vendor such as: - The power demand of control panel The number of control panel.	KPC : Confirmed
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.	KPC : Confirmed
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.	KPC : Confirmed
21	pressure sensing lines are in the vendor's scope of supply.	KPC : Confirmed
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.	KPC : Confirmed



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خرید پکیج پمپ های آب آتشنشانی ایستگاه تقویت فشار گاز بینک (قرارداد ۲۳_۰۰-BK-HD-GCS-CO)



شماره پیمان:

.04-.44-4148

DATA SHEETS (W/PERFORMANCE CURVE) FOR FIRE WATER MAIN DIESEL PUMP صادر کننده بسته کاری
GCS KP نسخه V01 سريال 0001 پروژه BK تسهيلات ا نوع مدر ک رشته ME DS 120

شماره صفحه: ۱۶ز ۱۶

		CENTRI	UGAL PUMP DATA SHEET (SI UNIT) - P-2301 B (Sheet 1 of 6)		
				-	
	CLI	ENT:	National Iranian South Oil Company (NISOC)		
	PROJECT T	ITLE:	BINAK Gas Compressor Station		
	JOB NUM	BER:			
	EQUIPMENT NUM	BER:	P-2301 B		
	EQUIPMENT SERV	VICE:	Fire Water Pumps - Diesel Engine Driven		
	SERIAL NUM	BER:			
	REQ. / SPEC	NO.:	BK-GCS-PEDCO-120-ME-SP-0005		
	PURCH ORDE	R NO.			
Cells coloured t	thus contain dro	p-down opti			
		-	based on input data; do not change.		
	identify a c	ross referenc	d paragraph in the document note, and may also contain a drop down list		
	have completed the DS, highlight e notes on completion	the whole p	e format cells pattern none		
C	OMMENTS.				
C	OMMENTS:				
			DATA SHEETS		1
PUMP	ITEM No. P-2301 B	ATT YES	ITEM No. ATT	ITEM No.	ATT
MOTOR GEAR					
TURBINE					_



.04-.44-4148

شماره پیمان:

پروژه

BK

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید پکیج پمپ های آب آتشنشانی ایستگاه تقویت فشارگاز بینک

خرید پکیج پمپ های آب آتشنشانی ایستگاه تقویت فشار ً (قرارداد BK-HD-GCS-CO-00۲۳_00)

 DATA SHEETS (W/PERFORMANCE CURVE) FOR FIRE WATER MAIN DIESEL PUMP

 نسخه سریال نوع مدر ک نشته تسهیلات صادر کننده بسته کاری

 GCS
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 V01



شماره صفحه: ٥ از ١٤

	CENTRIFUGAL PUMP DATA SHEET (SI UNIT) - P-2301 B (Sheet 2 of 6)									
APPLICABLE	TO: PROPO	DEAT				A DDI 10	CABLE NTL/INTNTL STANDARD:	NED	PA20 (2019) & IPS-M-PM-125	
FOR	NISOC PROPE	JSAL				UNIT	ABLE NIL/ININIL STANDARD:	NFF	-A20 (2019) & 1FS-M-FM-125	-
		Gr. 4°				SERVI	E W. B. D. LE	. D.		-
SITE	BINAK Gas Compresso			8"x6"		_		No. STAGES	1	-
NO. REQ MANUFACTU		PUMP SIZ		LAYE PUI	MD CO	TYPE MODE	BB1 BB1 (V.T.C) KPSPF 1		1	=
MANUFACTO	KEK		KA	LAIEFU	vir CO.		BB1 (V.T.C) KPSPF 1 RACTERISTICS	150-5/U SERIAL NO.		
		T	м :	VC :	L	LIQUID CHAI	1		Dige Da Greenin	
LIOLUD TUDE	OD NAME	Units	Maximum	Minimum	Note		SERVICE:		INTERMITTENT	-
LIQUID TYPE			Water	0.1210	Max &		• IF INTERMITTENT NO. OF STARTS :			-
VAPOR PRESS	SURE:	bara	0.0087	0.1219	values		PUMPS OPERATE IN:		_	
DENSITY:	- m	kg/m³		97	only to		CORROSION DUE TO : (6.12.1.9)			
SPECIFIC HEA	AT:	kj/kgC		186	proper	ty	EROSION DUE TO: (6.12.1.9)			***
VISCOSITY :		cР		1	listed		H2S CONCENTRATION (ppm): (6.12.1.12)			N.A.
			TING CONDITIONS (6.1			1.0	CHLORIDE CONCENTRATION (ppm):			
		Units	Maximum	Rated	Normal	Min	PARTICULATE SIZE (DIA IN MICRONS)			
NPSH _A Datum		_		C.L. Impelle	er		PARTICULATE CONCENTRATION (PPM)			
PUMPING TE	MPERATURE :	°C	50			5				
FLOW:		m³/hr		454.20						
	RESSURE :(6.3.2)	barg	0	10.4		1				
SUCTION PRI		barg	0.83	0.81		0.08				
	AL PRESSURE :	bar		10.3						
DIFFERENTIA	AL HEAD :	m		105.0						
NPSH _A :		m		8.8						
HYDRAULIC I	POWER:	KW		129.50						
						SITE AND U	FILITY DATA			
LOCATION:							COOLING WATER:		1 1	
		JNHEATED		DER ROOF				RETURN	DESIGN	
MOUNTED A			• TROPICALISA		_		TEMP			
	REA CLASSIFICATIO		5.1.22) ZONE	SAF	E		PRESS.			
GROUP			TEMP CLASS				SOURCE			
SITE DATA:						_	COOLING WATER CHLORIDE CONCE			
ELEVATION		_	BAROMETER		990.77	mBai	INSTRUMENT AIR :	kg	MIN kg	
	ESIGN TEMPS:MIN / MA	ΛX	5		С		STEAM		1	
	JMIDITY: MIN / MAX			100 9	(@ 25	.6 °C)		DRIVERS HEATIN	G	
UNUSUAL CO			<u>NA</u>				TEMP			
UTILITY CO		1	1	l			PRESS.			
ELECTRICIT		HEATING	CONTROL	SHUTDOWN	N					
VOLTAG										
PHASE	3									
HERTZ	50									
nn on oa i v			PERFORMANCE	1.400			D	DRIVER (7.1.5) (NOTE 2		
PROPOSAL C		PSPF 150		1490 SPF 150-5	70		Driver Type		DIESEL ENGINE	
As Tested		-					GEAR		NO NO	
	: RATED 530		585 MIN. ICIENCY	450	mm		VARIABLE SPEED REQUIRED			
RATED POWI			ICIENCY	72	(%)		SOURCE OF VARIABLE SPEED			
	E BEP FLOW (at rated in	пренег спа)		489	m³/hr		OTHER		WOLVO	
MIN FLOW:	OPERATING REGION (6		242	15	m³/hr		MANUFACTURER		VOLVO	· · · · · · · · · · · · · · · · · · ·
		.1.11)	342 to	681	m³/hr		NAMEPLATE POWER	@Site Condition		W
	OPERATING REGION		146to	681	m³/hr		Nominal RPM		1490	
	RATED IMPELLER			120	m		RATED LOAD RPM		TAD1241CE	•
	@ RATED IMPELLER			241	kW		FRAME OR MODEL		TAD1341GE	
NPSH3 AT RA				3.5	m		ORIENTATION	_	HORIZONTAL	
	U/S BASEPLATE				m		LUBE			
	N AT RATED FLOW:			5.3	m					
SPECIFIC SPE				0.67			RADIAL			
	CIFIC SPEED LIMIT			867			THRUST			
SUCTION SPE				8498			STARTING METHOD	D.O.L/Open	Discharge Valve	
	/. SOUND PRESS. LEVE	L REQD (6.1.14)		110	(dBA)	@ 1 m	SEE DRIVER DATA SHEET			
	JND PRESS. LEVEL				(dBA)		Max Voltage Variation			
	POWER LEVEL REQ'D	(6.1.14)					Max Frequency Variation			
EST MAX SO	JND POWER LEVEL						Max Voltage and Frequency Variation together			



نگهداشت و افزایش تولید میدان نفتی بینک

سطح الارض و ابنيه تحت الارض

خرید پکیج پمپ های آب آتشنشانی ایستگاه تقویت فشارگاز بینک (قرارداد ۲۳_۰۰-BK-HD-GCS-CO)



شماره پیمان: DATA SHEETS (W/PERFORMANCE CURVE) FOR FIRE WATER MAIN DIESEL PUMP تسهيلات رشته نوع مدرک يروژه بسته کاری صادر کننده نسخه V01 BK GCS KΡ 120 ME DS 0001

شماره صفحه: ٦ از ١٤ ·07-·77-91A£ CENTRIFUGAL PUMP DATA SHEET (SI UNIT) - P-2301 B (Sheet 3 of 6) CONSTRUCTION API PUMP TYPE: CASING MOUNTING: **FOOT** BB1 [Based on API 610 definitions] CASING TYPE: (6.3.10) SINGLE VOLUTE NOZZLE CONNECTIONS: (6.5.5) OH3 BACKPULLOUT LIFTING DEVICE REQD. (9.1.2.6) NOTES 7,11 Position Size Facing Rating CASE PRESSURE RATING: SUCTION 8" RF 150 SIDE MAWP: (6.3.5) 15 Amb. barg @ DISCHARGE 6'' RF 150 SIDE HYDROTEST: 1.5*MAWP barg Amb. PRESSURE CASING AUX. CONNECTIONS: (6.4.3.2) HYDROTEST OH PUMP AS ASSEMBLY No. Size Type Facing Rating Posn. YES SUCT'N PRESS. REGIONS DESIGNED FOR MAWP YES BAL/LEAK OFF 150 CW DRAIN 1/2" SWF RF SIDE ROTATION: (VIEWED FROM COUPLING END) 1 • IMPELLERS INDIVIDUALLY SECURED : 1/2" SWF RF 150 SIDE 1 YES PRESSURE GAGE BOLT OH 3/4/5 PUMP TO PAD / FOUNDATION : TEMP GAGE PROVIDE SOLEPLATE FOR OH 3/4/5 PUMPS WARM-UP LINE ROTOR: SHAFT FLEXIBILITY INDEX (SFI) (9.1.1.3) Drain Valve Supplied By SUPPLIER First Critical Speed Wet (Multi stage pumps only) DRAINS MANIFOLDED COMPONENT BALANCE TO ISO 1940 G1.0 YES NO SUPPLIER SHRINK FIT -LIMITED MOVEMENT IMPELLERS (9.2.2.3) VENT Valve Supplied By COUPLING:(7.2.3) VENTS MANIFOLDED THREAD. CONS FOR PIPELINE SERVICE & < 50°C (6.4.3.2) NO MANUFACTURER Colossus FLEXIBLE SPACER TYPE SPECIAL FITTINGS FOR TRANSITIONING (6.4.3.3) NO MODEL CYLINDRICAL THREADS REOUIRED (6.4.3.8) NO RATING (POWER/100 RPM) SPACER LENGTH GUSSET SUPPORT REQUIRED YES If Needed 180 mm MACHINED AND STUDDED CONNECTIONS (6.4.3.12) NO SERVICE FACTOR Min 1.5 NO DRAIN TO SKID EDGE YES COUPLING WITH HYDRAULIC FIT (7.2.10) MATERIAL (6.12.1.1) COUPLING BALANCED TO ISO 1940-1 G6.3 (7.2.3) YES APPENDIX H CLASS I-2 COUPLING WITH PROPRIETARY CLAMPING DEVICE (7.2.11) MIN DESIGN METAL TEMP (6.12.4.1) °C API 671 REDUCED-HARDNESS MATERIALS REO'D (6.12.1.12.1) COUPLING IN COMPLIANCE WITH (7.2.4) COUPLING GUARD STANDARD PER (7.2.13.a) Applicable Hardness Standard (6.12.1.12.3) ISO 14120 BARREL: Window on Coupling Guard YES CASE : GGG40(A536 60-40-18) DIFFUSERS BASEPLATE IMPELLER : C95200 API BASEPLATE NUMBER : IMPELLER WEAR RING: C95200 BASEPLATE CONSTRUCTION (7.3.14) PARTIAL TOP DECKING CASE WEAR RING : C95200 BASEPLATE DRAINAGE (7.3.1) Entire Baseplate Drain Pan SHAFT: A276 T420 MOUNTING: Bowl (if VS-type) NON-GROUT CONSTRUCTION: (7.3.13) nspection Class Note 2 VERTICAL LEVELING SCREWS REQUIRED BEARINGS AND LUBRICATION (6.10.1.1) LONGITUDINAL DRIVER POSITIONING SCREWS REQUIRED BEARING (TYPE / NUMBER): (6.11.4) SUPPLIED WITH: GROUT AND VENT HOLES YES RADIAL ROLLER DRAIN CONNECTION YES THRUST BALL MOUNTING PADS SIZED FOR BASEPLATE LEVELING (7.3.5) YES REVIEW AND APPROVE THRUST BEARING SIZE : (9.2.5.2.4) MOUNTING PADS TO BE MACHINED (7.3.6) YES PROVIDE SPACER PLATE UNDER ALL EQUIPMENT FEET YES (6.10.2.2) (6.11.3) (9.2.6) GREASE ISO 10438 DATA SHEETS ATTACHED Pressurized Lube Oil System mtd on pump baseplate REMARKS: Location of Pressurized Lube Oil System mounted on baseplate: INTERCONNECTING PIPING PROVIDED BY Supplier OIL VISC. ISO GRADE VG CONSTANT LEVEL OILER :



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DATA SHEETS (W/PERFORMANCE CURVE) FOR FIRE WATER MAIN DIESEL PUMP

.04-.44-4148

	DATA SHEETS (W/FERFORMANCE CORVE) FOR FIRE WATER MAIN DIESEL FOMF											
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه					
BK	GCS	KP	120	ME	DS	0001	V01					

شماره صفحه: ۱۷ز ۱۶

		DATA SHEET (SI UNIT) - P-2301 B (Sheet 4 of 6)	
INSTRUMENTATION		SEAL SUPPORT S	SYSTEM MOUNTING
SEE ATTACHED API-670 DATA SHEET		SEAL SUPPORT SYSTEM MOUNTED ON PUMP BASI	
ACCELEROMETER (7.4.2.1)			(7.5.1.4)
Number of Accelerometers		IDENTIFY LOCATION ON BASEPLATE	` ' <u></u>
Mounting Location of Accelerometers			
		INTERCONNECTING PIPING BY	Supplier
PROVISION FOR MTG ONLY (6.10.2.10)	YES	INTERCONNECTING FILING BT	
Number of Accelerometers	1125	MECHANIC	AL SEAL (6.8.1)
		SEE ATTACHED ISO 21049/API 682 DATA SHEET	
Mounting Location of Accelerometers			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	O 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 CARLES SUPPLIED BY (7.40.4)		COOLING WATER PIPING MATERIALS	
MONITORS AND CABLES SUPPLIED BY (7.4.2.4)			
		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 & AI	PPURTENANCES
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNECTION	I (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	
		SOCKET WELD CONN ON SEAL GLAND (7.3	



شماره پیمان:

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید پکیج پمپ های آب آتشنشانی ایستگاه تقویت فشارگاز بینک

فرید پکیج پمپ های آب آتشنشانی ایستگاه تقویت فشارگا (قرارداد BK-HD-GCS-CO-00۲۳_00)



٠٥٣-٠٧٣-٩١٨٤

 DATA SHEETS (W/PERFORMANCE CURVE) FOR FIRE WATER MAIN DIESEL PUMP

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

 BK
 GCS
 KP
 120
 ME
 DS
 0001
 V01

شماره صفحه: ۱۸ز ۱۶

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

		SUI	RFACE PREPAI	RATION AND PAINT	,			TEST		
MANUFACTU	RER'S STAND	ARD					SHOP INSPECTION (8.1.1)			Yes
OTHER (SEE I	BELOW)			•			PERFORMANCE CURVE			
SPECIFICATION	ON NO.	BK-GNRAL-F	EDCO-000-PI-SP-	0006, "Specification			& DATA APPROVAL PRIOR TO SHIPMENT.			YES
		for Painting"		•			TEST WITH SUBSTITUTE SEAL (8.3.3.2.b)			
PUMP:							MATERIAL CERTIFICATION REQUIRED		CASING	YES
PUMP SURFA	CE PREPARAT	ION					SHAFT YES		(6.12.1.8) IMPELLER	YES
PRIMER				AS PER PROJECT PAI	NTING SPEC.		OTHER YES	Casing and impell	er Wear ring	
FINISH COAT				AS PER PROJECT PAI	NTING SPEC.		CASTING REPAIR WELD PROCEDURE APPR	REQD		YES
BASEPLATE:							INSPECTION REQUIRED FOR CONNECTION	WELDS (6.12.3.4.	d) KPC:NOT APPLICABLE	
	URFACE PREI	PARATION					LIQUID PENETRANT	YES	MAG PARTICLE	
PRIMER:				AS PER PROJECT PAI	NTING SPEC.		ULTRASONIC		RADIOGRAPHY	YES
FINISH COAT				AS PER PROJECT PAI			INSPECTION REQUIRED FOR CASTINGS		-	
	JFTING DEVIC	CES					LIQUID PENETRANT	YES	MAG PARTICLE	NO
SHIPMENT: (8.4.1)			EXP	ORT		ULTRASONIC	YES	RADIOGRAPHY	
	ING REQUIRE	D			YES		HARDNESS TEST REQUIRED (8.2.2.7)		-	
		E THAN 6 MON	THS		YES		ADDNL SUBSURFACE EXAMINATION (6.12.	1.5) (8.2.1.3)		
				•				, (,	FOR	
ROTOR STOR	AGE ORIENTA	TION (9.2.8.2)							METHOD	
			ERT STORAGE (9	2.8.3)						
N ₂ PURGE (9.2				,			PMI TESTING REQUIRED (8.2.2.8)			
SPARE PART							COMPONENTS TO BE	TESTED		
START-UP					YES		RESIDUAL UNBALANCE TEST (J.4.1.2)	TEGTED		
NORMAL MA	INTENANCE				YES		NOTIFICATION OF SUCCESSFUL SHOP			YES
NOKWAL WA	INTENANCE				1123		PERFORMANCE TEST (8.1.1.c) (8.3.3.5)			YES
ITEM No	PUMP	DRIVER	GEAR	BASE		TOTAL	BASEPLATE TEST (7.3.21)			
P-2301 B	750	1790				3420				WIT
P-2301 B	/50	1790	Not applicable	840		3420	HYDROSTATIC	1 (0.2.12.2)	-	WII
							HYDROSTATIC TEST OF BOWLS & COLUMN	N (9.3.13.2)	-	
			TED DVID GVI A		2		PERFORMANCE TEST		-	WIT
GOODDI				ER REQUIREMENTS			TEST IN COMPLIANCE WITH (8.3.3.2)		-	NFPA 20
		ING REQUIRE			YES		TEST DATA POINTS TO (8.3.3.3)		-	NFPA 20
MAXIMU	M DISCHARGI	E PRESSURE TO	O INCLUDE				TEST TOLERANCES TO (8.3.3.4)			TABLE 16
							NPSH (8.3.4.3.1) (8.3.4.3.4)		NOTE 6	WIT
			TO TRIP SPEED				NPSH-1ST STG ONLY (8.3.4.3.2)		-	
			AND/OR NO OF S	TAGES	YES		NPSH TESTING TO HI 1.6 OR ISO 9906 (8.3.4.		-	
		APPROVAL (9.			YES		TEST NPSHA LIMITED TO 110% SITE NPSHA	A (8.3.3.6)	-	
		/ REPORT (6.9	.2.10)		NO		RETEST ON SEAL LEAKAGE (8.3.3.2.d)		-	OBSERVE
	SS REPORTS				YES		RETEST REQUIRED AFTER FINAL HEAD AD	J (8.3.3.7.b)	=	
		OPTIONAL TE					COMPLETE UNIT TEST (8.3.4.4.1)		-	WIT
ADDITIO	NAL DATA RE	QUIRING 20 Y	EARS RETENTION	(8.2.1.1)			SOUND LEVEL TEST (8.3.4.5)		-	WIT
					YES		CLEANLINESS PRIOR TO FINAL ASSEMBLY	(8.2.2.6)	-	OBSERVE
		EQUIRED (9.1.3			NO		LOCATION OF CLEANLINESS INSPECTION			
		UIRED (9.3.9.2					NOZZLE LOAD TEST		-	
DYNAMI	C BALANCE R	OTOR (6.9.4.4)			YES		CHECK FOR CO-PLANAR MOUNTING PAD	SURFACES	-	
		PROPOSAL (1			YES		MECHANICAL RUN TEST UNTIL OIL TEMP		-	
			NSE ANALYSIS (5.9.2.3)	_	NO	4 HR. MECH RUN AFTER OIL TEMP STABLE	E (8.3.4.2.1)	-	WIT
TRANSIE	NT TORSIONA	L RESPONSE			NO		4 HR. MECH RUN TEST (8.3.4.2.2)			
BEARING	LIFE CALCUL	ATIONS REQU	IRED (6.10.1.6)				BRG HSG RESONANCE TEST (8.3.4.7)		-	
IGNITION	HAZARD ASS	SMT TO EN 134	63-1 (7.2.13.e)				STRUCTURAL RESONANCE TEST (9.3.9.2)		-	
CASING I	RETIREMENT	THICKNESS DE	RAWING (10.3.2.3)				REMOVE / INSPECT HYDRODYNAMIC BEAL	RINGS AFTER TES	T	
FLANGES	RQD IN PLAC	E OF SKT WEL	D UNIONS (7.5.2.8)				(9.2.7.5)		-	
INCLUDE	PLOTTED VIE	BRATION SPEC	TRA (6.9.3.3)				AUXILIARY EQUIPMENT TEST (8.3.4.6)			
CONNEC	TION BOLTING	G (7.5.1.7)					EQUIPMENT TO BE INCLUDED IN AUXILIA	RY TESTS	-	
CADMIU	M PLATED BO	LTS PROHIBIT	ED	<u></u>			LOCATION OF AUXILIARY EQUIPMENT TE	ST	-	<u></u>
VENDOR	TO KEEP REP.	AIR AND HT R	CDS (8.2.1.1.c)	•	IMPACT TEST	PER EN	N 13445			
VENDOR	SUBMIT TEST	PROCEDURE	8 (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		-	



خرید پکیج پمپ های آب آتشنشانی ایستگاه تقویت فشارگاز بینک (قرارداد ۱۹۰۰-BK-HD-GCS-CO)



شماره پیمان:

٠٥٣-٠٧٣-٩١٨٤

 DATA SHEETS (W/PERFORMANCE CURVE) FOR FIRE WATER MAIN DIESEL PUMP

 نسخه
 سریال
 نوع مدر که
 رشته
 تسهیلات
 صادر کننده
 بینه کاری
 پروژه

 BK
 GCS
 KP
 120
 ME
 DS
 0001
 V01

شماره صفحه: ۹ از ۱۶

CENTRIFUGAL PUMP DATA SHEET (SI UNIT) - P-2301 B (Sheet 6 of 6)										
		A DEGVON CODE PROPERTY.								
		L DESIGN CODE REFERENCES								
	BE LISTED BY THE MANUFACTURER									
CASTIN	IG 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 PR	EFERENCE IS STATED)		•						
ALTERNATE WELDING CODES AND STANDAR	DS									
WELDING REQUIREMENT (APPLICABLE CODE OR STANDARD) DEFAULT PER TABLE 11										
WELDER/OPERATOR QUALIFICATION			DEFAULT PER TABLE 11							
WELDING PROCEDURE QUALIFICATION NON-PRESSURE RETAINING STRUCTURAL WELDING SUCH AS BASEPLATES OR SUPPORTS DEFAULT PER TABLE 11 DEFAULT PER TABLE 11										
MAGNETIC PARTICLE OR LIQUID PENETRANT			DEFAULT PER TABLE 11							
POSTWELD HEAT TREATMENT			DEFAULT PER TABLE 11							
POSTWELD HEAT TREATMENT OF CASING FA	DDICATION WELDS		DEFAULT PER TABLE 11							
TOSTWEED HEAT INCAIMENT OF CASING PA	BRICATION WEEDS		DEFAULT FER TABLE II							
		RIAL INSPECTION								
THESE REFERENCES MUST BE LISTED BY THE			DEFAULT TO TABLE 14 YES							
	ACCEPTANCE CRITERIA (SEE TABLE 15) (8.2.2.5)									
TYPE OF INSPECTION	METHOD	FOR FABRICATIONS	FOR CASTINGS							
RADIOGRAPHY										
ULTRASONIC INSPECTION										
MAGNETIC PARTICLE INSPECTION										
LIQUID PENETRANT INSPECTION										
VISUAL INSPECTION (all surfaces)										
REMARKS:										
<u> </u>										
-										
-										
-										
-										
-										
<u> </u>										
-										



خرید پکیج پمپ های آب آتشنشانی ایستگاه تقویت فشارگاز بینک (قرارداد ۲۳_۰۰-BK-HD-GCS-CO)



شماره پیمان: ٤٨١٩-٣٧٠-٣٥٠

DATA SHEETS (W/PERFORMANCE CURVE) FOR FIRE WATER MAIN DIESEL PUMP سريال 0001 GCS V01 ME BK KP 120 DS

شماره صفحه: ۱۰ از ۱۶

			Dies	el Engine Data Sheet For Fire Wa	ater Pump - P-2301 B (SI UNIT) (1 of 4)			
SERVICE:	Fire Water Pumps	s - Diesel Engine Driven			MANUFACTURER:			VOLVO
FOR:	NISOC				MODEL NO:			TAD 1341
SITE:	BINAK Gas Comp	pressor Station			TYPE:			_
NO. REQUIRED:	1							
<u> </u>					(Note 1)		RE	EMARKS
OPERATING CONDITION			J					
DIESEL ENGINE MANUFA						_		
ISO POWER (ISO 3046)		kW	308			_		
ISO SPEED		rpm	1490			_		
SITE CONTINUOUS RATE		kW	275			_		
SITE CONTINUOUS RATE		rpm	1490			_		
OVERLOAD SITE POWER	₹	kW]			_		
OVERLOAD SPEED		rpm]			_		
OVERLOAD DURATION		h]			_		
DIRECTION OF ROTATIO	ON (FROM CPLG)	CW/CCW	ccw			_		
SPEED RANGE		±% rpm]			_		
IDLE SPEED		rpm	900			_		<u> </u>
LOADING TIME		s	10					
]					
PERFORMANCE]			_		
% OF MAX CONT SITE PO	OWER]					
FUEL SPECIFIC CONSUM	APTION	g/kWh]	-				
TOLERANCE		%]			_		
SPEED		rpm (NOTE 20)]	•				
LOAD ACCEPTANCE RAT	TING	% 1 step]	-				
		•]					
ENGINE DATA]			-		
CYCLE:- 2 STROKE/4 ST	TROKE]			4 STROK	KE REQUIRED	KPC:Confirmed
NUMBER OF CYLINDERS]			-		III C.Comminica
IN-LINE/V FORM]					
BORE/STROKE		mm]		<u> </u>	-		
CAPACITY		liters]			_		
BMEP (RATED)		uters]	-	 .	_		
		,]			_		
PISTON SPEED		m/s]			_		
COOLING SYSTEM: AIR/	/WATER		J				LOSED SYSTEM	KPC:Confirmed
]			(A	Air fan & Radiator)	
TURBOCHARGER: -]			_		
SINGLE OR SERIES]			_		
INTERCOOLER		CA or CW]			_		
]			_		
EMISSIONS]					
No _x EMISSION		g/kWh]	<u></u>		IP	PS-E-SF-860	KPC:Confirmed
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	Γ REFILLING	***]	-		-		
110. 5. 5	NE TELLITE]	-		-		
STARTING SYSTEM]					
ELECTRICAL:-]					YES
ELECTRICAL.]	-				TES
]					
NO. OF BATTERIES]			2 battery		ist of 20 x 200 ampere-hour batteries
]				(dual charger equ	ual to 100% of power)
]					
TYPE]				Nicke	el - Cadmium
TOTAL CAPACITY		Ah]					
STARTING CIRCUIT]					
STARTING MOTOR]					
ı 								



خرید پکیج پمپ های آب آتشنشانی ایستگاه تقویت فشار گاز بینک (قرارداد BK-HD-GCS-CO-۰۰۲۳-۰۰)



ناره پیمان:

3119-74-700

 DATA SHEETS (W/PERFORMANCE CURVE) FOR FIRE WATER MAIN DIESEL PUMP

 نیخه سریال نوع مدرک رشته نیمیلات صادر کننده بسته کاری پروژه

 BK
 GCS
 KP
 120
 ME
 DS
 0001
 V01

شماره صفحه: ۱۱ از ۱۶

HORDALLICE: ACCUMULATOR/MOTOR ACCUMULATOR/MOTOR NO OF STARTS PER 3 SEC CRANKS NO OF ACCUMULATORS BARRING SYSTEM MANUAL/ELEC/HYDRAULIC IF REQ'D LUBRICATION BY SUMP SYSTEM; PRESSURE Dar g / Kpa g OIL QUANTITY OIL CONSUMPTION PUMPS Main/Aux OIL FILTER:- CHANGE OVER WHILE RUNNING Reqd y/n FILTER:- TYPE Wet or dry NUMBER AIR CUT OFF SYSTEM ("RIG SAVER") EXHAUST SYSTEM ENGINE PIPE OUTLET SPARK ARRESTOR SUENCER BEPANSION JOINT ECHAUST MANIFOLD Cooling FUEL MAX STATIC HEAD ABOVE FUEL INLET FILTER CLEANABLE WHILE RUNNING Y/N SELF CLEANABLE WHILE RUNNING Y/N SELF CLEANABLE WHILE RUNNING Y/N SELF CLEANABLE WHILE RUNNING Y/N HEAT EMISSIONS TO COOLING SYSTEM KW TO AMBERT RW TO COOLING SYSTEM KW TO AMBERT KW TO MERCHANGEOVER WHILE RUNNING KW TO AMBERT KW TO MERCHANGEOVER WHILE RUNNING KW KW KW KW KM	MANUAL
ACCUMULATOR/MOTOR NO OF STARTS PER 5 SEC CRANKS NO OF ACCUMULATORS BARRING SYSTEM MANUAL/ELEC/HYDRAULIC IF REQ'D LUBRICATION DRY SUMP SYSTEM; - PRESSURE	MANUAL
NO OF STARTS PER 5 SEC CRANKS NO OF ACCUMULATORS BARRING SYSTEM MANUAL/ELEC/HYDRAULIC IF REQ'D LUBRICATION DRY SUMP SYSTEM, PRESSURE OIL QUANTITY OIL CONSUMPTION PUMPS Main/Aux OIL FILTER:- CHANGE OVER WHILE RUNNING Reqd y/n FILTER:- TYPE Wet or dry NUMBER AIR CUT OFF SYSTEM ("RIG SAVER") EXHAUST SYSTEM EXHAUST SYSTEM EXHAUST SYSTEM EXPANSION JOINT EXHAUST SAVER MAX STATIC HEAD ABOVE FUEL INLET FILTER CLEANABLE WHILE RUNNING FUEL MAX STATIC HEAD ABOVE FUEL INLET FILTER CLEANABLE WHILE RUNNING Y/N CHANGEOVER WHILE RUNNING Y/N CHANGEOVER WHILE RUNNING Y/N HEAT EMISSIONS TO COOLING SYSTEM KW TO AMBIENT KW WE WAS STATIC HEAD ASSIEM LONG LONG LONG LUBRICATION MAX STATIC HEAD ABOVE FUEL INLET FILTER CLEANAGE WHILE RUNNING Y/N HEAT EMISSIONS TO COOLING SYSTEM KW TO COOLING SYSTEM KW TO AMBIENT KW	MANUAL
NO OF ACCUMULATORS BARRING SYSTEM MANUAL/ELEC/HYDRAULIC IF REQ'D LUBRICATION DRY SUMP SYSTEM; - PRESSURE bar g / Kpa g OIL QUANTITY OIL CONSUMPTION g/kwh PUMPS Main/Aux OIL FILTER:- CHANGE OVER WHILE RUNNING Reqd y/n FILTER:- TYPE Wet or dry NUMBER AIR CUT OFF SYSTEM ("RIG SAVER") EXHAUST SYSTEM ENGINE PIPE OUTLET SPARK ARRESTOR SILENCER dBA @1m EXPANSION JOINT EXHAUST MANIFOLD Cooling FUEL MAX STATIC HEAD ABOVE FUEL INLET FILTER CLEANABLE WHILE RUNNING Y/N SELET CLEANABLE WHILE RUNNING Y/N CHANGEOVER WHILE RUNNING Y/N CHANGEOVER WHILE RUNNING Y/N CHANGEOVER WHILE RUNNING Y/N HEAT EMISSIONS TO COOLING SYSTEM kW TO AMBIENT KW	MANUAL
BARRING SYSTEM MANUAL/FLEC/HYDRAULIC IF REQ'D LUBRICATION DRY SUMP PSYSTEM; PRESSURE bar g / Kpa g OIL QUANTITY OIL CONSUMPTION g/kwh PUMPS Main/Alux OIL CHANGE OVER WHILE RUNNING Reqd y/n FILTER:- TYPE Wet or dry NUMBER AIR CUT OFF SYSTEM ("RIG SAVER") EXHAUST SYSTEM ENGINE PIPE OUTLET SPARK ARRESTOR SILENCER dBA @1m EXPANSION JOINT EXHAUST MANIFOLD Cooling FUEL MAX STATIC HEAD ABOVE FUEL INLET FILTER CLEANABLE WHILE RUNNING Y/N SHEP CLEANABLE WHILE RUNNING Y/N CHANGEOVER WHILE RUNNING Y/N HEAT EMISSIONS TO COOLING SYSTEM KW TO AMBIENT KW	MANUAL
MANUAL/ELEC/HYDRAULIC IF REQ'D LUBRICATION DRY SUMP SYSTEM; PRESSURE	MANUAL
UBRICATION RY SLIMP YSTEM: - PRESSURE bar g / Kpa g IIL QUANTITY IIL CONSUMPTION g / kwh UMPS Main/Aux IIL FILTER:- HANGE OVER WHILE RUNNING Reqd y/n ILLTER:- YPE Wet or dry UMBER IR CUT OFF SYSTEM ("RIG SAVER") XHAUST SYSTEM NGINE PIPE OUTLET PARK ARRESTOR ILLENCER dBA @1m XPANSION JOINT XHAUST MANIFOLD Cooling UEL AUX STATIC HEAD ABOVE FUEL INLET ILLTER CLEANABLE WHILE RUNNING Y/N LIER CLEANABLE WHILE RUNNING Y/N HANGEOVER WHILE RUNNING Y/N HANGEOVER WHILE RUNNING Y/N LIER CLEANABLE WHILE RUNNING Y/N LEET CLEANABLE WHILE RUNNING Y/N LEAT EMISSIONS O COOLING SYSTEM KW O AMBIENT KW	MANUAL
DRY SUMP PYSTEM; PRESSURE DIL QUANTITY DIL CONSUMPTION g/kwh PUMPS Main/Aux DIL FILTER:- CHANGE OVER WHILE RUNNING Reqd y/n Wet or dry HUMBER NIR CUT OFF SYSTEM ("RIG SAVER") EXHAUST SYSTEM NIGHER DIL COoling EXHAUST SYSTEM SURLENCE BABA @1m EXPANSION JOINT EXHAUST MANIFOLD Cooling FUEL MAX STATIC HEAD ABOVE FUEL INLET HITTER CLEANABLE WHILE RUNNING Y/N CHANGEOVER WHILE RUNNING WET TO COOLING SYSTEM KW TO CAMBIENT KW	
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SYSTEM;- PRESSURE bar g / Kpa g OIL QUANTITY OIL CONSUMPTION g / kwh PUMPS Main / Aux OIL FILTER:- CHANGE OVER WHILE RUNNING Reqd y / n FILTER:- TYPE Wet or dry NUMBER AIR CUT OFF SYSTEM ("RIG SAVER") EXHAUST SYSTEM ENGINE PIPE OUTLET SPARK ARRESTOR SILENCER dBA @1m EXPANSION JOINT EXHAUST MANIFOLD Cooling FUEL MAX STATIC HEAD ABOVE FUEL INLET FILTER CLEANABLE WHILE RUNNING Y / N SELF CLEANING Y / N CHANGEOVER WHILE RUNNING Y / N HEAT EMISSIONS TO COOLING SYSTEM KW TO AMBIENT KW	
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PUMPS Main/Aux DIL FILTER:- CHANGE OVER WHILE RUNNING Reqd y/n FILTER:- FYPE Wet or dry NUMBER MIR CUT OFF SYSTEM ("RIG SAVER") EXHAUST SYSTEM ENGINE PIPE OUTLET SPARK ARRESTOR SILENCER EXPANSION JOINT EXHAUST MANIFOLD Cooling FUEL MAX STATIC HEAD ABOVE FUEL INLET FILTER CLEANABLE WHILE RUNNING Y/N CHANGEOVER WHILE RUNNING Y/N HEAT EMISSIONS FO COOLING SYSTEM KW FO AMBIENT KEN COOLING SYSTEM KW FO AMBIENT KW FO AMBIENT KEN COOLING SYSTEM KW FO AMBIENT KW FO AMBIENT KEN COOLING SYSTEM KM KM FO AMBIENT KEN COOLING SYSTEM KM KM FO AMBIENT KM KM KM FO AMBIENT KM KM FO AMBIENT KM KM FO AMBIENT KM KM FO AMBIENT KM KM	
OIL FILTER:- CHANGE OVER WHILE RUNNING Reqd y/n FILTER:- TYPE Wet or dry NUMBER AIR CUT OFF SYSTEM ("RIG SAVER") EXHAUST SYSTEM ENGINE PIPE OUTLET SPARK ARRESTOR SILENCER BLENCER	
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FILTER:- TYPE Wet or dry NUMBER NIR CUT OFF SYSTEM ("RIG SAVER") EXHAUST SYSTEM ENGINE PIPE OUTLET EPARK ARRESTOR SILENCER dBA @1m EXPANSION JOINT EXHAUST MANIFOLD Cooling FUEL MAX STATIC HEAD ABOVE FUEL INLET FILTER CLEANABLE WHILE RUNNING Y/N ETHANGEOVER WHILE RUNNING Y/N ETHANGEOVER WHILE RUNNING Y/N HEAT EMISSIONS FO COOLING SYSTEM kW TO AMBIENT kW	
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TYPE Wet or dry NUMBER AIR CUT OFF SYSTEM ("RIG SAVER") EXHAUST SYSTEM EXHAUST SYSTEM ENGIRE PIPE OUTLET SPARK ARRESTOR SILENCER dBA @1m EXPANSION JOINT EXHAUST MANIFOLD Cooling FUEL MAX STATIC HEAD ABOVE FUEL INLET FILITER CLEANABLE WHILE RUNNING SELF CLEANING Y/N CHANGEOVER WHILE RUNNING Y/N HEAT EMISSIONS TO COOLING SYSTEM kW TO AMBIENT KENT OF MENT OF THE WET OF THE WE	TWO STAGE
NUMBER AIR CUT OFF SYSTEM ("RIG SAVER") EXHAUST SYSTEM ENGINE PIPE OUTLET SPARK ARRESTOR SILENCER	
AIR CUT OFF SYSTEM ("RIG SAVER") EXHAUST SYSTEM ENGINE PIPE OUTLET SPARK ARRESTOR SILENCER GEXPANSION JOINT EXHAUST MANIFOLD Cooling FUEL MAX STATIC HEAD ABOVE FUEL INLET FILTER CLEANABLE WHILE RUNNING TY/N CHANGEOVER WHILE RUNNING Y/N CHANGEOVER WHILE RUNNING Y/N CHANGEOVER WHILE RUNNING HEAT EMISSIONS TO COOLING SYSTEM KW TO AMBIENT KW	
EXHAUST SYSTEM ENGINE PIPE OUTLET SPARK ARRESTOR SILENCER	
ENGINE PIPE OUTLET SPARK ARRESTOR SILENCER	YES
ENGINE PIPE OUTLET EPARK ARRESTOR SILENCER BASE OF THE PIPE OUTLET SPARK ARRESTOR SILENCER BASE OF THE PIPE OUTLET SCHAUST MANIFOLD Cooling STUEL MAX STATIC HEAD ABOVE FUEL INLET SILTER CLEANABLE WHILE RUNNING Y/N SHANGEOVER WHILE RUNNING Y/N SHANGEOVER WHILE RUNNING WW TO COOLING SYSTEM KW	
SPARK ARRESTOR SILENCER	YES
SILENCER dBA @1m EXPANSION JOINT EXHAUST MANIFOLD Cooling FUEL MAX STATIC HEAD ABOVE FUEL INLET FILTER CLEANABLE WHILE RUNNING Y/N CHANGEOVER WHILE RUNNING Y/N CHANGEOVER WHILE RUNNING WW FO COOLING SYSTEM KW	YES
EXPANSION JOINT EXHAUST MANIFOLD Cooking FUEL MAX STATIC HEAD ABOVE FUEL INLET FILTER CLEANABLE WHILE RUNNING Y/N CHANGEOVER WHILE RUNNING Y/N CHANGEOVER WHILE RUNNING HEAT EMISSIONS TO COOLING SYSTEM kW TO AMBIENT KENNING	
EXHAUST MANIFOLD Cooling FUEL MAX STATIC HEAD ABOVE FUEL INLET FILTER CLEANABLE WHILE RUNNING Y/N CHANGEOVER WHILE RUNNING Y/N HEAT EMISSIONS TO COOLING SYSTEM KW TO AMBIENT KW	YES - 85
FUEL MAX STATIC HEAD ABOVE FUEL INLET FILTER CLEANABLE WHILE RUNNING Y/N HELF CLEANING Y/N CHANGEOVER WHILE RUNNING Y/N HEAT EMISSIONS TO COOLING SYSTEM KW TO AMBIENT KW	YES
MAX STATIC HEAD ABOVE FUEL INLET FILTER CLEANABLE WHILE RUNNING Y/N SELF CLEANING Y/N CHANGEOVER WHILE RUNNING Y/N HEAT EMISSIONS FO COOLING SYSTEM KW FO AMBIENT KW	PERSONNEL PROTECTIO
FILTER CLEANABLE WHILE RUNNING Y/N SELF CLEANING Y/N CHANGEOVER WHILE RUNNING Y/N HEAT EMISSIONS TO COOLING SYSTEM KW TO AMBIENT KW	
SELF CLEANING Y/N CHANGEOVER WHILE RUNNING Y/N HEAT EMISSIONS TO COOLING SYSTEM kW TO AMBIENT kW	
ELEF CLEANING Y/N CHANGEOVER WHILE RUNNING Y/N HEAT EMISSIONS TO COOLING SYSTEM KW TO AMBIENT KW	YES
CHANGEOVER WHILE RUNNING Y/N HEAT EMISSIONS FO COOLING SYSTEM KW FO AMBIENT KW	YES
TO COOLING SYSTEM kW TO AMBIENT kW	YES
TO COOLING SYSTEM kW CO AMBIENT kW	
TO AMBIENT kW	
THE AND INCTALLATION DATA	
ITE AND INSTALLATION DATA	
ALTITUDE m	
MBIENT TEMPERATURE MIN/MAX °C	5 / 50
DESIGN TEMPERATURE °C	52
HUMIDITY %	0 / 100
VIND SPEED km/h	
TMOSPHERIC AIR (DUST/FUMES)	
CORROSION BY	
OCATION:- INDOOR/OUTDOOR	OUTDOOR



خرید پکیج پمپ های آب آتشنشانی ایستگاه تقویت فشار گاز بینک (قرارداد ۵۰-۱۳۲۰)



ره پیمان:

٤٨١٤-٣٧٠-٩١٨٤

	DA	TA SHEETS (W/	PERFORMANC	E CURVE) FOR	FIRE WATER N	IAIN DIESEL PUMP	
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه
BK	GCS	KP	120	ME	DS	0001	V01

شماره صفحه: ۱۲ از ۱۶

	1		
			UNHEATED
			UNDER ROOF
			UNDER ROOF
	-		
			FROM FIRE WATER PUMP DISCHARGE
bar a / kBa a	-		
	-		
°C	-		
	-		
har σ / kPa σ	-	-	
	-		
	-		-
	-		
AC			
cD.			
			-
hrs			-
% weight			
			YES
			ENGINE SUPPLIER
hrs			AS PER NFPA 20
			OFF-SKID
			-
	-		
	-	_	
	-		
			TPG T2 TPD 400
			IPS-E-TP-100
			IPS-M-PM-290
	ALABA	CHITTOWN	THE M PM 400 CHANNA CO
	ALARM	SHUTDOWN	IPS-M-PM-290 SECTION 6.8. Remark: P&ID For Fire Water Network
		+	
		1	(No.BK-GCS-PEDCO-120-SA-PI-0001.)
		1	shall be followed.
	1		1
	-		
	% weight	bar / kPa C C C C C C C AC CP C Ars Ars % weight	bar / kPa / C / C / C / C / C / C / C / C / C /



تگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید پکیج پمپ های آب آتشنشانی ایستگاه تقویت فشارگاز بینک



ئماره بیمان:

DATA SHEETS (W/PERFORMANCE CURVE) FOR FIRE WATER MAIN DIESEL PUMP

٤٨١٩-٣٧٠-٣٥٠

L	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7							
	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه
	BK	GCS	KP	120	ME	DS	0001	V01

(قرارداد ۰۰-۲۳_۰۰) BK-HD-GCS

شماره صفحه: ۱۳ از ۱۶

BR GCS	KP 120 ME	DS 0001	VUT
n	Diesel Engine Data Sheet For Fire Water Pur	D 2201 D (ST UNIT) (4 of 4)	
D	Describing Data Sheet For Fire Water Ful	np - 1 - 2501 B (51 UN11) (4 01 4)	
NONE EVILLIST TURBOCK POER			
NGINE EXHAUST TURBOCHARGER			
	TE BEFORE/	PI BEFORE/	
	AFTER COOLER	AFTER COOLER	
IRCUIT OF:			
AW WATER	/	/	
RESH WATER	/	/	
IL	/	1	
JPERCHARGING:	,	· · · · · · · · · · · · · · · · · · ·	
	,		
IRSIDE	/	1	
'ATERSIDE	/	1	
EMARKS:			
For each pump set one 400V, 3PH/N auxiliary feeder is delivered	by purchaser.		
All required power for local control panel (230VAC/110VAC/24VDC)			
			_
-			
-			_
-			
-			_
-			-



KALAYE PUMP CO.

Performance curve





Item No.	P-2301 B	Pump Model	KPSPF 150-570	Flow,Rated (m^3/h)	454.2
Liquid	Water	Speed (rpm)	1490	Head (m)	105
Temp. (°c)	-3.5 / 53	Rated Imp.Dia. (mm)	530	Efficiency (%)	72
Density(kg/m ³)	997	Suction Size (Inch)	8	NPSHR (m)	3.5
Viscosity (cp)	1	Disch. Size (Inch)	6	Rated Power (kw)	180.5
NPSHA (m)	8.8	NSS (m³/h,m,rpm)	8498	Diesel Power (kw)	308

