



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



TBE FOR FLARE PACKAGES

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

ME

نوع مدرک

TB

سریال

0012

نسخه

D00

شماره صفحه: ۱ از ۹

طرح نگهداشت و افزایش تولید ۲۷ مخزن

TBE FOR FLARE PACKAGE

نگهداشت و افزایش تولید میدان نفتی بینک

D00	NOV.2023	IFI	H.Ghadyani	M.Fakharian	S.Faramarzpour	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

Class: 3

CLIENT Doc. Number: F0Z-709238

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	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک							 	
	TBE FOR FLARE PACKAGES								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	پروژه BK	بسته کاری GCS	صادر کننده PEDCO	تسهیلات 120	رشته ME	نوع مدرک TB	سریال 0012	نسخه D00	شماره صفحه: ۱ از ۹

REVISION RECORD SHEET

Page	D00	D01	D02	D03	D04	Page	D00	D01	D02	D03	D04
1	X					65					
2	X					66					
3	X					67					
4	X					68					
5	X					69					
6	X					70					
7	X					71					
8	X					72					
9	X					73					
10						74					
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62						126					
63						127					
64						128					

 NISOC	تگداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف توکیم گاز در ایستگاه جمع آوری بینک TBE FOR GAS FLARE PACKAGES							 	
	نسخه	سریال	نوع مدرک	رشته	تجهیزات	صادرکننده	بسته کاری	پروژه	شماره صفحه: ۹ از ۳
	D00	0012	TB	ME	120	PEDCO	GCS	BK	
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴									

REQ. NAME: Material Requisition for Flare packages			BIDDER:	"A"		"B"		"C"		"D"	
REF. REQ. NO. : BK-GCS-PEDCO-120-ME-MR-0012			NAME:	Machin Foulad Jonoub		Masnouat Felezi Sangin		Takestan		Tehranjavan	
EQUIPMENT TYPE: Flare packages			QUOTATION NO.:	T-02-255-TB-FB-FL-GEN-005		1402/03-MFS-TC01-BHE-1362		Q1402-03		TJFG/TO/485	
NO OF ITEMS INCLUDED IN REQUISITION: FST-2201, IG-2201			QUOTATION DATE:	23.SEP.2023		22.OCT.2023		20, Aug.2023		13.NOV.2023	
NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS	MEETS TECHNICAL REQUIREMENT							
				DESCRIPTION	STATUS	DESCRIPTION	STATUS	DESCRIPTION	STATUS	DESCRIPTION	STATUS
1. GENERAL											
1.1	Scope of Supply and Work	NO.	Material Requisition	ok	N	Noted & Confirmed.	Y	Confirm	Y	Confirm	Y
1.2	Codes and Standards	-	Material Requisition	ok	N	Noted & Confirmed.	Y	Confirm	Y	Confirm	Y
1.3	Reference List	-	to be Supplied by Bidder	ok	N	Please find it as attached.	Y	Confirm	Y	Please find in part K of technical offer	Y
1.4	Quality Assurance and Relevant Certificates	-	to be Supplied by Bidder	ok	N	Please find it as attached.	Y	Confirm	Y	Please find in part J of technical offer	Y
1.5	Any Deviation List From MR and Its Attachments.	-	Material Requisition	ok	N	Please find it as attached.	Y	Confirm	N	As per attached	Y
1.6	Warrant the engineering, materials and workmanship of the Package.	-	The guarantee period shall be eighteen (18) months from the date of delivery or twelve (12) months from the installation date of each equipment/packages at site.	Confirm	Y	Noted & Confirmed.	Y	Confirm	Y	Confirm	Y
1.7	Design Life	-	20 Years	Confirm	N	Noted & Confirmed.	Y	Confirm	Y	20 Years	Y
1.8	Vendor shall Guarantee the dispersion study for flaring gas composition	-	to be defined and guaranteed by Bidder	Confirm	N	Dispersion analysis will send after PO but dispersion guarantee is not in scope of MFS.	N	Confirm	Y	Confirm	Y
1.9	Delivery Time and Time Schedule	-	to be Dfined by Bidder	see proposal	Y	Please find it as attached.	Y	Confirm	Y	Please find in parts M and N of technical offer	Y
1.10	Delivery Condition and Place	-	to be Dfined by Bidder	Confirm	Y	EXW - MFS Shop	Y	Confirm	Y	Ex-work	Y
1.11	Erection , Commissioning and 2 Years Spare	-	AS per Project specification NO. E&C-QC-SP-1	Confirm	Y	Noted & Confirmed.	Y	Confirm	Y	Confirm	Y
1.12	Performance Guarantee Based on Duty Specification and Mechanical Specification	-	Duty Specification and Mechanical Specification	Confirm	Y	Noted & Confirmed.	Y	Confirm	Y	Confirm	Y
2. MECHANIC											
2.1	Stack Support	-	To be Defined By Bidder	GUYED	Y	Guy Wire	Y	GUY WIRE	Y	Guy Wire	Y

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2.2	Stack Height (linclude Tip Height)	m	22.5(Vendor to be verified)	Confirm	Y	22.5	Y	15 M ACCORDING TO CALCULATIONS	Y	22.2	Y
2.3	Stack Size(Diameter)	inch	12"	Confirm	Y	16"	Y	12"	Y	12"	Y
2.4	Flare Stack Material(as minimum)	-	C.S.+3mm(VTA)	Confirm	Y	Noted & Confirmed.	Y	C.S. +3mm	Y	API 5L Gr. B or Equal	Y
2.5	Flare Tip Length	m	3	3 m	Y	3	Y	3 M	Y	3.16	Y
2.6	Flare Tip Size	inch	12"	Confirm	Y	12"	Y	12"	Y	12"	Y
2.7	Flare Tip Material	-	S.S.310(VTC)	Confirm	Y	Noted & Confirmed.	Y	S.S.310	Y	S.S.310	Y
2.8	Number of Pilot	-	Min. 3 Pilot	Confirm	Y	3	Y	CONFIRM	Y	3	Y
2.9	Pilot Material	-	S.S.304(VTC)	Confirm	Y	Noted & Confirmed.	Y	S.S.304	Y	S.S.310	Y
2.10	Ignition Type and System	-	High Energy Generator	Confirm	Y	Noted & Confirmed.	Y	CONFIRM	Y	High Energy Generator	Y
2.11	Flare Burner Internal Lining	-	To be Defined By Bidder	Confirm	N	Not Applicable.	N	2"	Y	Not Applicable	Y
2.12	Flare Gas Seal Type	-	Dynamic seal	Confirm	N	Noted & Confirmed.	Y	CONFIRM	Y	Dynamic seal	Y
2.13	Flare Gas Seal Material	-	To be Defined By Bidder	Confirm	N	SS 304	Y	stainless steel	Y	S.S.310	Y
2.14	Distance Between Ignition Panel and Pilot Burners	m	100 m	Confirm	N	Noted & Confirmed.	Y	CONFIRM	Y	100 m	Y
2.15	Corrosion allowance	mm	No Corrosion allowance for SS Corrosion allowance of Flare Gas and Fuel gas shall be 6mm same as Flare Entrance	Confirm	Y	Noted & Confirmed.	Y	CONFIRM	Y	Confirm	Y
2.16	Design Life for flare Tip	years	25 years	Confirm	N	Noted & Confirmed.	Y	CONFIRM	Y	25 years	Y
3. PROCESS											
3.1	F Factor Method	-	High Efficiency Method	Confirm	N	Generic Pipe	N	Generic Pipe	Y	User Specified	Y
3.2	Transmissivity Factor	-	To be Defined By Bidder	Confirm	N	Wayne	Y	Calculated Min Value 1.000 Max Value 1.000	Y	User Specified	Y
3.3	Heat Release	-	To be Defined By Bidder	Confirm	N	397271 kW	Y	345416.3 Kw	Y	397,271	Y

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	TBE FOR GAS FLARE PACKAGES								
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شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	D00	0012	TB	ME	120	PEDCO	GCS	BK	

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3.4	Noise Level at Normal and Emergency Condition	dB	85 / 115	Confirm	Y	Noted & Confirmed.	Y	CONFIRM	Y	77.73 (for 15% emergency flowrate @ 40 m from stack base)	Y
3.5	Solar Radiation	kw/m2	1.01	Confirm	N	1.010 kW/m2	Y	CONFIRM	Y	1.01	Y
3.6	Wind Velocity for Radiation Calculations	m/s	10	Confirm	N	10 m/s	Y	CONFIRM	Y	10	Y
3.7	Allowable Pressure Drop	-	To be Defined By Bidder	Confirm	N	0.1 bar	Y	Tip Pressure Drop 0.015 bar Tip Total Pressure Drop 0.013 bar	Y	0.1	Y
3.8	Mach Number	-	0.5	Confirm	Y	0.4122	Y		Confirm	Y	0.2642
3.9	Design Temperature	-	As Per BK-GNRAL-PEDCO-000-PR-DC-0001	Confirm	N	297 C	Y	Confirm	Y	297	Y
3.1	Design Pressure	bar(g)	3.5	Confirm	N	3.5 barg	Y	Confirm	Y	3.5	Y
3.11	Flow Rate	-	As Per BK-GCS-PEDCO-120-PR-RT-0002	Confirm	N	39824 kg/h	Y	Confirm	Y	39,824	Y
3.12	Smokeless Capacity	kg/hr	9944	Confirm	N	25%	Y	Confirm	Y	9,844	Y
3.13	Flare GasTemperature	-	As Per BK-GCS-PEDCO-120-PR-RT-0002 BK-GCS-PEDCO-120-PR-SP-0003	Confirm	N	272 C	Y	Confirm	Y	272	Y
3.14	Pilot Gas Flow Rate	Nm3/h	To be Defined By Bidder	Confirm	N	7.5 Nm3/h	Y	-	N	1.74x3=5.22	Y
3.15	Pilot Gas Pressure	-	To be Defined By Bidder	Confirm	N	1.1	Y	1.1 Barg	Y	1	Y
3.16	Pilot Gas Temperature	-	To be Defined By Bidder	Confirm	N	36	Y	57 C	Y	48	Y
3.17	Utility Consumptions: Fuel Gas LPG Instrument Air Nitrogen Power Steam	-	To be Defined By Bidder	Confirm	Y	please refer to our revised T.P, T.D. section 7	N	Fuel Gas LPG Instrument Air Nitrogen Power Steam	Y	please refer to our revised T.P, T.D. section 7	
3.18	Air flow for Smokeless	kg/hr	Yes/ 9444	Confirm	Y	24019 kg/h	N	3900 m3/hr	N	24,000	Y
3.19	Air pressure for Smokeless	PSI	To be Defined By Bidder	Confirm	N	Atmospheric	Y	-		10	Y

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3.20	Smokeless criteria	-	As Per BK-GCS-PEDCO-120-PR-RT-0002 BK-GCS-PEDCO-120-PR-SP-0003	Confirm	Y	25% smokless with air	Y	Confirm	Y	Ringelmann 1	Y
3.21	Maximum radiant intensities at ground level for cumulated flowrate	Kw/m²	AS PER BK-GCS-PEDCO-120-PR-RT-0024_D04	Confirm	Y	Confirm	Y	Confirm	Y	7.055 @ 10 m from stack base	Y
3.22	Maximum radiant intensities at ground leve	Kw/m²	AS PER BK-GCS-PEDCO-120-PR-RT-0024_D04	Confirm	N	Confirm	Y	Confirm	Y	7.055 @ 10 m from stack base	Y
3.23	Radius of sterile area from stack based on 4.73 Kw/m² radiation intensity.	m	AS PER BK-GCS-PEDCO-120-PR-RT-0024_D04	Confirm	Y	4.73	Y	Confirm	Y	40	Y
3.24	Flare Monitoring		Yes	Confirm	Y	Noted & Confirmed. Via Thermocouple.	Y	Confirm	Y	By Client	N
3.25	Flare Restricted area affected zone by toxic gas dispersion (m)	m	Not Reached	Confirm	Y	Dispersion analysis will send after PO	Y	Confirm	Y	Not Reached	Y
3.26	Gas Back Up (LPG Bottle for Pilot)	Hr	24	Confirm	Y	Noted & Confirmed.	Y	Confirm	Y	12	N
3.27	Automatic Re-Ignation System	-	Yes	Confirm	Y	Noted & Confirmed.	Y	Confirm	Y	Yes	Y
3.28	Internal Combustion Detector	-	Yes	Confirm	Y	Noted & Confirmed. Please refer to our revised P&ID	Y	Confirm	Y	Not Applicable	Y
4. Electrical Requirements											
4.1	Design electrical specification as per JOB SPECIFICATION FOR DESIGN ELECTRICAL INSTALLATION IN PACKAGES.	-	BK-GNRAL-PEDCO-000-EL-DC-0001	Confirm	Y	Noted & Confirmed.	Y	Confirm	Y	Confirm	Y
4.2	Design and supply of ACWL Local control panel and distribution board shall be in accordance withAnnex 14 of ICAO; JOB SPECIFICATION FOR SUPPLY DISTRIBUTION PANELS.	-	According to Annex 14 of ICAO (Manufacture Standard)	Confirm	Y	We don't have Air Craft Warning Lighting, Because the flare stack is less than 30 meters.	Y	Confirm	Y	Confirm	Y
4.3	Electrical voltage and phase	-	400/230 V ±5 %, 50 Hz ±2 %,	Confirm	Y	Noted & Confirmed.	Y	Confirm	Y	Confirm	Y

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4.4	Degree of protection	-	Motor: IP 54 Terminal Box of Motor: IP 55 LCS/LCP: IP 65	Confirm	Y	Noted & Confirmed.	Y	Confirm	Y	Confirm	Y
4.5	Hazardous Area Classification	-	Safe Area	Confirm	Y	Noted & Confirmed.	Y	Confirm	Y	Fuel gas entering the ignition panel makes it a hazardous area.	Y
4.8	Air Blower Power Rated & Quantity	KW/ No	to be Dfined by Bidder	Confirm	Y	29KW/1QTY	Y	Confirm	Y	30 / 1	Y
4.9	Air Blower VFD Quntity	-	if Required	Confirm	Y	No Required	Y	1	Y	Flow rate control by inlet guide vane damper	Y
4.10	Electrical specification of VFD	-	if Required	Confirm	Y	No Required	Y	-	Y	Not Applicable	Y
4.11	VFD Manufacturer	-	if Required	Confirm	Y	Not Applicable.	Y	-	Y	Not Applicable	Y
5. Instrument											
5.1	Remote control for flare ignition	-	Required as per Project P&ID	Confirm	Y	Noted & Confirmed.	Y	Confirm	Y	Confirm	Y
5.2	control system type	-	TYPE A as per project Spec. BK-GNRAL-PEDCO-000-IN-SP-0004	Confirm	Y	Noted & Confirmed.	Y	Confirm	Y	Confirm	Y
5.3	Temprature indicators on ignition panels	-	Required as per Project P&ID	Confirm	Y	Noted & Confirmed.	Y	Confirm	Y	Not Required	N
5.4	K type thermocouples dual type for each pilots	-	Required as per Project P&ID	Confirm	Y	Noted & Confirmed.	Y	Confirm	Y	Confirm	Y
5.5	Number of thermocouple	-	3 Nos.	Confirm	Y	Noted & Confirmed.	Y	Confirm	Y	3 NO.	Y
5.6	Area Clasification/IP rating	-	Zone 2 / IP65	Confirm	Y	Noted & Confirmed.	Y	Confirm	Y	Confirm	Y
5.7	Explosive Proof Grade	-	EEx requirments	Confirm	Y	Noted & Confirmed.	Y	Confirm	Y	Exde	Y
5.8	Thermocouple cable (from flare tip to IGP, Estimated length 250)	-	Required as per Project P&ID	Confirm	Y	Noted & Confirmed.	Y	Confirm	Y	Confirm	Y
5.9	Flame detector for pilots	-	Required as per Project P&ID	Confirm	Y	Noted & Confirmed. Via Thermocouple.	Y	Confirm	Y	Thermocouple	Y
5.10	Pilot status indication on ignition panel	-	Required as per Project P&ID	Confirm	Y	Noted & Confirmed.	Y	Confirm	Y	Confirm	Y
5.11	on/off push button for pilots on ignition panel	-	Required as per Project P&ID	Confirm	Y	Noted & Confirmed.	Y	Confirm	Y	Confirm	Y
5.12	ll instrumentation, tube& fitting , Jb, Cable , earthing,... inside package ski	-	Required as per Project documents	Confirm	Y	Noted & Confirmed.	Y	Confirm	Y	Confirm	Y

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NO.	DESCRIPTION	UNITS	TECHNICAL REQUIREMENTS	MEETS TECHNICAL REQUIREMENT							
				DESCRIPTION	STATUS	DESCRIPTION	STATUS	DESCRIPTION	STATUS	DESCRIPTION	STATUS
7.1	Foundation load at base plate and gravity center location and anchor bolt arrangement shall be provided by Vendor.		Required	Confirm	Y	Noted & Confirmed.	Y	Confirm	Y	Confirm	Y
7.2	Structural Steel Material is (ISIRI 14262-2 (S235JR).		According to ISIRI 14262-2 (S235JR)	Confirm	Y	Noted & Confirmed.	Y	Confirm	Y	Confirm	Y
7.3	Structural bolts material is (Bolt Class 8.8 Grade B acc. to ISIRI 2874-1 Galvanized. Nut Class 8 Style 2 Grade B acc. to ISIRI 5654 and ISIRI 9737 Galvanized Washer 200 HV acc. to ISIRI 9742 Galvanized shall be considered for all bolts.		According to ISIRI 2874-1 , ISIRI 5654 and ISIRI 9737 , ISIRI 9742	Confirm	Y	ST-37	Y	Confirm	Y	Confirm	Y
7.4	Loading and design of structure shall be done according to structurral design criteria "BK-GNRAL-PEDCO-000-ST-DC-0001".		According to "BK-GNRAL-PEDCO-000-ST-DC-0001".	Confirm	Y	A 325	Y	Confirm	Y	Confirm	Y
7.5	Canopy for motors which are exposed to sun light shall be considered		Required	Confirm	Y	Noted & Confirmed.	Y	Confirm	Y	Confirm	Y
7.6	For all structural parts ASCE7-5 and AISC loading and design requirements shall be considered more than codes specified in datasheets.		Required	Confirm	Y	Noted . H.D.G will be used.	Y	Confirm	Y	Confirm	Y
8. SPARE PARTS											
8.1	Spare parts for pre commissioning and commissioning	-	As per E&C-QC-SP-1	Confirm	Y	Noted & Confirmed.	Y	Confirm	Y	Confirm	Y
8.2	Spare parts list for two (2) years operation {Option}	-	As per E&C-QC-SP-1	Confirm	Y	Noted & Confirmed.	Y	Confirm	Y	Confirm	Y
8.3	Capital spare parts {Option}	-	Bidder To Specify	Confirm	N	Not Applicable.	Y	Not Required	Y	Confirm	Y
9. EXCEPTION & DEVIATION											
9.1	Filled in and signed off deviation form	-	Y / N / N.A.	Confirm	N	Noted & Confirmed.	Y	Confirm	N	Confirm	Y
10. DELIVERY AND SHIPMENT											
10.1	Delivery term	-	Bidder To Specify	Confirm	A	EXW	Y	6 Months and delivered form the factory	N	Ex-work	Y
10.2	Delivery time	-	Bidder To Specify	Confirm	A	12 months after receiving down payment and	Y	6 months	N	9 months	Y
FINAL CONCLUSION				ACCEPTED		ACCEPTED		ACCEPTED		ACCEPTED	

Notes:

1) ABBREVIATIONS: Y: ACCEPTED By Bidder, N: NOT ACCEPTED By Bidder, N.A.: NOT APPLICABLE