



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



TBE FOR GAS COMPRESSORS

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

ME

نوع مدرک

TB

سریال

0001

نسخه

D02

شماره صفحه: ۱ از ۲۶

طرح نگهداشت و افزایش تولید ۲۷ مخزن

TBE FOR GAS COMPRESSORS

نگهداشت و افزایش تولید میدان نفتی بینک

D02	JUN.2022	IFI	H.Adineh	M.Fakharian	M.Mehrshad	
D01	MAR.2022	IFI	H.Adineh	M.Fakharian	M.Mehrshad	
D00	FEB.2022	IFI	H.Adineh	M.Fakharian	M.Mehrshad	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

Class: 4

CLIENT Doc. Number: F0Z-709218

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



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سطح الارض

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D02

شماره صفحه: ۲ از ۳۶



REVISION RECORD SHEET

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3	X	X	X		
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 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک								
	TBE FOR GAS COMPRESSORS								
	نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری		پروژه
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	D02	0001	TB	ME	120	PEDCO	GCS	BK	شماره صفحه: ۳ از ۳۶



REQ. NAME: Material Requisition for Gas Compressor package			BIDDER:	"A"		"B"		"C"		
REF. REQ. NO. : BK-GCS-PEDCO-120-ME-MR-0001			NAME:	Tajhiz Arg Parsian (TAPCO)		Compressor Sazi Tabriz		HAVAYAR		
EQUIPMENT TYPE: Reciprocating Compressor			QUOTATION NO:	TAP-99-04-18		CS2021-11-3/JA00846		HY/00/I/6667		
NO OF ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C			QUOTATION DATE:	5/14/2022		5/20/2022		5/22/2022		
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS	D02	MEETS TECHNICAL REQUIREMENT					
					TAPCO	STATUS	CST		STATUS	HAVAYAR
COMPRESSOR OPERATING / CONSTRUCTION										
	REFERENCE STANDARD		API 618	API-618, 5th	A	API-618, 5th	A	API-618, 5th	A	
	COMPRESSOR MODEL / TAG NO.		VTA / (C-2101 and C-2102) A/B/C	B252-250 S 5.6	A	4M20-25/4.9-54.8	A	KSOPTNL (C-2101 & C-2102A/B/C)	A	
	DRIVER TYPE / MODEL		Electric Motor	Electric Motor	A	Elec motor	A	Elec motor	A	
	NO OF STAGES		2	2	A	2	A	2	A	
	MANUFACTURER RATED CAPACITY	kg/hr	VTA	8276.9	A	8352	A	8343.5	A	
	MANUFACTURER RATED INLET VOLUME FLOW	Nm3/h	VTA	8690.2	A	8648	A	8668.6	A	
	CYLINDER CONSTRUCTION:(LUBE / NON LUBE)		Lube Type	Lube Type	A	Lube Type	A	Lube Type	A	
	CYLINDER TYPE (HORIZONTAL / VERTICAL / V TYPE)		Horizontal	Horizontal	A	Horizontal	A	Horizontal	A	
	COMPRESSOR THROWS(TOTAL NO. / NO. WITH CYLINDERS)		VTA	2/2	A	4/4	A	2/2	A	
	DRIVE SYSTEM (DIRECT/GEARED& COUPLED /V-BELT)		Direct	Direct	A	Direct	A	Direct	A	
	MAX. ACCEPTABLE AVERAGE PISTON SPEED	m/s	4	Yes	A	Yes	A	Yes	A	
	NO NEGATIVE TOLERANCE APPLIES		Yes	Yes	A	Yes	A	Yes	A	

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	TBE FOR GAS COMPRESSORS								
	نسخه	سریال	نوع مدرک	رشته	تجهیزات	صادر کننده	بسته کاری		پروژه
شماره پیمان: ۹۱۸۴ - ۰۷۳ - ۰۵۳	D02	0001	TB	ME	120	PEDCO	GCS	BK	شماره صفحه: ۴ از ۳۶



REQ. NAME: Material Requisition for Gas Compressor package			BIDDER:	"A"		"B"		"C"		
REF. REQ. NO. : BK-GCS-PEDCO-120-ME-MR-0001			NAME:	Tajhiz Arg Parsian (TAPCO)		Compressor Sazi Tabriz		HAVAYAR		
EQUIPMENT TYPE: Reciprocating Compressor			QUOTATION NO:	TAP-99-04-18		CS2021-11-3		HY/00/I/6667		
NO OF ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C			QUOTATION DATE:	2/5/2022		1/26/2022		1/10/2022		
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS	MEETS TECHNICAL REQUIREMENT						
				D02	TAPCO	STATUS	CST		STATUS	HAVAYAR
	OPERATING CONDITION									
	GAS HANDLED		Sour Gas (Gas Component as per project datasheet)	Yes	A		Yes	A	Yes	A
	INLET CONDITIONS (at inlet pulsation dampener /cylinder:)									
	Pressure	barg	As per project datasheet	Refer to the vendor proposal	A		Refer to the vendor proposal	A	Refer to the vendor proposal	A
	Tempreture	°C	As per project datasheet	Refer to the vendor proposal	A		Refer to the vendor proposal	A	Refer to the vendor proposal	A
	REQUIRED CAPACITY AT INLET TO COMPRESSOR (NNT)	kg/h	As per project datasheet	Refer to the vendor proposal	A		Refer to the vendor proposal	A	Refer to the vendor proposal	A
	REQUIRED CAPACITY AT INLET TO COMPRESSOR (NNT)	Nm3/h	As per project datasheet	Refer to the vendor proposal	A		Refer to the vendor proposal	A	Refer to the vendor proposal	A
	DISCHARGE CONDITIONS (At outlet from cylinder:)									
	Pressure	barg	VTA	Refer to the vendor proposal	A		Refer to the vendor proposal	A	Refer to the vendor proposal	A
	Relief valve set point	barg	VTA	Refer to the vendor proposal	A		Refer to the vendor proposal	A	Refer to the vendor proposal	A
	Tempreture predicated	°C	VTA	Refer to the vendor proposal	A		Refer to the vendor proposal	A	Refer to the vendor proposal	A
	Driver power required	kW	VTA	Refer to the vendor proposal	A		Refer to the vendor proposal	A	Refer to the vendor proposal	A

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	TBE FOR GAS COMPRESSORS								
	نسخه	سریال	نوع مدرک	رشته	تجهیزات	صادر کننده	بسته کاری		پروژه
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	D02	0001	TB	ME	120	PEDCO	GCS	BK	شماره صفحه: ۵ از ۳۶



REQ. NAME: Material Requisition for Gas Compressor package			BIDDER:	"A"		"B"		"C"		
REF. REQ. NO. : BK-GCS-PEDCO-120-ME-MR-0001			NAME:	Tajhiz Arg Parsian (TAPCO)		Compressor Sazi Tabriz		HAVAYAR		
EQUIPMENT TYPE: Reciprocating Compressor			QUOTATION NO:	TAP-99-04-18		CS2021-11-3		HY/00/I/6667		
NO OF ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C			QUOTATION DATE:	2/5/2022		1/26/2022		1/10/2022		
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS	D02	MEETS TECHNICAL REQUIREMENT					
					TAPCO	STATUS	CST		STATUS	HAVAYAR
	PROCESS CONTROL									
	Capacity Control by Means of:									
	- Recycle valve		Required (One spill back for each compressor)		Yes	A	Yes	A	Yes	A
	- Suction unloader		Required		Yes	A	Yes	A	Yes	A
	No. of steps		0-25-50-75-100		Yes	A	Yes	A	Yes	A
	Suction unloader type		Finger		Yes	A	Yes	A	Yes	A
	Action (Direct/Reverse)		Reverse		Yes	A	Yes	A	Yes	A
	-CLEARANCE POCKET (FIXED / VARIABLE)		VTA		Not required	CA	N/A	A	Fixed Clearance pocket	A
	CYLINDER DATA AT FULL LOAD CONDITIONS									
	No of cylinders per stage		VTA		1	A	2	A	1	A
	STROKE	mm	VTA		260	A	280	A	250	A
	Single/double acting		DA		DA	A	DA	A	DA	A
	Bore	mm	VTA		Stg1:500 / Stg2:285	A	Stg1:360 / Stg2:225	A	Stg1:475 / Stg2:280	A
	Piston Speed	mps	max. 4		3.64	A	Yes	A	3.5	A

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	TBE FOR GAS COMPRESSORS								
	نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری		پروژه
شماره پیمان: ۹۱۸۴ - ۰۷۳ - ۰۵۳	D02	0001	TB	ME	120	PEDCO	GCS	BK	شماره صفحه: ۶ از ۳۶



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EQUIPMENT TYPE: Reciprocating Compressor			QUOTATION NO:	TAP-99-04-18		CS2021-11-3		HY/00/I/6667			
NO OF ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C			QUOTATION DATE:	2/5/2022		1/26/2022		1/10/2022			
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS	D02	MEETS TECHNICAL REQUIREMENT						
					TAPCO	STATUS	CST		STATUS	HAVAYAR	
	Cylinder liner yes/no		Yes		Yes	A	Yes		A	Yes	A
	Suction valves quantity per cylinder		VTA		For 1st stage: 2 / For 2nd stage:1	A	For 1st stage: 2 / For 2nd stage:2		A	4	A
	Disch. Valves quantity per cylinder		VTA		For 1st stage: 2 / For 2nd stage:2	A	For 1st stage: 2 / For 2nd stage:3		A	4	A
	Rod diameter	mm	VTA		80	A	75		A	90	A
	Hydro test pressure	barg	1.5 x MAWP		Yes	A	Yes		A	Yes	A
	GAS LEAKAGE TEST PRESSURE,		1 x MAWP		Yes	A	Yes		A	Yes	A
	PISTON DISPLACEMENT	m3/h	VTA		2540 / 803	A	2844/1072.5		A	2192.71 / 735.77	A
	VOLUMETRIC EFFICIENCY	%	VTA		64,56/ 67,78	A	55.9/51.3		A	72.47 / 74.58	A
	COMPRESSOR CYLINDER ROD PACKING										
	Lube- Type		Yes		Yes	A	Yes		A	Yes	A
	VENTED TO FLARE OR ATM.		Flare		Yes	A	Yes		A	Yes	A
	WATER FILTER		Yes		Yes	A	Yes		A	Yes	

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EQUIPMENT TYPE: Reciprocating Compressor			QUOTATION NO:	TAP-99-04-18	CS2021-11-3	HY/00/I/6667				
NO OF ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C			QUOTATION DATE:	2/5/2022	1/26/2022	1/10/2022				
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS	D02	MEETS TECHNICAL REQUIREMENT					
					TAPCO	STATUS	CST	STATUS	HAVAYAR	STATUS
	VENT/BUFFER GAS SEAL PACKING ARRANGEMENT(FIG. I-1 , I-2 , I3)		Yes		Yes	A	Yes	A	Yes	A
	INERT BUFFER PURGE GAS (N2 / OTHER)		Yes		Yes	A	Yes	A	Yes	A
	DISTANCE PIECE									
	Type A /B /C /D		C		Type C	A	Type C	A	Type C	A
	CYLINDER COOLING SYSTEM									
	API Plan TYPE A /B / C / D		Plan D		Plan D	A	Plan D	A	Plan D	A
	Piping material		C.S as min.		Yes	A	Yes	A	Yes	A
MATERIAL										
	Frame		Cast Iron		Yes	A	Yes	A	Yes	A
	Cylinder / cylider liner		VTA		EN-GJSA-XNiMn23-4 (ASTM A571 D2M) / EN-GJSA-XNiMn23-4 (ASTM A571 D2M)	A	ASTM A395 60-40-18 / ASTM A395 60-40-18	A	Nodular Cast Iron / Cast Iron	A
	Piston		VTA		X5CrNi18-10 (1.4301)	A	ASTM A240 304	A	Nodular Cast Iron	A

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NO OF ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C			QUOTATION DATE:	2/5/2022		1/26/2022		1/10/2022		
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS	D02	MEETS TECHNICAL REQUIREMENT					
					TAPCO	STATUS	CST		STATUS	HAVAYAR
	piston rings		VTA		PTFE	A	PTFE	A	Filled PTFE	A
	Piston rod/ PISTON ROD COATING		Forged Alloy Steel (ASTM by vendor) / Coating: VTA		5CrNiCuNb 16-4 +P800/ Tungsten Carbide	A	AISI 420/high-frequency current hardening	A	Stainless Steel "Tc" Coating	A
	Pressure packing ring /spring/ casing		VTA		X20Cr13/Ni Alloys/X5CrNi18-10	A	PTFE/20Cr13(ASTM A276 420)/17-7PH	A	PTFE/SS/SS	A
	Crank shaft		Forged Steel		Forged Steel	A	Forged steel	A	Forged Steel	A
	Valve seat/discs/spring		VTA		X5CrNi18-10 / PEEK,NYLON / Ni-Alloys	A	20Cr13(ASTM A276 420)/PEEK/20Cr13(ASTM A276 420)	A	SS/PEEK/Inconel	A
	Connecting Rod		Forged Steel		Forged Steel	A	Forged Steel	A	Forged Steel	A
	Croshead /crosshead shoes		VTA		GE 240 /EN-GJS-400-15	A	ZG230-450(ASTM A27 65-35)/15ChSnSb11-6	A	Cast Steel / Cast Iron "Wj2" Coating	A
	CROSSHEAD PIN BUSHING		VTA		C10 / WM	A	bronze+babbitt	A	---	IN
	MAIN JOURNAL BEARING, CRANKSHAFT		VTA		C10/WM	A	bronze+babbitt	A	---	IN
	NACE REQUIREMENTS		NACE MR-0175		Yes	A	Yes	A	Yes	A

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شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	PEDCO	120	ME	TB	0001	D02	شماره صفحه: ۹ از ۳۶

REQ. NAME: Material Requisition for Gas Compressor package			BIDDER:		"A"		"B"		"C"		
REF. REQ. NO. : BK-GCS-PEDCO-120-ME-MR-0001			NAME:		Tajhiz Arg Parsian (TAPCO)		Compressor Sazi Tabriz		HAVAYAR		
EQUIPMENT TYPE: Reciprocating Compressor			QUOTATION NO:		TAP-99-04-18		CS2021-11-3		HY/00/I/6667		
NO OF ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C			QUOTATION DATE:		1/25/2022		1/26/2022		1/10/2022		
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS	D02	MEETS TECHNICAL REQUIREMENT						
					TAPCO	STATUS	CST		STATUS	HAVAYAR	
COOLANT SYSTEM											
	PRESSURE FORCED CIRCULATING SYSTEM (OPEN /CLOSED)		Closed		Closed	A	Closed	A	Closed		A
	BASIC COOLING SYSTEM FOR:										
	COMPRESSOR CYLINDER		Yes		Yes	A	Yes	A	Yes		A
	ROD PACKING		Yes		Yes	A	Yes	A	Yes		A
	PROCESS COOLER		N/A		N/A	A	N/A	A	N/A		A
	OIL COOLERS		N/A (To be cooled with a separate air cooler)		Yes	A	Yes	A	Yes		A
	HEATERS REQUIRED FOR PRE HEATING		Yes		Yes	A	Yes	A	Yes		A
	HEATER TYPE (ELECTRIC, STEAM)		Electrical		Yes	A	Yes	A	Yes		A
	CLOSED SYSTEM										
	Main COOLANT pump driven by		Electric motor		Yes	A	Yes	A	Yes		A
	Auxiliary COOLANT pump driven by		Electric motor		Yes	A	Yes	A	Yes		A
	Console for COOLANT SYSTEM		Required		Yes	A	Yes	A	Yes		A
	COOLANT RESERVOIR:										

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	TBE FOR GAS COMPRESSORS								
	نسخه	سریال	نوع مدرک	رشته	تجهیزات	صادر کننده	بسته کاری		پروژه
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REQ. NAME: Material Requisition for Gas Compressor package			BIDDER:	"A"		"B"		"C"			
REF. REQ. NO. : BK-GCS-PEDCO-120-ME-MR-0001			NAME:	Tajhiz Arg Parsian (TAPCO)		Compressor Sazi Tabriz		HAVAYAR			
EQUIPMENT TYPE: Reciprocating Compressor			QUOTATION NO:	TAP-99-04-18		CS2021-11-3		HY/00/I/6667			
NO OF ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C			QUOTATION DATE:	2/5/2022		1/26/2022		1/10/2022			
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS	D02	MEETS TECHNICAL REQUIREMENT						
					TAPCO	STATUS	CST		STATUS	HAVAYAR	
	RESERVOIR MATERIAL		VTA		CS	A	CS		A	CS	A
	INSPECTION OPENENING		Yes		Yes	A	Yes		A	Yes	A
	DRAIN VALVE		Yes		Yes	A	Yes		A	Yes	A
	LEVEL GAGE / TRANSMITTER		Yes		Yes	A	Yes		A	Yes	A
	PUMPS (CENTRIFUGAL ONLY)										
	CASING MATERIAL		VTA		Cast Iron	A	Cast Iron		A	CS or CI	A
	COOLANT HEAT EXCHANGER										
	Air Cooled		As per API 661		Yes	A	Yes		A	Yes	A
	With by-pass control valve		Yes		Yes	A	Yes		A	Yes	A
	FILTER (125 micron)		Yes (for packing)		Yes	A	Yes		A	Yes	A
FRAME LUBE OIL SYSTEM											
	Main oil pump driven by crankshaft/electric motor		Shaft Driven		Shaft Driven	A	Shaft Driven		A	Shaft Driven	A
	Auxiliary oil pump driven by electric motor		Yes		Yes	A	Yes		A	Yes	A

 NISOC	تجهداشت و افزايش توليد ميدان نفتي بينک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک							
	TBE FOR GAS COMPRESSORS							
	نسخه	سرپال	نوع مدرک	رشته	تجهيزات	صادرکننده	بسته کاری	
شماره پیمان: ۹۱۸۴ - ۰۷۳ - ۰۵۳	D02	0001	TB	ME	120	PEDCO	GCS	BK

NISOC

سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR GAS COMPRESSORS

پروژه

بسته کاری

صادر کنندہ

تسهيلات

رشته

ع مدرک

سویاں



نسخه

شماره پیمان:



9184-073-053

شماره صفحه: ۱۲ از ۲۶




[illegible]

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک								
	TBE FOR GAS COMPRESSORS								
	نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری		پروژه
شماره پیمان: ۹۱۸۴ - ۰۷۳ - ۰۵۳	D02	0001	TB	ME	120	PEDCO	GCS	BK	شماره صفحه: ۱۴ از ۲۶

REQ. NAME: Material Requisition for Gas Compressor package			BIDDER:	"A"		"B"		"C"		
REF. REQ. NO. : BK-GCS-PEDCO-120-ME-MR-0001			NAME:	Tajhiz Arg Parsian (TAPCO)		Compressor Sazi Tabriz		HAVAYAR		
EQUIPMENT TYPE: Reciprocating Compressor			QUOTATION NO:	TAP-99-04-18		CS2021-11-3		HY/00/I/6667		
NO OF ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C			QUOTATION DATE:	2/5/2022		1/26/2022		1/10/2022		
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS	D02	TAPCO	STATUS	MEETS TECHNICAL REQUIREMENT			
							CST	STATUS	HAVAYAR	STATUS
	INTER COOLER / AFTER COOLER		N/A		N/A		N/A		N/A	
	SHELL AND TUBE TYPE									
	DESIGN CODE		N/A		N/A		N/A		N/A	
	TEMA TYPE / CLASS		N/A		N/A		N/A		N/A	
	MATERIALS OF CONTRUCTION / CA :		N/A		N/A		N/A		N/A	
	SHELL AND TUBE		N/A		N/A		N/A		N/A	
ELECTRICAL										
	SELECTED MOTOR POWER RATING		VTA		1000 KW	A	1000 KW	A	1050 KW	A
	VOLTS / PHASE / HZ		Main Driver: 11kV/3phase/50 Hz		Yes	A	Yes	A	Yes	A
	IP PROTECTION / INSULATION CLASS / TEMP RISE		IP55/ F/B		Yes	A	IP55/ F/B	A	Yes	A
	AREA CLASSIFICATION (Ex PROTECTION: FRAME / TERMINAL)		EX		As per TCL	A	As per TCL	A	As per TCL	A
	START METHOD / SERVICE FACTOR		D.O.L.		Yes	A	Yes	A	Yes	A
	MAX STARTING CURRENT (RATIO TO NORMAL)									
	COOLING METHOD (TEFC,....)		Air Cooled		Yes	A	Yes	A	IC611	

 NISOC	<div>نگهداشت و افزایش تولید میدان نفتی بینک</div> <div>سطح الارض</div> <div>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</div>								
	TBE FOR GAS COMPRESSORS								
	نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه	
شماره پیمان: ۹۱۸۴ - ۰۷۳ - ۰۵۳	D02	0001	TB	ME	120	PEDCO	GCS	BK	شماره صفحه: ۱۶ از ۲۶

REQ. NAME: Material Requisition for Gas Compressor package			BIDDER:	"A"		"B"		"C"		
REF. REQ. NO. : BK-GCS-PEDCO-120-ME-MR-0001			NAME:	Tajhiz Arg Parsian (TAPCO)		Compressor Sazi Tabriz		HAVAYAR		
EQUIPMENT TYPE: Reciprocating Compressor			QUOTATION NO:	TAP-99-04-18		CS2021-11-3		HY/00/I/6667		
NO OF ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C			QUOTATION DATE:	2/5/2022		1/26/2022		1/10/2022		
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS	MEETS TECHNICAL REQUIREMENT						
				TAPCO	STATUS	CST		STATUS	HAVAYAR	
	Instrument Transmitter / SWITCH		4-20 mA Hart(Eexia)/ 24 VDC(EEXD) As per project requirement	Yes	A	Yes		A	Yes	A
	Protocol of Serial Link to DCS		redundant Mod Bus RTU or TCP/IP (As per project requirement)	Modbus TCP-IP	A	As per project requirement		A	Yes	A
	Industrial Work station/ lap top / software and licence,		As per project requirement	---	INA	---		INA	Yes	A
	Control and protection system (for Capacity Control, Load Sharing, VMS, Safe start, safe stop,safe operation and etc.)		Required and shall be supplied by vendor One UCP Common for all 3 compressors, As per project requirement	Yes	A	Yes		A	Yes	A
	LCP and Gauge board		required for each train As per project requirement	Yes	A	Yes		A	Yes	A
	SIL requirements for control and protection system		SIL study shall be done by vendor. Min SIL 3 for protection and ESD loops are requestedSIL3	Yes	A	Yes		A	Yes	A
	PLC model / manufacaturer□	D02	suitable hot redundant/ high available system to meet project requirements	YES (Using iraninan to be confirmed by vendor later)	A	YES (Using iraninan to be confirmed by vendor later)		A	YES (Using iraninan to be confirmed by vendor later)	A
	Ingress Protection for cabinet		As per Final TCL after Meeting	---	INA	---		NA	---	IN

 NISOC	<div>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض</div> <div>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</div>							<div> شرکت تولید و پتروشیمی ایران</div> <div></div>	
	TBE FOR GAS COMPRESSORS								
	نسخه	سریال	نوع مدرک	رشته	تجهیزات	صادر کننده	بسته کاری		پروژه
شماره پیمان: ۹۱۸۴-۰۷۳-۰۵۳	D02	0001	TB	ME	120	PEDCO	GCS	BK	شماره صفحه: ۱۷ از ۳۹

NISOC

سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR GAS COMPRESSORS

۵۳۹۲

کاری

صادر کنندہ

سہلات

و شته

مذہب

سے فائدہ

نسخه



شماره پیمان:

9184-073-053



شماره صفحه: ۱۷ از ۲۶





REQ. NAME: Material Requisition for Gas Compressor package			BIDDER:	"A"		"B"		"C"	
REF. REQ. NO. : BK-GCS-PEDCO-120-ME-MR-0001			NAME:	Tajhiz Arg Parsian (TAPCO)		Compressor Sazi Tabriz		HAVAYAR	
EQUIPMENT TYPE: Reciprocating Compressor			QUOTATION NO:	TAP-99-04-18		CS2021-11-3		HY/00//6667	
NO OF ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C			QUOTATION DATE:	2/5/2022		1/26/2022		1/10/2022	
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS	MEETS TECHNICAL REQUIREMENT					
				TAPCO	STATUS	CST	STATUS	HAVAYAR	STATUS
	POWER SUPPLY (CONTROL PANEL / LIGHT & SOCKET)		Redundant UPS 110VAC supply for system and 230 VAC non UPS for light/fan/socket	Yes	A	110VAC/230 VAC	A	Yes	A
	Machine Monitoring System(VMS and RTD connected to UCP)		As per TCL	---	INA	Yes	A	Yes	A
	ELECTRICAL CLASSIFICATION & IP DEGREE:								
	INSTRUMNETS		Zone 2 IIBT4(Eexia or Eexd) and IP 65 minimum.	Yes	A	Yes	A	Exd IIC T4 IP65	A
	LOCAL PANEL / GAUGE BOARD		Zone 2 IIBT4(Eexia or Eexd) and IP 65 minimum.	---	INA	Yes	A	As per TCL & Clarification	A
	Instrument Hook-up Tubing,Piping,Manifold,block valves,Fittings and accessories		Required and shall be supplied by vendor	Yes	A	Yes	A	Yes	A
	Sunshade		FOR LCP, FOR OTHER ITEMS	Yes	A	No need (under shelter skid)		Not required for under shelter	A
	JUNCTION BOX: Ex PROTECTION / COMPLETE WITH GLANDS		Required and shall be supplied by vendor	Yes	A	---	INA	Yes	A
	Instrument Cables to Junction Boxes/Local Panels and related Cable Glands		Required and shall be supplied by vendor	Yes	A	yes	A	Yes	A
	Special Cables from compressor to UCP		Shall be supplied by vendor if required	N/A	A	N/A	A	Yes	A
INSTRUMENTATION									

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک								
	TBE FOR GAS COMPRESSORS								
	نسخه	سریال	نوع مدرک	رشته	تجهیزات	صادر کننده	بسته کاری		پروژه
شماره پیمان: ۹۱۸۴ - ۰۷۳ - ۰۵۳	D02	0001	TB	ME	120	PEDCO	GCS	BK	شماره صفحه: ۱۸ از ۲۶



REQ. NAME: Material Requisition for Gas Compressor package			BIDDER:	"A"		"B"		"C"	
REF. REQ. NO. : BK-GCS-PEDCO-120-ME-MR-0001			NAME:	Tajhiz Arg Parsian (TAPCO)		Compressor Sazi Tabriz		HAVAYAR	
EQUIPMENT TYPE: Reciprocating Compressor			QUOTATION NO:	TAP-99-04-18		CS2021-11-3		HY/00/I/6667	
NO OF ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C			QUOTATION DATE:	2/5/2022		1/26/2022		1/10/2022	
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS	MEETS TECHNICAL REQUIREMENT					
				TAPCO	STATUS	CST	STATUS	HAVAYAR	STATUS
	Instrumentation for Machine Protection		Required and shall be supplied by vendor As per API 670 figure H.6 (as min)	Yes	A	Yes	A	As per API 670 figure H.6	A
	BEARING TEMPERATURE SENSOR		Required and shall be supplied by vendor	Yes	A	Yes	A	As per API 670 figure H.6	A
	WINDING TEMPERATURE SENSOR		Required and shall be supplied by vendor	Yes	A	Yes	A	As per API 670 figure H.6	A
	VIBRATION SENSOR		Required and shall be supplied by vendor	Yes	A	Yes	A	As per API 670 figure H.6	A
	COMPRESSOR'S VALVE TEMP. SENSOR		VTA	Yes	A	No	A	As per API 670 figure H.6	A
	ROD DROP DETECTOR (PROXIMITY OR CONTACT)		Required and shall be supplied by vendor	Yes	A	Yes	A	As per API 670 figure H.6	A
	PISTON ROD PACKING TEMP. DETECTOR		VTA	Yes	A	No	A	As per API 670 figure H.6	A
	PHASE REFERENCE PROBE (KEYPHASOR)		Required and shall be supplied by vendor	Yes	A	Yes	A	As per API 670 figure H.6	A
	PROBES WIRED UPTO LOCAL JB AT EDGE OF SKID		Required and shall be supplied by vendor	Yes	A	Yes	A	Yes	A
	COMPLETE MONITORING SYSTEM REQUIREMENT		As per TCL	Yes	A	as per TCL	A	As per API 670 figure H.6	
	VIBRATION SENSOR ON EACH CYLINDER		VTA	As per API 670 figure H.6	A	As per API 670 figure H.6	A	As per API 670 figure H.6	A
	LOCAL CONTROL STATION / PANEL & CABLE GLAND		Required and shall be supplied by vendor	Yes	A	qouted	A	Confirmed	A
	Instrumentation for Lube Oil system		Required and shall be supplied by vendor	Yes	A	Yes	A	Yes	A
	Instrumentation for Cooling Water System		Required and shall be supplied by vendor	Yes	A	Yes	A	Yes	

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک								
	TBE FOR GAS COMPRESSORS								
	نسخه	سریال	نوع مدرک	رشته	تجهیزات	صادر کننده	بسته کاری		پروژه
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	PEDCO	120	ME	TB	0001	D02	شماره صفحه: ۱۹ از ۲۶



REQ. NAME: Material Requisition for Gas Compressor package			BIDDER:	"A"		"B"		"C"		
REF. REQ. NO. : BK-GCS-PEDCO-120-ME-MR-0001			NAME:	Tajhiz Arg Parsian (TAPCO)		Compressor Sazi Tabriz		HAVAYAR		
EQUIPMENT TYPE: Reciprocating Compressor			QUOTATION NO:	TAP-99-04-18		CS2021-11-3		HY/00/I/6667		
NO OF ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C			QUOTATION DATE:	2/5/2022		1/26/2022		1/10/2022		
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS	D02	MEETS TECHNICAL REQUIREMENT					
					TAPCO	STATUS	CST	STATUS	HAVAYAR	STATUS
	Loose instrument and spill back valve as per project P&ID		Required and shall be supplied by vendor		---	INA	---	INA	As per TCL	A
	control signal for bandery valves through UCP as per preject P&ID		Required and shall be supplied by vendor		---	INA	---	INA	---	INA
	All Other required Instruments as per project requirements		Required and shall be supplied by vendor		Yes	A	Yes	A	Yes	A
	Scope of supply on 2oo3 Voting for Pressure & Temperature Transmitter:		as per project data sheet and P&ID		see PID	A	see PID	A	see PID	A
	Suction Pressure Low Low (First stage)		as per project data sheet and P&ID		see PID	A	see PID	A	see PID	A
	Discharge Pressure High High (Final stage)		as per project data sheet and P&ID		see PID	A	see PID	A	see PID	A
	Discharge Pressure High High (inter stage)		as per project data sheet and P&ID		see PID	A	see PID	A	see PID	A
	Discharge Temperature High High (Each stage)		as per project data sheet and P&ID		see PID	A	see PID	A	see PID	A
	Lube oil Pressure Low Low		as per project data sheet and P&ID		see PID	A	see PID	A	see PID	A
TEST & INSPECTION										
	Inspection and test to be performed as per project requirement in datasheet, specification and other project documents as minimum		Required and shall be done by vendor		Yes	A	Yes	A	Confirmed (refer to TCL)	A
	Hydrostatic Test		Required and shall be done by vendor		Yes	A	Yes	A	Yes	A
	Leak test Test / Helium test		Required and shall be done by vendor		Yes	A	Yes	A	Yes	A

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک								
	TBE FOR GAS COMPRESSORS								
	نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری		پروژه
شماره پیمان: ۹۱۸۴ - ۰۷۳ - ۰۵۳	D02	0001	TB	ME	120	PEDCO	GCS	BK	شماره صفحه: ۲۶ از ۲۰



REQ. NAME: Material Requisition for Gas Compressor package			BIDDER:	"A"		"B"		"C"		
REF. REQ. NO. : BK-GCS-PEDCO-120-ME-MR-0001			NAME:	Tajhiz Arg Parsian (TAPCO)		Compressor Sazi Tabriz		HAVAYAR		
EQUIPMENT TYPE: Reciprocating Compressor			QUOTATION NO:	TAP-99-04-18		CS2021-11-3		HY/00/I/6667		
NO OF ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C			QUOTATION DATE:	2/5/2022		1/26/2022		1/10/2022		
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS	MEETS TECHNICAL REQUIREMENT						
				D02	TAPCO	STATUS	CST	STATUS	HAVAYAR	STATUS
	Mech Run test (4hr)		Required and shall be done by vendor		Yes	A	Yes	A	Yes	A
	Sound Level Test		Required and shall be done by vendor		Yes	A	Yes	A	Yes	A
	Dismantling Inspection After Running Test		Required and shall be done by vendor		Yes	A	Yes	A	NO	N
	BAR-OVER TO CHECK ROD RUNOUT		Required and shall be done by vendor		Yes	A	Yes	A	NO	N
	CYL. JACKET WATER HYDRO TEST		Required and shall be done by vendor		Yes	A	Yes	A	Yes	A
	LUBE OIL CONSOLE RUN TEST		Required and shall be done by vendor		Yes	A	Yes	A	Yes	A
	ACTUAL. RUNNING CLEARANCES&ND RECORDS		Required and shall be done by vendor		Yes	A	Yes	A	NO	N
	COOLING H2O CONSOLE RUN TEST		Required and shall be done by vendor		Yes	A	Yes	A	Yes	A
	CLEANLINESS OF EQUIP., PIPING, &APPURTENANCES		Required and shall be done by vendor		Yes	A	Yes	A	Yes	A
	SHOP FIT-UP OF PULSATION SUPPL. DEVICES & ALL ASSOCIATED GAS		Required and shall be done by vendor		Yes	A	Yes	A	Yes	A
	HARDNESS OF PARTS, WELDS & HEAT AFFECTED ZONES		Required and shall be done by vendor		Yes	A	certificate only	A	Yes as applicable. (Will be finalized after PO during PIM)	A
OTHER GENERL REQUIRMENTS										
	Scope of Supply and Work		Vendor scope of supply and work to be followed by vendor As per MR, its attachment and TCL		Yes	A	Yes	A	Yes	A

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک								
	TBE FOR GAS COMPRESSORS								
	نسخه	سرمال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری		پروژه
شماره پیمان: ۹۱۸۴ - ۰۷۳ - ۰۵۳	D02	0001	TB	ME	120	PEDCO	GCS	BK	شماره صفحه: ۲۶ از ۲۱



REQ. NAME: Material Requisition for Gas Compressor package			BIDDER:	"A"		"B"		"C"		
REF. REQ. NO. : BK-GCS-PEDCO-120-ME-MR-0001			NAME:	Tajhiz Arg Parsian (TAPCO)		Compressor Sazi Tabriz		HAVAYAR		
EQUIPMENT TYPE: Reciprocating Compressor			QUOTATION NO:	TAP-99-04-18		CS2021-11-3		HY/00/I/6667		
NO OF ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C			QUOTATION DATE:	2/5/2022		1/26/2022		1/10/2022		
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS	MEETS TECHNICAL REQUIREMENT						
				D02	TAPCO	STATUS	CST		STATUS	HAVAYAR
	Torsional analysis		Required and to be done by vendor		Yes	A	yes	A	Yes	A
	The guarantee period twelve (12) months from start-up or eighteen (18) months from delivery date.		To be followed by vendor		Yes	A	yes	A	Yes	A
	References List		as per MR		Yes	A	yes	A	Yes	A
	UTILITY DATA AS PER PROJECT SPECIFICATION		Project specification to be followed by vendor		Yes	A	Noted	A	Yes	A
	SITE DATA AS PER PROJECT SPECIFICATION		Project specification to be followed by vendor		Yes	A	Noted	A	Yes	A
	LOOSE ITEMS AND RELATED SCOPE		as per MR, its attachment and TCL Required and to be supplied by vendor		Yes	A	as per TCL	A	Yes	A
	BASEPLATE / SKID		Required and to be supplied by vendor		Yes (motor is seperated)	A	Not supported by skid	A	Yes (motor is seperated)	A
	MAX ALLOWABLE NOISE LEVEL		Less than 85dBA @ 1m To be followed by vendor		Yes	A	Yes	A	Yes	A
	INSULATION		Shall be supplied by vendor if required in BL		Yes	A	Yes	A	Yes	A
	Heat Tracing		Shall be supplied by vendor if required in BL		Yes	A	Yes	A	Yes	A
	On Skid Piping		Shall be supplied by vendor As per MR and TCL		Yes	A	Not supported by skid	A	Yes	A

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک								
	TBE FOR GAS COMPRESSORS								
	نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری		پروژه
شماره پیمان: ۹۱۸۴ - ۰۷۳ - ۰۵۳	D02	0001	TB	ME	120	PEDCO	GCS	BK	شماره صفحه: ۲۶ از ۲۲



REQ. NAME: Material Requisition for Gas Compressor package			BIDDER:	"A"		"B"		"C"		
REF. REQ. NO. : BK-GCS-PEDCO-120-ME-MR-0001			NAME:	Tajhiz Arg Parsian (TAPCO)		Compressor Sazi Tabriz		HAVAYAR		
EQUIPMENT TYPE: Reciprocating Compressor			QUOTATION NO:	TAP-99-04-18		CS2021-11-3		HY/00/I/6667		
NO OF ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C			QUOTATION DATE:	2/5/2022		1/26/2022		1/10/2022		
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS	MEETS TECHNICAL REQUIREMENT						
				TAPCO	STATUS	CST		STATUS	HAVAYAR	
	Between Skid Piping		Shall be supplied by vendor As per MR and TCL	Yes	A	Yes		A	Yes	A
	SPREADER BAR / FRAME C/W SHACKLES AND ROPES		Required and to be supplied by vendor	Yes	A	Yes		A	Yes	A
	SPECIAL TOOLS		Required and to be supplied by vendor	Yes	A	Yes		A	Yes	A
	INSTALLATION MATERIAL (ANCHOR BOLT, SHIM PLATE, JACK SCREW, ...)		Required and to be supplied by vendor	Yes	A	Yes		A	Yes	A
	COMMISSIONING, START UP SPARE PARTS (as min as per project spare part list)		Required and to be supplied by vendor	Yes	A	Yes		A	Yes	A
	2-YEAR OPERATION SPARE PARTS (as min as per project spare part list)		Required and to be supplied by vendor (As Option)	Yes	A	Yes		A	Yes	A
	Capital Spares		as per MR	Yes	A	N/A		A	N/A	A
	PACKING, MARKING AND PRESERVATION		Required and to be provided by vendor As per MR and TCL	Yes	A	Yes		A	Yes	A
	LIST OF DEVIATIONS / EXCEPTIONS		As per TCL	Yes	A	Yes		A	Yes	A
	SUB-VENDORS LIST		Project AVL shall be followed by vendor	Yes	A	See subvendor list		CA	Yes	A
	PAINTING AS PER PROJECT SPECIFICATION (SS NOT PAINTED)		Shall be done by vendor As per project spec.	Yes	A	Mfr std		CA	Yes	A

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک								
	TBE FOR GAS COMPRESSORS								
	نسخه	سرمال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری		پروژه
شماره پیمان: ۹۱۸۴ - ۰۷۳ - ۰۵۳	BK	GCS	PEDCO	120	ME	TB	0001	D02	شماره صفحه: ۲۶ از ۲۳

REQ. NAME: Material Requisition for Gas Compressor package			BIDDER:	"A"		"B"		"C"	
REF. REQ. NO. : BK-GCS-PEDCO-120-ME-MR-0001			NAME:	Tajhiz Arg Parsian (TAPCO)		Compressor Sazi Tabriz		HAVAYAR	
EQUIPMENT TYPE: Reciprocating Compressor			QUOTATION NO:	TAP-99-04-18		CS2021-11-3		HY/00/I/6667	
NO OF ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C			QUOTATION DATE:	2/5/2022		1/26/2022		1/10/2022	
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS	MEETS TECHNICAL REQUIREMENT					
				TAPCO	STATUS	CST	STATUS	HAVAYAR	STATUS
	PICKLING AND PASSIVATION		Shall be done by vendor As per project requirement.	If applicable	A	if applicable	A	if applicable	A
	TRANSPORTATION LIMITS CONSIDERED		as per MR	Yes	A	Yes	A	Yes	A
	ESTIMATED TOTAL WEIGHT (Ton)		VTA	To be provided later	A	To be provided later	A	To be provided later	A
	NAME PLATE		Required and to be supplied by vendor	Yes	A	Yes	A	Yes	A
	SHOP AND FIELD TRAINING (PER DIEM)		To be done by vendor (As Option)	Yes	A	Yes	A	Yes	A
	SUPERVISION FOR INSTALLATION (PER DIEM)		To be done by vendor (As Option)	Yes	A	Yes	A	Yes	A
	SUPERVISION FOR ERECTION, COMMISSIONING AND START UP (PER DIEM)		To be done by vendor (As Option)	Yes	A	Yes	A	Yes	A
	COMPLETE UNIT TEST AT SITE		To be done by vendor (As Option)	Yes	A	Yes	A	Yes	A
	PERFORMANCE TEST AT SITE		To be done by vendor (As Option)	Yes	A	Yes	A	Yes	A
	WIRING AND TUBING TO JUNCTION BOX WITHIN BASEPLATE(S)		Required and to be supplied by vendor	Yes	A	Yes	A	Yes	A
	Coupling		Dry, flexible metallic disc coupling with spacer Required and to be supplied by vendor	Yes	A	Yes	A	Yes	A
	Coupling Guard		Non-spark guard Required and to be supplied by vendor	Yes	A	Yes	A	Yes	A

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک								
	TBE FOR GAS COMPRESSORS								
	نسخه	سریال	نوع مدرک	رشته	تجهیزات	صادر کننده	بسته کاری		پروژه
شماره پیمان: ۹۱۸۴ - ۰۷۳ - ۰۵۳	D02	0001	TB	ME	120	PEDCO	GCS	BK	شماره صفحه: ۲۶ از ۲۴

REQ. NAME: Material Requisition for Gas Compressor package			BIDDER:	"A"		"B"		"C"		
REF. REQ. NO. : BK-GCS-PEDCO-120-ME-MR-0001			NAME:	Tajhiz Arg Parsian (TAPCO)		Compressor Sazi Tabriz		HAVAYAR		
EQUIPMENT TYPE: Reciprocating Compressor			QUOTATION NO:	TAP-99-04-18		CS2021-11-3		HY/00/I/6667		
NO OF ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C			QUOTATION DATE:	2/5/2022		1/26/2022		1/10/2022		
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS	MEETS TECHNICAL REQUIREMENT						
				TAPCO	STATUS	CST		STATUS	HAVAYAR	
	Barring device with limit switch/ BARRING DEVICE TYPE (MANUAL / PENUMATIC / ELECTRIC)		Electrical Motor Required and to be supplied by vendor	Yes	A	Yes		A	Yes	A
	Flywheel		Required and to be supplied by vendor	Yes	A	Yes		A	Yes	A
	Flywheel guard		Non-spark guard Required and to be supplied by vendor	Yes	A	Yes		A	Yes	A
	FLYWHELL LOCKING DEVICE		Required and to be supplied by vendor	Yes	A	Yes		A	Yes	A
	Pulsation study (Approach 1/2/3)		Approach 3 Required and to be done by vendor	Yes	A	Yes		A	Yes	A
	STUDY TO CONSIDER:		as per datasheet and spec.	Yes	A	Yes		A	Yes	A
	Temporary and permanent strainer(s) at each stage inlet		Required and to be supplied by vendor	Yes	A	yes		A	Yes	A
	Differential pressure gauge for suction stainer spool piece		Required and to be supplied by vendor	Yes	A	yes		A	Yes	A
	Temp.guage(TG) for CW inlet		Required and to be supplied by vendor	Yes	A	Yes		A	Yes	A
	FLOW INDICATOR , TRV for CW OUTLET		Required and to be supplied by vendor	Yes	A	Yes		A	Yes	A
	Filter, PCV, PSV, diff.pressure transmitter with indicator, flow indicator for N2		Required and to be supplied by vendor	Yes	A	Yes		A	Yes	A

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک								
	TBE FOR GAS COMPRESSORS								
	نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری		پروژه
شماره پیمان: ۹۱۸۴ - ۰۷۳ - ۰۵۳	BK	GCS	PEDCO	120	ME	TB	0001	D02	شماره صفحه: ۲۵ از ۲۶

REQ. NAME: Material Requisition for Gas Compressor package			BIDDER:	"A"		"B"		"C"		
REF. REQ. NO. : BK-GCS-PEDCO-120-ME-MR-0001			NAME:	Tajhiz Arg Parsian (TAPCO)		Compressor Sazi Tabriz		HAVAYAR		
EQUIPMENT TYPE: Reciprocating Compressor			QUOTATION NO:	TAP-99-04-18		CS2021-11-3		HY/00/I/6667		
NO OF ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C			QUOTATION DATE:	2/5/2022		1/26/2022		1/10/2022		
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS	MEETS TECHNICAL REQUIREMENT						
				TAPCO	STATUS	CST		STATUS	HAVAYAR	
	Filter, PCV, PSV, Diff.pressure transmitter with indicator for instrument air		Required and to be supplied by vendor	Yes	A	Yes		A	Yes	A
	Distance Piece Collection Pot		Required and to be supplied by vendor	Yes	A	Yes		A	Yes	A
	Packing Leakage Collection Pot		Required and to be supplied by vendor	Yes	A	Yes		A	Yes	A
	RELIEF VALVE (S):									
	INITIAL INLET		Required and to be supplied by vendor	Yes	A	No		NA	No	N
	INTER SATGE		Required and to be supplied by vendor	Yes	A	Yes		A	Yes Location might be on snubber	A
	FINAL DISCHARGE		Required and to be supplied by vendor	Yes	A	Yes		A	Yes Location might be on snubber	A
	CRANK CASE RAPID PRESSURE RELIEF DEVICE		Required and to be supplied by vendor	Yes	A	Yes		A	No	N
	COMPRESSOR VALVE DYNAMIC RESPONSE		Required and to be done by vendor	Yes	A	Yes		A	Yes	A
	PERFORMANCE DATA REQUIRED:									
	BHP VS. SUCTION PRESSURE CURVES		Required and to be provided by vendor	Yes	A	will be provide after PO		A	will be provide after PO	A
	ROD LOAD /GAS LOAD CHARTS		Required and to be provided by vendor	Yes	A	will be provide after PO		A	will be provide after PO	

