



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

D03

شماره صفحه: ۱ از ۲۶

طرح نگهداشت و افزایش تولید ۲۷ مخزن

TBE FOR GAS COMPRESSORS

نگهداشت و افزایش تولید میدان نفتی بینک

D03	MAY.2023	FI	H.Adineh	M.Fakharian	A.M.Mohseni	
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: 3

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



NISOC

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سطح الارض

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شماره صفحه: ۲ از ۳۶

REVISION RECORD SHEET

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 NISOC	تجهداشت 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	D03	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/00/1/6667	
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	MEETS TECHNICAL REQUIREMENT							
				D02	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		
	D03		Yes	Yes	A	Yes	A	Yes	A		
			نگهداشت و افزایش تولید میدان نفتی بینک								
	NO NEGATIVE TOLERANCE APPLIES		Yes	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	D03	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					
				TAPCO	STATUS	CST	STATUS	HAVAYAR	STATUS
	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	D03	0001	TB	ME	120	PEDCO	GCS	BK	شماره صفحه: ۵ 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	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	D03	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	MEETS TECHNICAL REQUIREMENT					
				TAPCO	STATUS	CST	STATUS	HAVAYAR	STATUS
	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	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	MEETS TECHNICAL REQUIREMENT						
				TAPCO	STATUS	CST		STATUS	HAVAYAR	
	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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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
	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	

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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/00/1/6667	
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	MEETS TECHNICAL REQUIREMENT					
				TAPCO	STATUS	CST	STATUS	HAVAYAR	STATUS
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								
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REQ. NAME: Material Requisition for Gas Compressor package			BIDDER:	"A"		"B"		"C"	
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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	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
	Auxliary oil pump driven by electric motor		Yes	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	D03	0001	TB	ME	120	PEDCO	GCS	BK	شماره صفحه: ۱۱ 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/00/1/6667		
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	
	Separate console for oil system		Yes	Yes	A	Yes		A	Yes	A
	Separate Reservoir		Crankcase as Reservoir	Yes	A	Yes		A	Yes	A
	Filter Type		Duplex	Yes	A	Yes		A	Yes	A
	Change over valve		Yes	Yes	A	Yes		A	Yes	A
	Filter Material Casing / Cartridge		VTA	CS SA 395 / SS 316	A	SS		A	CS/SS	A
	Filter Rating		< 10 um	Yes	A	Yes		A	Yes	A
	Electric Heater		Yes	Yes	A	Yes		A	Yes	A
	Electric Heater Power		VTA	Refer to the vendor proposal	A	Refer to the vendor proposal		A	Refer to the vendor proposal	A
	Piping material (Upstream / Downstream):		SS 316	Yes	A	Yes		A	Yes	A
	Upstream of filter		SS 316	Yes	A	Yes		A	Yes	A
	Downstream of filter		SS 316	Yes	A	Yes		A	Yes	A
	Pumps (gear/screw)									
	Pump casing material (Main / Auxil.)		VTA	CS/CS	A	CI		A	CI/CS	A
	Coolers									

 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	D03	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/00/1/6667	
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
	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	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	D03	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□		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	تجهداشت و افزايش توليد ميدان نفتي بينک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک							 شرکت توسعه و پتروایران	
	TBE FOR GAS COMPRESSORS							 HIRGAN ENERGY 	
	نسخه	سریال	نوع مدرک	رشته	تجهيزات	صادرکننده	بسته کاری	پروژه	
شماره پیمان: ۹۱۸۴ - ۰۷۳ - ۰۵۳	D03	0001	TB	ME	120	PEDCO	GCS	BK	شماره صفحه: ۱۷ از ۳۶

NISOC

سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR GAS COMPRESSORS

پروژه

کاری

صادر کنندہ

تسهيلات

رشته

ع مدرک

سویاں

نسخه

شماره پیمان:

9184-073-053

شماره ۵ صفحه ۴: ۱۷؛ 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	D03	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 (PROXIMTY 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	تسهیلات	صادر کننده	بسته کاری	پروژه	
شماره پیمان: ۹۱۸۴ - ۰۷۳ - ۰۵۳	D03	0001	TB	ME	120	PEDCO	GCS	BK	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/00/1/6667	
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
	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	---	IN
	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	

 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	D03	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/00/1/6667	
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
	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	NA
	BAR-OVER TO CHECK ROD RUNOUT		Required and shall be done by vendor	Yes	A	Yes	A	NO	NA
	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	NA
	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	D03	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/00/1/6667		
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	
	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	D03	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/00/1/6667		
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	تجهیزات	صادر کننده	بسته کاری		پروژه
شماره پیمان: ۹۱۸۴ - ۰۷۳ - ۰۵۳	D03	0001	TB	ME	120	PEDCO	GCS	BK	شماره صفحه: ۲۶ از ۲۳

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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

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	TBE FOR GAS COMPRESSORS								
	نسخه	سریال	نوع مدرک	رشته	تجهیزات	صادر کننده	بسته کاری		پروژه
شماره پیمان: ۹۱۸۴ - ۰۷۳ - ۰۵۳	D03	0001	TB	ME	120	PEDCO	GCS	BK	شماره صفحه: ۲۶ از ۲۴

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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

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	TBE FOR GAS COMPRESSORS								
	نسخه	سریال	نوع مدرک	رشته	تجهیزات	صادر کننده	بسته کاری		پروژه
شماره پیمان: ۹۱۸۴ - ۰۷۳ - ۰۵۳	BK	GCS	PEDCO	120	ME	TB	0001	D03	شماره صفحه: ۲۶ از ۲۵

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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	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	

