

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

شرکت تومد پتروایرا^ن



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

NISOC

TRF	FOR	GAS	COMPR	RESSORS

شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدر ک	سريال	نسخه	شماره صفحه: ۱ از ۲۹
·or - ·yr - 9118	BK	GCS	PEDCO	120	ME	TB	0001	D02	سماره صفحه.۱۰۱۲

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-709	9218	·	·	·

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



نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

پتروایرات HIRGAN



NISOC

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR GAS COMPRESSORS

شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سر يال	نسخه	
·0T - ·YT - 911£	BK	GCS	PEDCO	120	ME	TB	0001	D02	

شماره صفحه: ۲ از ۲۹

REVISION RECORD SHEET

				RE	EVISION RE
Page	D00	D01	D02	D03	D04
1	X	X	X		1
2	X	X	X		<u> </u>
3	X	X	X		+
3 4	X X	X	X X		1
5	X	X	X		
6	X	X	X		
7	X		X		
8	X		X		
9	X		X		
10	X		X		
11	X		X		
12	X		X		
13	X				
14	X	Х	Х		
15	X		X		
16	X		X		
17	X X				
18	X				
19	Χ		Х		Ì
20	X X		X X		Ì
21	X		X		1
21 22	Х				1
23	Χ				
24 25	X				1
25	Х				
26	Х				
27					
28					
29					
29 30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					1
44					1
45					Ì
46					1
47					1
48					
49					1
50					1
51					1
52					1
53					1
53 54					1
55					
56					
57					
58					
59					1
60					1
61					1
62					1
63		-	1		1
64					

D SHEET					
Page	D00	D01	D02	D03	D04
65					
66					
67					
68					
69					
70					
71					
72 73					
74					
75					
75 76					
77					
78					
79					
80					
81					
82					
83					
84					
85 86					
87					
88					
89					
90					
91					
92					
93					
94					
95					
96					
97 98					
99					
100					
101					
101 102					
103					
104					
105					
106					
107					
108					
109 110					
111					
112					
113					
114					
115					
116					
117					
118					
119		ļ			
120 121					
121					
123					
124					
125					
126					
127					
128					
	_			_	_



شماره پیمان:

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR GAS COMPRESSORS

انخه سريال نوع مدرك رشه تبهيلات صادر كننده بسته كارى پروژه BK GCS PEDCO 120 ME TB 0001 D02



شماره صفحه: ۳ از ۲۹

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 T	abriz	HAVAYAR	
EQUI	PMENT TYPE: Reciprocating Compressor		QUOTATION NO:	TAP-99-04-18		CS2021-11-3/JA00	846	HY/00/I/6667	
но о	F ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B	s/C	QUOTATION DATE:	5/14/2022			5/22/2022		
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS	\wedge	ı	MEETS TECHNICAL REQUIREMENT			
NO.		UNITS	TECHNICAL REQUIREMENTS	DO2 TAPCO	STATUS	CST	STATUS	HAVAYAR	STATUS
	COMPRESSOR OPERATING / CONSTRUCTION		7						
	REFERENCE STANDARD		API 618	API-618, 5th	Α	API-618, 5th	Α	API-618, 5th	Α
	COMPRESSOR MODEL / TAG NO.		VTA / (C-2101 and C-2102) A/B/C	B252-250 S 5.6	А	4M20-25/4.9-54.8	А	KSOPTNL (C-2101 & C-2102A/B/C)	А
	DRIVER TYPE / MODEL		Electric Motor	Electric Motor	А	Elec motor	А	Elec motor	Α
	NO OF STAGES		2	2	А	2	А	2	Α
	MANUFACTURER RATED CAPACITY	kg/hr	VTA	8276.9	А	8352	А	8343.5	А
	MANUFACTURER RATED INLET VOLUME FLOW	Nm3/h	VTA	8690.2	А	8648	А	8668.6	А
	CYLINDER CONSTRUCTION:(LUBE / NON LUBE)		Lube Type	Lube Type	А	Lube Type	А	Lube Type	Α
	CYLINDER TYPE (HORIZONTAL / VERTICAL / V TYPE)		Horizontal	Horizontal	А	Horizontal	Α	Horizontal	Α
	COMPRESSOR THROWS(TOTAL NO. / NO. WITH CYLINDERS)		VTA	2/2	А	4/4	Α	2/2	Α
	DRIVE SYSTEM (DIRECT/GEARED& COUPLED /V-BELT)		Direct	Direct	А	Direct	Α	Direct	Α
	MAX. ACCEPTABLE AVERAGE PISTON SPEED	m/s	4	Yes	А	Yes	А	Yes	Α
	NO NEGATIVE TOLERANCE APPLIES		Yes	Yes	А	Yes	А	Yes	Α



شماره پیمان:

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR GAS COMPRESSORS

انىخە سريال نوع مدر ک رشته تىھىلات صادر کننده بىتە کارى پروژه BK GCS PEDCO 120 ME TB 0001 D02



شماره صفحه: ٤ از ٢٦

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	
EQUI	PMENT TYPE: Reciprocating Compressor		QUOTATION NO:	TAP-99-04-18		CS2021-11-3		HY/00/I/6667	
NO O	F ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/E	3/C	QUOTATION DATE:	2/5/2022		1/26/2022		1/10/2022	
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS	MEETS TECHNICAL			EQUIREMENT		
NO.		UNITS	TECHNICAL REQUIREMENTS	02 TAPCO	STATUS	CST	STATUS	HAVAYAR	STATUS
	OPERATING CONDITION								
	GAS HANDLED		Sour Gas (Gas Component as per project datasheet)	Yes	А	Yes	А	Yes	Α
	INLET CONDITIONS (at inlet pulsation dampener /cylinder:)								
	Pressure	barg	As per project datasheet	Refer to the vendor proposal	А	Refer to the vendor proposal	А	Refer to the vendor proposal	А
	Tempreture	°C	As per project datasheet	Refer to the vendor proposal	А	Refer to the vendor proposal	А	Refer to the vendor proposal	Α
	REQUIRED CAPACITY AT INLET TO COMPRESSOR (NNT)	kg/h	As per project datasheet	Refer to the vendor proposal	А	Refer to the vendor proposal	А	Refer to the vendor proposal	А
	REQUIRED CAPACITY AT INLET TO COMPRESSOR (NNT)	Nm3/h	As per project datasheet	Refer to the vendor proposal	А	Refer to the vendor proposal	А	Refer to the vendor proposal	Α
	DISCHARGE CONDITIONS (At outlet from cylinder:)								
	Pressure	barg	VTA	Refer to the vendor proposal	А	Refer to the vendor proposal	А	Refer to the vendor proposal	А
	Relief valve set point	barg	VTA	Refer to the vendor proposal	А	Refer to the vendor proposal	А	Refer to the vendor proposal	А
	Tempreture predicated	°C	VTA	Refer to the vendor proposal	А	Refer to the vendor proposal	А	Refer to the vendor proposal	А
	Driver power required	kW	VTA	Refer to the vendor proposal	А	Refer to the vendor proposal	А	Refer to the vendor proposal	А



شماره پیمان:

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR GAS COMPRESSORS

انىخە سريال نوع مدر ك رشته تىھيلات صادر كننده بىتە كارى پروژه BK GCS PEDCO 120 ME TB 0001 D02



شماره صفحه: ٥ از ٢٦

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	
EQUI	PMENT TYPE: Reciprocating Compressor		QUOTATION NO:	TAP-99-04-1	8	CS2021-11-3		HY/00/I/6667	
ио о	F ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/E	3/C	QUOTATION DATE:	2/5/2022		1/26/2022		1/10/2022	
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS		l	MEETS TECHNICAL REQU	IREMENT		
NO.		UNITS	TECHNICAL REQUIREMENTS	DO2 TAPCO	STATUS	CST	STATUS	HAVAYAR	STATUS
	PROCESS CONTROL								
	Capacity Control by Means of:								
	- Recycle valve		Required (One spill back for each compressor)	Yes	A	Yes	А	Yes	А
	- Suction unloader		Required	Yes	А	Yes	Α	Yes	А
	No. of steps		0-25-50-75-100	Yes	А	Yes	А	Yes	Α
	Suction unloader type		Finger	Yes	A	Yes	А	Yes	Α
	Action (Direct/Reverse)		Reverse	Yes	А	Yes	А	Yes	А
	-CLEARANCE POCKET (FIXED / VARIABLE)		VTA	Not required	CA	N/A	А	Fixed Clearance pocket	Α
	CYLINDER DATA AT FULL LOAD CONDITIONS								
	No of cylinders per stage		VTA	1	A	2	А	1	Α
	STROKE	mm	VTA	260	А	280	А	250	Α
	Single/double acting		DA	DA	А	DA	А	DA	Α
	Bore	mm	VTA	Stg1:500 / Stg2:285	A	Stg1:360 / Stg2:225	А	Stg1:475 / Stg2:280	А
	Piston Speed	mps	max. 4	3.64	A	Yes	А	3.5	А



شماره پیمان:

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR GAS COMPRESSORS

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

 BK
 GCS
 PEDCO
 120
 ME
 TB
 0001
 D02



شماره صفحه: ۲ از ۲٦

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 (ГАРСО)	Compressor Sazi T	abriz	HAVAYAR	
QUI	PMENT TYPE: Reciprocating Compressor		QUOTATION NO:	TAP-99-04-18		CS2021-11-3		HY/00/I/6667	
10 O	F ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/E	s/C	QUOTATION DATE:	2/5/2022		1/26/2022		1/10/2022	
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS	\wedge		MEETS TECHNICAL REQUI	REMENT		
NO.		UNITS	TECHNICAL REQUIREMENTS	DO2 TAPCO	STATUS	CST	STATUS	HAVAYAR	STATUS
	Cylinder liner yes/no		Yes	Yes	А	Yes	А	Yes	А
	Suction valves quantity per cylinder		VTA	For 1st stage: 2 / For 2nd stage:1	А	For 1st stage: 2 / For 2nd stage:2	А	4	А
	Disch. Valves quantity per cylinder		VTA	For 1st stage: 2 / For 2nd stage:2	А	For 1st stage: 2 / For 2nd stage:3	А	4	А
	Rod diameter	mm	VTA	80	А	75	А	90	А
	Hydro test pressure	barg	1.5 x MAWP	Yes	А	Yes	А	Yes	А
	GAS LEAKAGE TEST PRESSURE,		1 x MAWP	Yes	А	Yes	А	Yes	А
	PISTON DISPLACEMENT	m3/h	VTA	2540 / 803	А	2844/1072.5	А	2192.71 / 735.77	А
	VOLUMETRIC EFFICIENCY	%	VTA	64,56/ 67,78	А	55.9/51.3	Α	72.47 / 74.58	А
									_
	COMPRESSOR CYLINDER ROD PACKING								
	Lube- Type		Yes	Yes	А	Yes	А	Yes	А
	VENTED TO FLARE OR ATM.		Flare	Yes	А	Yes	А	Yes	Α
	WATER FILTER		Yes	Yes	А	Yes	А	Yes	А



پروژه

شماره پیمان:

بسته کاری

GCS

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR GAS COMPRESSORS

نيخه سريال نوع مدرك رشته تيهيلات صادر كننده PEDCO 120 ME TB 0001 D02



شماره صفحه: ۲ از ۲3

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 (1	ГАРСО)	Compressor Sazi Tabriz		HAVAYAR	
EQUI	PMENT TYPE: Reciprocating Compressor		QUOTATION NO:	TAP-99-04-18		CS2021-11-3		HY/00/I/6667	
но о	FITEMS 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		ı	MEETS TECHNICAL REQUI	REMENT		
NO.		UNITS	DO DO	12 TAPCO	STATUS	CST	STATUS	HAVAYAR	STATUS
	VENT/BUFFER GAS SEAL PACKING ARRANGEMENT(FIG. I-1 , I-2 , I3)		Yes	Yes	Α	Yes	А	Yes	Α
	INERT BUFFER PURGE GAS (N2 / OTHER)		Yes	Yes	Α	Yes	А	Yes	Α
	DISTANCE PIECE								
	Type A /B /C /D		С	Type C	А	Type C	А	Type C	Α
	CYLINDER COOLING SYSTEM								
	API Plan TYPE A /B / C / D		Plan D	Plan D	А	Plan D	А	Plan D	Α
	Piping material		C.S as min.	Yes	Α	Yes	А	Yes	Α
	MATERIAL								
	Frame		Cast Iron	Yes	Α	Yes	А	Yes	Α
	Cylinder / cylider liner		VTA	EN-GJSA-XNiMn23-4 (ASTM A571 D2M) / EN-GJSA-XNiMn23- 4 (ASTM A571 D2M)	А	ASTM A395 60-40-18 / ASTM A395 60-40-18	А	Nodular Cast Iron / Cast Iron	А
	Piston		VTA	X5CrNi18-10 (1.4301)	А	ASTM A240 304	А	Nodular Cast Iron	Α



پروژه

شماره پیمان:

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR GAS COMPRESSORS

نىخە سريال نوع مدر ک رشته تىھيلات صادر کننده بىته کارى
GCS PEDCO 120 ME TB 0001 D02



شماره صفحه: ۱ از ۲3

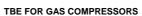
REQ.	NAME: Material Requisition for Gas Compressor package		BIDDER:	"A"		"B"		"C"	
REF.	REQ. NO.: BK-GCS-PEDCO-120-ME-MR-0001		NAME:	Tajhiz Arg Parsian (1	ГАРСО)	Compressor Sazi T	abriz	HAVAYAR	
EQU	PMENT TYPE: Reciprocating Compressor		QUOTATION NO:	TAP-99-04-18		CS2021-11-3		HY/00/I/6667	
NO C	F ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B	s/C	QUOTATION DATE:	2/5/2022	1/10/2022				
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS			MEETS TECHNICAL REQUI	REMENT		
NO.		UNITS	TECHNICAL REQUIREMENTS DO	2 TAPCO	STATUS	CST	STATUS	HAVAYAR	STATUS
	piston rings		VTA	PTFE	А	PTFE	А	Filled PTFE	А
	Piston rod/ PISTON ROD COATING		Forged Alloy Steel (ASTM by vendor) / Coating: VTA	5CrNiCuNb 16-4 +P800/ Tungsten Carbide	А	AISI 420/high-frequency current hardening	А	Stainless Steel "Tc" Coating	А
	Pressure packing ring /spring/ casing		VTA	X20Cr13/Ni Alloys/X5CrNi18-10	А	PTFE/20Cr13(ASTM A276 420)/17-7PH	А	PTFE/SS/SS	А
	Crank shaft		Forged Steel	Forged Steel	А	Forged steel	А	Forged Steel	Α
	Valve seat/discs/spring		VTA	X5CrNi18-10 / PEEK,NYLON / Ni- Alloys	А	20Cr13(ASTM A276 420)/PEEK/20Cr13(ASTM A276 420)	А	SS/PEEK/Inconel	А
	Connecting Rod		Forged Steel	Forged Steel	А	Forged Steel	А	Forged Steel	Α
	Croshead /crosshead shoes		VTA	GE 240 /EN-GJS-400-15	А	ZG230-450(ASTM A27 65- 35)/15ChSnSb11-6	А	Cast Steel / Cast Iron "Wj2" Coating	j A
	CROSSHEAD PIN BUSHING		VTA	C10 / WM	А	bronze+babbit	А		INA
	MAIN JOURNAL BEARING, CRANKSHAFT		VTA	C10/WM	А	bronze+babbit	А		INA
	NACE REQUIREMENTS		NACE MR-0175	Yes	А	Yes	А	Yes	Α



شماره پیمان:

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک







شماره صفحه: ۹ از ۲۲

								ı	
NAME: Material Requisition for Gas Compressor package		BIDDER:		"A"		"B"		"C"	
REQ. NO.: BK-GCS-PEDCO-120-ME-MR-0001		NAME:	Tajhiz Arg P	arsian (T	APCO)	Compressor Sazi	Γabriz	HAVAYAR	
PMENT TYPE: Reciprocating Compressor		QUOTATION NO:	TAP-	99-04-18		CS2021-11-3		HY/00/I/6667	
F ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B	/C	QUOTATION DATE:	1/2	5/2022		1/26/2022		1/10/2022	
DESCRIPTION	LIMITS	TECHNICAL DECLIDEMENTS			ı	MEETS TECHNICAL REQU	IREMENT		
	UNITS	TECHNICAL REQUIREMENTS	D02 TAPCO		STATUS	CST	STATUS	HAVAYAR	STATUS
COOLANT SYSTEM									
PRESSURE FORCED CIRCULATING SYSTEM (OPEN /CLOSED)		Closed	Closed		Α	Closed	А	Closed	Α
BASIC COOLING SYSTEM FOR:									
COMPRESSOR CYLINDER		Yes	Yes		А	Yes	А	Yes	Α
ROD PACKING		Yes	Yes		Α	Yes	А	Yes	Α
PROCESS COOLER		N/A	N/A		Α	N/A	A	N/A	Α
OIL COOLERS		N/A (To be cooled with a separate air cooler)	Yes		А	Yes	А	Yes	Α
HEATERS REQUIRED FOR PRE HEATING		Yes	Yes		Α	Yes	А	Yes	Α
HEATER TYPE (ELECTRIC, STEAM)		Electrical	Yes		Α	Yes	А	Yes	Α
CLOSED SYSTEM									
Main COOLANT pump driven by		Electric motor	Yes		Α	Yes	А	Yes	Α
Auxiliary COOLANT pump driven by		Electric motor	Yes		Α	Yes	А	Yes	Α
Console for COOLANT SYSTEM		Required	Yes		Α	Yes	А	Yes	Α
COOLANT RESERVOIR:									
	REQ. NO.: BK-GCS-PEDCO-120-ME-MR-0001 PMENT TYPE: Reciprocating Compressor F ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B DESCRIPTION COOLANT SYSTEM PRESSURE FORCED CIRCULATING SYSTEM (OPEN /CLOSED) BASIC COOLING SYSTEM FOR: COMPRESSOR CYLINDER ROD PACKING PROCESS COOLER OIL COOLERS HEATERS REQUIRED FOR PRE HEATING HEATER TYPE (ELECTRIC, STEAM) CLOSED SYSTEM Main COOLANT pump driven by Auxiliary COOLANT pump driven by Console for COOLANT SYSTEM	REQ. NO.: BK-GCS-PEDCO-120-ME-MR-0001 PMENT TYPE: Reciprocating Compressor FITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C DESCRIPTION UNITS COOLANT SYSTEM PRESSURE FORCED CIRCULATING SYSTEM (OPEN /CLOSED) BASIC COOLING SYSTEM FOR: COMPRESSOR CYLINDER ROD PACKING PROCESS COOLER OIL COOLERS HEATERS REQUIRED FOR PRE HEATING HEATER TYPE (ELECTRIC, STEAM) CLOSED SYSTEM Main COOLANT pump driven by Auxiliary COOLANT pump driven by Console for COOLANT SYSTEM	REQ. NO.: BK-GCS-PEDCO-120-ME-MR-0001 PMENT TYPE: Reciprocating Compressor FITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C DESCRIPTION UNITS TECHNICAL REQUIREMENTS COOLANT SYSTEM PRESSURE FORCED CIRCULATING SYSTEM (OPEN /CLOSED) BASIC COOLING SYSTEM FOR: COMPRESSOR CYLINDER ROD PACKING PROCESS COOLER OIL COOLERS N/A OIL COOLERS N/A (To be cooled with a separate air cooler) HEATERS REQUIRED FOR PRE HEATING HEATER TYPE (ELECTRIC, STEAM) CLOSED SYSTEM Main COOLANT pump driven by Auxiliary COOLANT pump driven by Electric motor Console for COOLANT SYSTEM Required	REQ. NO.: BK-GCS-PEDCO-120-ME-MR-0001 NAME: Tajhiz Arg P PMENT TYPE: Reciprocating Compressor QUOTATION NO: TAP- FITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C DESCRIPTION UNITS TECHNICAL REQUIREMENTS TAPCO COOLANT SYSTEM PRESSURE FORCED CIRCULATING SYSTEM (OPEN /CLOSED) BASIC COOLING SYSTEM FOR: COMPRESSOR CYLINDER ROD PACKING PROCESS COOLER N/A OIL COOLERS HEATERS REQUIRED FOR PRE HEATING HEATERS REQUIRED FOR PRE HEATING HEATERS REQUIRED FOR PRE HEATING HEATER TYPE (ELECTRIC, STEAM) CLOSED SYSTEM Main COOLANT pump driven by Auxiliary COOLANT pump driven by Electric motor Yes Required Yes Console for COOLANT SYSTEM Required Yes	REQ. NO.: BK-GCS-PEDCO-120-ME-MR-0001 NAME: Tajhiz Arg Parsian (T PMENT TYPE: Reciprocating Compressor QUOTATION NO: TAP-99-04-18 FITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C QUOTATION DATE: 1/25/2022 DESCRIPTION UNITS TECHNICAL REQUIREMENTS D02 TAPCO COOLANT SYSTEM PRESSURE FORCED CIRCULATING SYSTEM (OPEN /CLOSED) BASIC COOLING SYSTEM FOR: COMPRESSOR CYLINDER ROD PACKING PROCESS COOLER N/A OIL COOLERS N/A N/A (To be cooled with a separate air cooler) Yes HEATER SEQUIRED FOR PRE HEATING HEATER STPPE (ELECTRIC, STEAM) Electrical Yes Auxiliary COOLANT pump driven by Electric motor Yes Console for COOLANT pump driven by Required Yes Required Yes	REQ. NO.: BK-GCS-PEDCO-120-ME-MR-0001 NAME: Tajhiz Arg Parsian (TAPCO) PMENT TYPE: Reciprocating Compressor QUOTATION NO: TAP-99-04-18 FITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C QUOTATION DATE: 1/25/2022 DESCRIPTION UNITS TECHNICAL REQUIREMENTS D02 TAPCO STATUS COOLANT SYSTEM PRESSURE FORCED CIRCULATING SYSTEM (OPEN /CLOSED) BASIC COOLING SYSTEM FOR: COMPRESSOR CYLINDER PROCESS COOLER PROCESS COOLER N/A OIL COOLERS HEATER SEQUIRED FOR PRE HEATING HEATERS REQUIRED FOR PRE HEATING HEATER TYPE (ELECTRIC, STEAM) CLOSED SYSTEM Main COOLANT pump driven by Main COOLANT pump driven by Electric motor Yes A Required Yes A Console for COOLANT SYSTEM	REQ. NO.: BK-GCS-PEDCO-120-ME-MR-0001 NAME: Tajhiz Arg Parsian (TAPCO) Compressor Sazi Tajhiz Arg Parsian (TAPCO) Compressor Sazi Tajhiz Arg Parsian (TAPCO) Compressor Sazi Tajhiz Arg Parsian (TAPCO) TAP-99-04-18 CS2021-11-3 FITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C DESCRIPTION UNITS TECHNICAL REQUIREMENTS D02 TAPCO STATUS MEETS TECHNICAL REQUIREMENTS D02 TAPCO STATUS CST COOLANT SYSTEM PRESSURE FORCED CIRCULATING SYSTEM (OPEN / CLOSED) Closed Closed A Closed A Closed BASIC COOLING SYSTEM FOR: COMPRESSOR CYLINDER Yes Yes Yes Yes A Yes PROCESS COOLER NIA NIA NIA NIA NIA OIL COOLERS NIA	REQ. NO. : BK-GCS-PEDCO-120-ME-MR-0001 NAME: Tajhiz Arg Parsian (TAPCO) Compressor Sazi Tabriz PMENT TYPE: Reciprocating Compressor QUOTATION NO: TAP-99-04-18 CS2021-11-3 FITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C UNITS DESCRIPTION UNITS TECHNICAL REQUIREMENTS TAPCO SEXURE MEETS TECHNICAL REQUIREMENT TAPCO SEXURE COLANT SYSTEM PRESSURE FORCED CIRCULATING SYSTEM (OPEN /CLOSED) COMPRESSOR CYLINDER COMPRESSOR CYLINDER PROCESS COOLER NA PROCESS COOLER NA N/A N/A N/A N/A N/A N/A N/A	REQ. NO. : BK-GCS-PEDCO-120-ME-MR-0001 NAME: Tajhiz Arg Parsian (TAPCO) Compressor Sazi Tabriz HAVAYAR PMENT TYPE: Reciprocating Compressor FITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C DESCRIPTION UNITS TECHNICAL REQUIREMENTS TECHNICAL REQUIREMENTS TECHNICAL REQUIREMENTS TAPCO STATUS MEETS TECHNICAL REQUIREMENT TAPCO STATUS TAPCO STATUS MEETS TECHNICAL REQUIREMENT TAPCO STATUS MEETS TECHNICAL REQUIREMENT TAPCO STATUS TAPCO STATUS MEETS TECHNICAL REQUIREMENT TAPCO STATUS MEETS TECHNICAL REQUIREMENT TAPCO STATUS TAPCO STATUS TAPCO STATUS MEETS TECHNICAL REQUIREMENT TAPCO STATUS TAPCO STATUS MEETS TECHNICAL REQUIREMENT TAPCO STATUS TAPCO STA



COOLANT HEAT EXCHANGER

پروژه

شماره پیمان:

بسته کاری

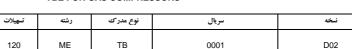
صادر كننده

PEDCO

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR GAS COMPRESSORS





شماره صفحه: ۱۰ از ۲۹

REQ.	NAME: Material Requisition for Gas Compressor package		BIDDER:	"A"		"B"		"C"	
REF. I	REQ. NO. : BK-GCS-PEDCO-120-ME-MR-0001		NAME:	Tajhiz Arg Parsian (TAPCO)	Compressor Sazi T	abriz	HAVAYAR	
EQUIF	PMENT TYPE: Reciprocating Compressor		QUOTATION NO:	TAP-99-04-18		CS2021-11-3	3 HY/00/I/6667		
NO OI	FITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B	/C	QUOTATION DATE:	2/5/2022		1/26/2022		1/10/2022	
NO.	DESCRIPTION UNI		TECHNICAL REQUIREMENTS			MEETS TECHNICAL REQUIREMENT			
NO.		ONITS	TECHNICAE REGUIREMENTS	TAPCO	STATUS	CST	STATUS	HAVAYAR	STATUS
	RESERVOIR MATERIAL		VTA	CS	А	CS	Α	CS	А
	INSPECTION OPENENING		Yes	Yes	А	Yes	Α	Yes	Α
	DRAIN VALVE		Yes	Yes	А	Yes	Α	Yes	Α
	LEVEL GAGE / TRANSMITTER		Yes	Yes	А	Yes	Α	Yes	Α
	PUMPS (CENTRIFUGAL ONLY)								
	CASING MATERIAL		VTA	Cast Iron	А	Cast Iron	А	CS or CI	Α

Air Cooled		As per API 661	Yes	Α	Yes	А	Yes	А		
With by-pass control valve		Yes	Yes	А	Yes	А	Yes	А		
FILTER (125 micron)		Yes (for packing)	Yes	А	Yes	А	Yes	А		
FRAME LUBE OIL SYSTEM										
Main oil pump driven by crankshaft/electric motor		Shaft Driven	Shaft Driven	А	Shaft Driven	А	Shaft Driven	А		
Auxiliary oil pump driven by electric motor		Yes	Yes	А	Yes	А	Yes	А		
	•	•		•						



شماره پیمان:

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR GAS COMPRESSORS

انىخە سريال نوع مدر ك رشته تىھيلات صادر كىندە بىتە كارى پروۋە BK GCS PEDCO 120 ME TB 0001 D02



شماره صفحه: ۱۱ از ۲۹

			ı						
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 (ГАРСО)	Compressor Sazi T	abriz	HAVAYAR	
EQUI	PMENT TYPE: Reciprocating Compressor		QUOTATION NO:	TAP-99-04-18		CS2021-11-3		HY/00/I/6667	
NO O	F ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B	s/C	QUOTATION DATE:	2/5/2022		1/26/2022		1/10/2022	
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS		ı	MEETS TECHNICAL REQUI	REMENT		
NO.		UNITS	TECHNICAL REQUIREMENTS	D02 TAPCO	STATUS	CST	STATUS	HAVAYAR	STATUS
	Separate console for oil system		Yes	Yes	А	Yes	А	Yes	Α
	Separate Reservoir		Crankcase as Reservoir	Yes	А	Yes	А	Yes	Α
	Filter Type		Duplex	Yes	А	Yes	А	Yes	Α
	Change over valve		Yes	Yes	А	Yes	А	Yes	Α
	Filter Material Casing / Cartridge		VTA	CS SA 395 / SS 316	А	SS	А	CS/SS	Α
	Filter Rating		< 10 um	Yes	А	Yes	А	Yes	Α
	Electric Heater		Yes	Yes	А	Yes	А	Yes	Α
	Electric Heater Power		VTA	Refer to the vendor proposal	А	Refer to the vendor proposal	А	Refer to the vendor proposal	Α
	Piping material (Upstream / Downstream):		SS 316	Yes	А	Yes	А	Yes	Α
	Upstream of filter		SS 316	Yes	А	Yes	А	Yes	Α
	Downstream of filter		SS 316	Yes	А	Yes	А	Yes	Α
	Pumps (gear/screw)								
	Pump casing material (Main / Auxil.)		VTA	CS/CS	А	CI	А	CI/CS	Α
	Coolers								



شماره پیمان:

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR GAS COMPRESSORS

انىخە سريال نوع مدرك رشته تىھىلات صادركىندە بىتە كارى پروژه BK GCS PEDCO 120 ME TB 0001 D02



شماره صفحه: ۱۲ از ۲۹

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 T	abriz	HAVAYAR	
EQUI	PMENT TYPE: Reciprocating Compressor		QUOTATION NO:	TAP-99-04-18		CS2021-11-3		HY/00/I/6667	
NO C	F 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 REQUI	REMENT		
NO.		UNITS	TECHNICAL REQUIREMENTS	D02 TAPCO	STATUS	CST	STATUS	HAVAYAR	STATUS
	Shell & tube/ PLATE / AIR COOLED		Air Cooled	Yes	А	Yes	А	Yes	А
	Single/dual		VTA	Single	А	Single	А	Single	Α
	With by-pass TEMP. control valve		Yes	Yes	А	Yes	Α	Yes	Α
	PCV for lube oil pressure control		Yes	Yes	А	Yes	А	Yes	Α
	Check valves		Yes	Yes	А	Yes	Α	Yes	Α
	Individual Pressure gauge (PG) for main/aux. oil pump		VTA	Yes	А	No	А	Yes	Α
	CYLINDER LUBRICATION								
	LUBRICATOR TYPE (SINGLE PLUNGER PER POINT / DIVIDER BLOCKS)		SINGLE PLUNGER PER POINT	Yes	А	Yes	А	Yes	А
	LUBRICATOR DRIVE BY (COMP. CRANKSHAFT/ ELECTRIC MOTOR / OTHER)		Electrical Motor	Yes	А	Yes	A	Yes	А
	HEATER TYPE (ELECTRIC / STEAM)		Electrical Heater	Yes	А	`	А	Yes	Α
	NO OF LUBRICATING POINTS PER CYLINDER		VTA		INA		INA		INA
	NO OF LUBRICATING POINTS PER PRESSURE PACKING		VTA		INA		INA		INA
							-	-	



شماره پیمان:

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR GAS COMPRESSORS

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

 BK
 GCS
 PEDCO
 120
 ME
 TB
 0001
 D02



شماره صفحه: ۱۳ از ۲۹

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 T	abriz	HAVAYAR	
EQU	PMENT TYPE: Reciprocating Compressor		QUOTATION NO:	TAP-99-04-18		CS2021-11-3		HY/00/I/6667	
NO C	F 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 REQUI	REMENT		
NO.		UNITS	TECHNICAL REQUIREMENTS	TAPCO	STATUS	CST	STATUS	HAVAYAR	STATUS
	PULSTATION SUPPRESSION DEVICES								
	INTEGRAL MOISTURE REMOVAL SECTION		No	No	А	No	А	No	Α
	Drain / Vent		Yes	Yes	А	Yes	А	Yes	Α
	Construction code/ CODE STAMP		ASME sec VIII / No	ASME sec VIII / No	А	ASME sec VIII / No	Α	ASME sec VIII / No	Α
	Material (inlet / discharge)		C.S.	C.S.	А	cs	А	Yes	Α
	NACE REQUIREMENT WITH SSC/HIC TEST		Yes	Yes	А	Yes	Α	Yes	Α
	INSPECTION OPENNING / SIZE		Yes / as per API 618	Yes / as per API 618	А	Yes / as per API 618	Α	Yes / as per API 618	Α
	CORROSION ALLOWANCE		At least 3mm	At least 3mm	А	At least 3mm	А	At least 3mm	Α
	DESIGN FOR FULL VACUUM CAPABILITY		Yes	Yes	А	Yes	А	Yes	Α
	MIN REQ'D WORKING PRESSURE & TEMP.		As per datasheet	As per datasheet	А	As per datasheet	Α	As per datasheet	Α
	MIN. DESIGN METAL TEMP.		As per datasheet and TCL	Yes	А	Yes	А	Yes	Α
	INLET SUPRESS. TO BE SAME MAWP AS DISCHARGE SUPRESS.		As per datasheet	As per datasheet	А	As per datasheet	А	As per datasheet	А
	INSULATION NUTS/CLIP/SUPPORT		Yes	Yes	А	Yes (insulation will be specified later)	А	Yes (if required)	А
	COOLERS								



شماره پیمان:

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR GAS COMPRESSORS

 نیخه
 سریال
 نوع مدر ک
 رشته
 تسهیلات
 صادر کننده
 بیته کاری
 پروژه

 BK
 GCS
 PEDCO
 120
 ME
 TB
 0001
 D02



شماره صفحه: ۱۶ از ۲۹

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 Parsi	an (TAPCO)	Compressor Sazi	Γabriz	HAVAYAR	
EQUI	PMENT TYPE: Reciprocating Compressor		QUOTATION NO:	TAP-99-0	4-18	CS2021-11-3		HY/00/I/6667	
но о	F ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B	/C	QUOTATION DATE:	2/5/202	22	1/26/2022		1/10/2022	
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS DO			MEETS TECHNICAL REQU	IREMENT		
NO.		UNITS	TECHNICAL REQUIREMENTS DO2	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	А	1050 KW	А
	VOLTS / PHASE / HZ		Main Driver: 11kV/3phase/50 Hz	Yes	А	Yes	А	Yes	Α
	IP PROTECTION / INSULATION CLASS / TEMP RISE		IP55/ F/B	Yes	А	IP55/ F/B	А	Yes	Α
	AREA CLASSIFICATION (Ex PROTECTION: FRAME / TERMINAL)		EX	As per TCL	A	As per TCL	А	As per TCL	Α
	START METHOD / SERVICE FACTOR		D.O.L.	Yes	А	Yes	А	Yes	Α
	MAX STARTING CURRENT (RATIO TO NORMAL)								
	COOLING METHOD (TEFC,)		Air Cooled	Yes	A	Yes	А	IC611	Α



شماره پیمان:

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR GAS COMPRESSORS

نيخه سريال نوع مدر ک رشته تيهيلات صادر کننده بسته کاری پروژه BK GCS PEDCO 120 ME TB 0001 D02



شماره صفحه: ۱۵ از ۲۹

F. REQ. NO. : BK-GCS-PEDCO-120-ME-MR-0001 NAME: UIPMENT TYPE: Reciprocating Compressor QUOTATION NO: QUOTATION NO: QUOTATION DATE: DESCRIPTION UNITS TECHNICAL REQUIREMENTS MOTOR FRAME, FAN AND FAN COVER MATERIAL SPACE HEATER / CABLE GLAND VTA	Tajhiz Arg Parsia TAP-99-04 2/5/202: TAPCO No / Yes	1-18 2	Compressor Sazi CS2021-11- 1/26/2022 MEETS TECHNICAL REQ CST	3	HAVAYAR HY/00/V6667 1/10/2022 HAVAYAR	STATUS
OF ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C DESCRIPTION UNITS TECHNICAL REQUIREMENTS MOTOR FRAME, FAN AND FAN COVER MATERIAL SPACE HEATER / CABLE GLAND VTA	2/5/202: TAPCO	STATUS INA	1/26/2022 MEETS TECHNICAL REQ CST	UIREMENT	1/10/2022 HAVAYAR	STATUS
DESCRIPTION UNITS TECHNICAL REQUIREMENTS MOTOR FRAME, FAN AND FAN COVER MATERIAL SPACE HEATER / CABLE GLAND VTA	TAPCO	STATUS	MEETS TECHNICAL REQ	STATUS	HAVAYAR	
MOTOR FRAME, FAN AND FAN COVER MATERIAL VTA SPACE HEATER / CABLE GLAND VTA		STATUS	CST 	STATUS		
MOTOR FRAME, FAN AND FAN COVER MATERIAL SPACE HEATER / CABLE GLAND VTA		INA				
SPACE HEATER / CABLE GLAND VTA				INA		
	No / Yes	NIA				INA
		INA	As per TCL	А	As per TCL	А
INSTRUMENTATIONS:						
BEARING TEMPERATURE SENSOR Required	Yes	А	2 RTD/bearing	А	Yes	А
WINDING TEMPERATURE SENSOR Required	Yes	А	Yes	А	Yes	А
VIBRATION SENSOR As per API 670	Yes	А	Yes	А	As per API	А
LOCAL CONTROL STATION / PANEL & CABLE GLAND As per data sheet	Not separately	А	LCP qouted	А	As per TCL	А
D02						
SAFETY						
HAZARDOUS AREA CLASSIFICATION Zone 2, IIB, T3 FOR ELECTRICAL DEVICES	Yes	А	Yes	А	Yes	А
NOISE LIMITATION AT 1M FROM EQUIPMENT dB(A) 85	Yes	А	Yes	А	Yes	А
NOISE DATA SHEET BASED ON PROJECT REQUIREMENTS Yes	Yes, after PO.	А	Yes, after PO.	Α	Yes, after PO.	А



شماره پیمان:

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR GAS COMPRESSORS

نیخه سریال نوع مدرک رشته تبهیلات صادر کننده بسته کاری پروژه BK GCS PEDCO 120 ME TB 0001 D02



شماره صفحه: ۱٦ از ٢٦

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 (ГАРСО)	Compressor Sazi T	abriz	HAVAYAR	
EQUI	PMENT TYPE: Reciprocating Compressor		QUOTATION NO:	TAP-99-04-18		CS2021-11-3		HY/00/I/6667	
10 O	F ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/E	3/C	QUOTATION DATE:	2/5/2022		1/26/2022		1/10/2022	
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS			MEETS TECHNICAL REQUI	REMENT		
NO.		UNITS	TECHNICAL REQUIREMENTS	TAPCO	STATUS	CST	STATUS	HAVAYAR	STATUS
	Instrument Transmitter / SWITCH		4-20 mA Hart(Eexia)/ 24 VDC(EEXD) As per project requirement	Yes	А	Yes	А	Yes	А
	Protocol of Serial Link to DCS		redundant Mod Bus RTU or TCP/IP (As per project requirement)	Modbus TCP-IP	А	As per project requirement	А	Yes	А
	Industrial Work station/ lap top / software and licence,		As per project requirement		INA		INA	Yes	А
	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	А	Yes	A	Yes	А
	LCP and Gauge board		required for each train As per project requirement	Yes	А	Yes	А	Yes	Α
	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	А	Yes	А	Yes	А
	PLC model / manufcaturer□	D02	suitable hot redundant/ high available system to meet project requirments	YES (Using iranian to be confirmed by vendor later)	А	YES (Using iranian to be confirmed by vendor later)	А	YES (Using iranian to be confirmed by vendor later)	A
	Ingress Protection for cabinet		As per Final TCL after Meeting		INA		NA		INA



9114-14-14

Special Cables from compressor to UCP

INSTRUMENTATION

شماره پیمان:

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR GAS COMPRESSORS

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

 BK
 GCS
 PEDCO
 120
 ME
 TB
 0001
 D02



شماره صفحه: ۱۷ از ۲۹

Yes

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 HY/00/l/6667 1/10/2022	
EQUI	PMENT TYPE: Reciprocating Compressor		QUOTATION NO:	TAP-99-04-1	8	CS2021-11-3			
но о	F ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/E	3/C	QUOTATION DATE:	2/5/2022		1/26/2022			
NO.	DESCRIPTION	UNITS	TECHNICAL DECLUDEMENTS			MEETS TECHNICAL REQU	REMENT		
NO.		UNITS	TECHNICAL REQUIREMENTS	TAPCO	STATUS	сѕт	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	А	110VAC/230 VAC	А	Yes	А
	Machine Monitoring System(VMS and RTD connected to UCP)		As per TCL		INA	Yes	А	Yes	А
	ELECTRICAL CLASSIFICATION & IP DEGREE:								
	INSTRUMNETS		Zone 2 IIBT4(Eexia or Eexd) and IP 65 minimum.	Yes	А	Yes	А	Exd IIC T4 IP65	А
	LOCAL PANEL / GAUGE BOARD		Zone 2 IIBT4(Eexia or Eexd) and IP 65 minimum.		INA	Yes	А	As per TCL & Clarification	Α
	Instrument Hook-up Tubing, Piping, Manifold, block valves, Fittings and accessories		Required and shall be supplied by vendor	Yes	А	Yes	А	Yes	А
	Sunshade		FOR LCP, FOR OTHER ITEMS	Yes	А	No need (under shelter skid)		Not required for under sheltter	А
	JUNCTION BOX: Ex PROTECTION / COMPLETE WITH GLANDS		Required and shall be supplied by vendor	Yes	А		INA	Yes	А
	Instrument Cables to Junction Boxes/Local Panels and related Cable		Required and shall be supplied by vendor	Yes	Α	ves	А	Yes	А

Shall be supplied by vendor if required

N/A



پروژه

شماره پیمان:

بسته کاری

صادر كننده

PEDCO

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR GAS COMPRESSORS

TB

نىخە سريال نوع مدر ک رشته تىھىلات

0001

D02



شماره صفحه: ۱۸ از ۲۹

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 (ГАРСО)	Compressor Sazi T	abriz	HAVAYAR		
EQUI	PMENT TYPE: Reciprocating Compressor		QUOTATION NO:	TAP-99-04-18		CS2021-11-3		HY/00/I/6667		
ио о	F ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B	3/C	QUOTATION DATE:	2/5/2022		1/26/2022		1/10/2022		
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS		I	MEETS TECHNICAL REQUI	REMENT			
NO.		UNITS	TECHNICAL REQUIREMENTS	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	А	Yes	А	As per API 670 figure H.6	А	
	BEARING TEMPERATURE SENSOR		Required and shall be supplied by vendor	Yes	А	Yes	А	As per API 670 figure H.6	Α	
	WINDING TEMPERATURE SENSOR		Required and shall be supplied by vendor	Yes	А	Yes	Α	As per API 670 figure H.6	Α	
	VIBRATION SENSOR		Required and shall be supplied by vendor	Yes	Α	Yes	А	As per API 670 figure H.6	Α	
	COMPRESSOR'S VALVE TEMP. SENSOR		VTA	Yes	А	No	А	As per API 670 figure H.6	Α	
	ROD DROP DETECTOR (PROXMITY OR CONTACT)		Required and shall be supplied by vendor	Yes	Α	Yes	Α	As per API 670 figure H.6	Α	
	PISTON ROD PACKING TEMP. DETECTOR		VTA	Yes	А	No	А	As per API 670 figure H.6	Α	
	PHASE REFERENCE PROBE (KEYPHASOR)		Required and shall be supplied by vendor	Yes	А	Yes	А	As per API 670 figure H.6	Α	
	PROBES WIRED UPTO LOCAL JB AT EDGE OF SKID		Required and shall be supplied by vendor	Yes	А	Yes	А	Yes	Α	
	COMPLETE MONITORING SYSTEM REQUIREMENT		As per TCL	Yes	А	as per TCL	А	As per API 670 figure H.6		
	VIBRATION SENSOR ON EACH CYLINDER		VTA	As per API 670 figure H.6	Α	As per API 670 figure H.6	А	As per API 670 figure H.6	А	
	LOCAL CONTROL STATION / PANEL & CABLE GLAND		Required and shall be supplied by vendor	Yes	А	qouted	А	Confirmed	А	
	Instrumentation for Lube Oil system		Required and shall be supplied by vendor	Yes	А	Yes	А	Yes	Α	
	Instrumentation for Cooling Water System		Required and shall be supplied by vendor	Yes	Α	Yes	А	Yes	Α	



TEST & INSPECTION

Leak test Test / Helium test

Hydrostatic Test

Inspection and test to be performed as per project requirement in

datasheet, specification and other project documents as minimum

شماره پیمان:

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR GAS COMPRESSORS

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

 BK
 GCS
 PEDCO
 120
 ME
 TB
 0001
 D02



شماره صفحه: ۱۹ از ۲۹

Confirmed (refer to TCL)

Yes

Α

REQ.	NAME: Material Requisition for Gas Compressor package		BIDDER:	"А	n .	"B"		"C"	
REF.	REQ. NO.: BK-GCS-PEDCO-120-ME-MR-0001		NAME:	Tajhiz Arg Par	sian (TAPCO)	Compressor Sazi	Tabriz	HAVAYAR	
EQUI	PMENT TYPE: Reciprocating Compressor		QUOTATION NO:	TAP-99	-04-18	CS2021-11-3	3	HY/00/I/6667	
но о	F ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B	s/C	QUOTATION DATE:	2/5/2	022	1/26/2022		1/10/2022	
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS			MEETS TECHNICAL REQ	UIREMENT		
NO.		UNITS	TECHNICAL REQUIREMENTS	D02 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	А
	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	А	Yes	А
	Scope of supply on 2003 Voting for Pressure & TemperatureTransmitter:		as per project data sheet and P&ID	see PID	А	see PID	А	see PID	А
	Suction Pressure Low Low (First stage)		as per project data sheet and P&ID	see PID	А	see PID	А	see PID	Α
	Discharge Pressure High High (Final stage)		as per project data sheet and P&ID	see PID	А	see PID	А	see PID	А
	Discharge Pressure High High (inter stage)		as per project data sheet and P&ID	see PID	A	see PID	А	see PID	А
	Discharge Temperature High High (Each stage)		as per project data sheet and P&ID	see PID	А	see PID	А	see PID	А
	Lube oil Pressure Low Low		as per project data sheet and P&ID	see PID	А	see PID	А	see PID	А

Yes

Yes

Yes

Α

Α

Yes

Yes

Yes

Α

Α

Required and shall be done by vendor

Required and shall be done by vendor

Required and shall be done by vendor



شماره پیمان:

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR GAS COMPRESSORS

انخه سريال نوع مدرک رشه تسهيلات صادرکننده بسته کاری پروژه BK GCS PEDCO 120 ME TB 0001 D02



شماره صفحه: ۲۰ از ۲۹

REQ. NAME: Material Requisition for Gas Compressor package			BIDDER:	"A" Tajhiz Arg Parsian (TAPCO)		"B" Compressor Sazi Tabriz		"C"		
REF.	REF. REQ. NO. : BK-GCS-PEDCO-120-ME-MR-0001 EQUIPMENT TYPE: Reciprocating Compressor NO OF ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B/C QUOTATION DATE:									
EQUII				TAP-99-04-18			CS2021-11-	3	HY/00/I/6667	
но о				2/5/2022			1/26/2022		1/10/2022	
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS				MEETS TECHNICAL REQ	UIREMENT		
NO.		UNITS	TECHNICAL REQUIREMENTS	002 TAPCO		STATUS	CST	STATUS	HAVAYAR	STATUS
	Mech Run test (4hr)		Required and shall be done by vendor	Yes		А	Yes	А	Yes	Α
	Sound Level Test		Required and shall be done by vendor	Yes		А	Yes	А	Yes	Α
	Dismantling Inspection After Running Test		Required and shall be done by vendor	Yes		А	Yes	А	NO	NA
	BAR-OVER TO CHECK ROD RUNOUT		Required and shall be done by vendor	Yes		Α	Yes	А	NO	NA
	CYL. JACKET WATER HYDRO TEST		Required and shall be done by vendor	Yes		А	Yes	А	Yes	Α
	LUBE OIL CONSOLE RUN TEST		Required and shall be done by vendor	Yes		Α	Yes	А	Yes	А
	ACTUAL. RUNNING CL.EARANCESAND RECORDS		Required and shall be done by vendor	Yes		Α	Yes	А	NO	NA
	COOLING H20 CONSOLE RUN TEST		Required and shall be done by vendor	Yes		Α	Yes	А	Yes	А
	CLEANLINESS OF EQUIP., PIPING, & APPURTENANCES		Required and shall be done by vendor	Yes		Α	Yes	А	Yes	Α
	SHOP FIT-UP OF PULSATION SUPPL. DEVICES & ALL ASSOCIATEDGAS		Required and shall be done by vendor	Yes		А	Yes	А	Yes	Α
	HARDNESS OF PARTS, WELDS & HEAT AFFECTED ZONES		Required and shall be done by vendor	Yes		А	certificate only	А	Yes as applicable. (Will be finalized after PO during PIM)	А
	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		А	Yes	А	Yes	А



9114-14-14

شماره پیمان:

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR GAS COMPRESSORS

نىخە سريال نوع مدرك رشته تىھىلات صادركىندە بىتە كارى پروژه BK GCS PEDCO 120 ME TB 0001 D02



شماره صفحه: ۲۱ از ۲۹

REQ. NAME: Material Requisition for Gas Compressor package			BIDDER: "A"		"B"		"C"		
REF.	REF. REQ. NO. : BK-GCS-PEDCO-120-ME-MR-0001 NAME:			Tajhiz Arg Parsian (TAPCO)	Compressor Sazi T	abriz	HAVAYAR	
EQUI	PMENT TYPE: Reciprocating Compressor	QUOTATION NO:	TAP-99-04-18		CS2021-11-3		HY/00/I/6667		
но о	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 DECLIDEMENTS		I	MEETS TECHNICAL REQUI	REMENT		
NO.		UNITS	TECHNICAL REQUIREMENTS DO2	TAPCO	STATUS	CST	STATUS	HAVAYAR	STATUS
	Torsional analysis		Required and to be done by vendor	Yes	А	yes	А	Yes	Α
	The guarantee period twelve (12) months from start-up or eighteen (18) months from delivery date.		To be followed by vendor	Yes	А	yes	А	Yes	А
	References List		as per MR	Yes	А	yes	Α	Yes	Α
	UTILITY DATA AS PER PROJECT SPECIFICATION		Project specification to be followed by vendor	Yes	А	Noted	Α	Yes	Α
	SITE DATA AS PER PROJECT SPECIFICATION		Project specification to be followed by vendor	Yes	А	Noted	Α	Yes	Α
	LOOSE ITEMS AND RELATED SCOPE		as per MR, its attachment and TCL Required and to be supplied by vendor	Yes	А	as per TCL	А	Yes	Α
	BASEPLATE / SKID		Required and to be supplied by vendor	Yes (motor is seperated)	Α	Not supported by skid	А	Yes (motor is seperated)	Α
	MAX ALLOWABLE NOISE LEVEL		Less than 85dBA @ 1m To be followed by vendor	Yes	А	Yes	А	Yes	А
	INSULATION		Shall be supplied by vendor if required in BL	Yes	А	Yes	А	Yes	Α
	Heat Tracing		Shall be supplied by vendor if required in BL	Yes	А	Yes	Α	Yes	А
	On Skid Piping		Shall be supplied by vendor As per MR and TCL	Yes	А	Not supported by skid	А	Yes	А



شماره پیمان:

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR GAS COMPRESSORS

ا نبخه سریال نوع مدرک رشته تمهیلات صادر کننده بسته کاری پروژه BK GCS PEDCO 120 ME TB 0001 D02



شماره صفحه: ۲۲ از ۲۹

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 T	abriz	HAVAYAR		
EQUI	PMENT TYPE: Reciprocating Compressor	QUOTATION NO:	TAP-99-04-18		CS2021-11-3		HY/00/I/6667		
но о	FITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/E	QUOTATION DATE:	2/5/2022		1/26/2022		1/10/2022		
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS		ı	MEETS TECHNICAL REQUI	REMENT		
NO.		UNITS	TECHNICAL REQUIREMENTS	TAPCO	STATUS	CST	STATUS	HAVAYAR	STATUS
	Between Skid Piping		Shall be supplied by vendor As per MR and TCL	Yes	А	Yes	А	Yes	Α
	SPREADER BAR / FRAME C/W SHACKLES AND ROPES		Required and to be supplied by vendor	Yes	А	Yes	А	Yes	Α
	SPECIAL TOOLS		Required and to be supplied by vendor	Yes	А	Yes	А	Yes	Α
	INSTALLATION MATERIAL (ANCHOR BOLT, SHIM PLATE, JACK SCREW,)		Required and to be supplied by vendor	Yes	А	Yes	А	Yes	А
	COMMISSIONING, START UP SPARE PARTS (as min as per project spare part list)		Required and to be supplied by vendor	Yes	А	Yes	А	Yes	А
	2-YEAR OPERATION SPARE PARTS (as min as per project spare part list)		Required and to be supplied by vendor (As Option)	Yes	А	Yes	А	Yes	А
	Capital Spares		as per MR	Yes	Α	N/A	Α	N/A	Α
	PACKING, MARKING AND PRESERVATION		Required and to be provided by vendor As per MR and TCL	Yes	А	Yes	А	Yes	А
	LIST OF DEVIATIONS / EXCEPTIONS		As per TCL	Yes	Α	Yes	А	Yes	Α
	SUB-VENDORS LIST		Project AVL shall be followed by vendor	Yes	А	See subvendor list	CA	Yes	А
	PAINTING AS PER PROJECT SPECIFICATION (SS NOT PAINTED)		Shall be done by vendor As per project spec.	Yes	А	Mfr std	CA	Yes	Α



پروژه

شماره پیمان:

بسته کاری

صادر كننده

PEDCO

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR GAS COMPRESSORS

نىخە سريال نوع مدر ك رشته تىھىلات 120 ME TB 0001 D02



شماره صفحه: ۲۳ از ۲۹

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		
EQUI	PMENT TYPE: Reciprocating Compressor	QUOTATION NO:	TAP-99-04-1	8	CS2021-11-3		HY/00/I/6667		
NO C	F ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/E	QUOTATION DATE:	2/5/2022		1/26/2022		1/10/2022		
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS		l	MEETS TECHNICAL REQU	IREMENT		
NO.		UNITS	TECHNICAL REQUIREMENTS	TAPCO	STATUS	CST	STATUS	HAVAYAR	STATUS
	PICKLING AND PASSIVATION		Shall be done by vendor As per project requirement.	If applicable	А	if applicable	А	if applicable	А
	TRANSPORTATION LIMITS CONSIDERED		as per MR	Yes	А	Yes	А	Yes	А
	ESTIMATED TOTAL WEIGHT (Ton)		VTA	To be provided later	А	To be provided later	А	To be provided later	А
	NAME PLATE		Required and to be supplied by vendor	Yes	А	Yes	А	Yes	А
	SHOP AND FIELD TRAINING (PER DIEM)		To be done by vendor (As Option)	Yes	А	Yes	А	Yes	А
	SUPERVISION FOR INSTALLATION (PER DIEM)		To be done by vendor (As Option)	Yes	А	Yes	А	Yes	А
	SUPERVISION FOR ERECTION, COMMISSIONING AND START UP (PER DIEM)		To be done by vendor (As Option)	Yes	А	Yes	А	Yes	А
	COMPLETE UNIT TEST AT SITE		To be done by vendor (As Option)	Yes	А	Yes	А	Yes	А
	PERFORMANCE TEST AT SITE		To be done by vendor (As Option)	Yes	А	Yes	А	Yes	А
	WIRING AND TUBING TO JUNCTION BOX WITHIN BASEPLATE(S)		Required and to be supplied by vendor	Yes	А	Yes	А	Yes	А
	Coupling		Dry, flexible metallic disc coupling with spacer Required and to be supplied by vendor	Yes	А	Yes	А	Yes	А
	Coupling Guard		Non-spark guard Required and to be supplied by vendor	Yes	А	Yes	А	Yes	А



شماره پیمان:

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR GAS COMPRESSORS

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

 BK
 GCS
 PEDCO
 120
 ME
 TB
 0001
 D02



شماره صفحه: ۲۲ از ۲۹

						Ī			
REQ.	NAME: Material Requisition for Gas Compressor package	BIDDER:	"A"	"A"			"C"		
REF.	REQ. NO.: BK-GCS-PEDCO-120-ME-MR-0001	NAME:	Tajhiz Arg Parsian (TAPCO) TAP-99-04-18		Compressor Sazi Tabriz CS2021-11-3		HAVAYAR HY/00/V6667		
EQUI	PMENT TYPE: Reciprocating Compressor	QUOTATION NO:							
NO O	F ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B	QUOTATION DATE:	2/5/2022		1/26/2022		1/10/2022		
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS		ı	MEETS TECHNICAL REQUI	REMENT		
NO.		UNITS	TECHNICAL REQUIREMENTS	TAPCO	STATUS	CST	STATUS	HAVAYAR	STATUS
	Barring device with limit switch/ BARRING DEVICE TYPE (MANUAL / PENUMATIC / ELECTRIC)		Electrical Motor Required and to be supplied by vendor	Yes	А	Yes	А	Yes	А
	Flywheel		Required and to be supplied by vendor	Yes	А	Yes	А	Yes	Α
	Flywheel guard		Non-spark guard Required and to be supplied by vendor	Yes	А	Yes	А	Yes	А
	FLYWHELL LOCKING DEVICE		Required and to be supplied by vendor	Yes	А	Yes	А	Yes	Α
	Pulsation study (Approach 1/2/3)		Approach 3 Required and to be done by vendor	Yes	А	Yes	А	Yes	А
	STUDY TO CONSIDER:		as per datasheet and spec.	Yes	А	Yes	А	Yes	Α
	Temporary and permanent strainer(s) at each stage inlet		Required and to be supplied by vendor	Yes	А	yes	Α	Yes	Α
	Differential pressure gauge for suction stainer spool piece		Required and to be supplied by vendor	Yes	А	yes	Α	Yes	Α
	Temp.guage(TG) for CW inlet		Required and to be supplied by vendor	Yes	А	Yes	Α	Yes	Α
	FLOW INDICATOR , TRV for CW OUTLET		Required and to be supplied by vendor	Yes	А	Yes	А	Yes	Α
	Filter, PCV, PSV, diff.pressure transmitter with indicator, flow indicator for N2		Required and to be supplied by vendor	Yes	А	Yes	А	Yes	А



شماره پیمان:

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR GAS COMPRESSORS

انىخە سريال نوع مدرك رشته تىھىلات صادركىندە بىتە كارى پروۋە BK GCS PEDCO 120 ME TB 0001 D02



شماره صفحه: ۲۵ از ۲۹

REQ.	NAME: Material Requisition for Gas Compressor package	BIDDER: "A"			"B"		"C" HAVAYAR HY/00/V6667		
REF.	REQ. NO. : BK-GCS-PEDCO-120-ME-MR-0001	NAME:	Tajhiz Arg Parsian (TAPCO)		Compressor Sazi T	abriz			
EQUI	PMENT TYPE: Reciprocating Compressor	QUOTATION NO:	TAP-99-04-18		CS2021-11-3				
NO O	F 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		ı	MEETS TECHNICAL REQUI	REMENT		
140.		ONITS	TECHNICAE REQUIREMENTS	TAPCO	STATUS	CST	STATUS	HAVAYAR	STATUS
	Filter, PCV, PSV, Dlff.pressure transmitter with indicator for instrument air		Required and to be supplied by vendor	Yes	А	Yes	А	Yes	А
	Distance Piece Collection Pot		Required and to be supplied by vendor	Yes	А	Yes	А	Yes	Α
	Packing Leakage Collection Pot		Required and to be supplied by vendor	Yes	А	Yes	А	Yes	Α
	RELIEF VALVE (S):								
	INITIAL INLET		Required and to be supplied by vendor	Yes	А	No	NA	No	NA
	INTER SATGE		Required and to be supplied by vendor	Yes	А	Yes	А	Yes Location might be on snubber	А
	FINAL DISCHARGE		Required and to be supplied by vendor	Yes	А	Yes	А	Yes Location might be on snubber	А
	CRANK CASE RAPID PRESSURE RELIEF DEVICE		Required and to be supplied by vendor	Yes	А	Yes	А	No	NA
	COMPRESSOR VALVE DYNAMIC RESPONSE		Required and to be done by vendor	Yes	А	Yes	Α	Yes	Α
	PERFORMANCE DATA REQUIRED:								
	BHP VS. SUCTION PRESSURE CURVES		Required and to be provided by vendor	Yes	А	will be provide after PO	Α	will be provide after PO	Α
	ROD LOAD /GAS LOAD CHARTS		Required and to be provided by vendor	Yes	А	will be provide after PO	Α	will be provide after PO	Α



شماره پیمان:

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR GAS COMPRESSORS

نبخه سریال نوع مدر ک رشته تمهیلات صادر کننده بسته کاری پروژه BK GCS PEDCO 120 ME TB 0001 D02



شماره صفحه: ۲۱ از ۲۹

REQ.	REQ. NAME: Material Requisition for Gas Compressor package		BIDDER:	"A" Tajhiz Arg Parsian (TAPCO) TAP-99-04-18		"B" Compressor Sazi Tabriz CS2021-11-3		"C" HAVAYAR HY/00/V6667	
REF.	REQ. NO.: BK-GCS-PEDCO-120-ME-MR-0001	NAME:							
EQU	PMENT TYPE: Reciprocating Compressor	QUOTATION NO:							
NO C	F ITEMS INCLUDED IN REQUISITION: C-2101 & C2102 A/B	QUOTATION DATE:	2/5/2022		1/26/2022		1/10/2022		
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS		ı	MEETS TECHNICAL REQU	REMENT		
NO.		UNITS	TECHNICAL REQUIREMENTS	TAPCO	STATUS	CST	STATUS	HAVAYAR	STATUS
	VALVE FAILURE CHARTED		Required and to be provided by vendor	Yes	А	will be provide after PO	А	will be provide after PO	А
	SPEED TORQUE CURVE DATA		Required and to be provided by vendor	Yes	А	will be provide after PO	Α	will be provide after PO	Α
	Legends:								
	A = ACCEPTABLE (TECHNICALLY MEETS REQUIREMENT)								
	NA= NOT ACCEPTABLE (TECHNICALLY DOES NOT MEET REQ	UIREMENT)							
	CA= Conditionally Accepted								
	INA = INFORMATION NOT AVAILABLE								
	N/A = NOT APPLICABLE								