



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

اره پیمان:	شم
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	TBE	FOR POV	VER & CO	ONTRO	OL CABLES	6	
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه
BK	GCS	PEDCO	120	EL	TB	0014	D00

شماره صفحه: ۱ از ۱۵

طرح نگهداشت و افزایش تولید 27 مخزن

TBE FOR POWER & CONTROL CABLES

نگهداشت و افزایش تولید میدان نفتی بینک

D00	Aug.2024	IFI	H.Shakiba	M.Fakharian	M.Sadeghian	
Rev.	Date	Purpose of Issue/Status	Prepared by:	Checked by:	Approved by:	Client Approval
Class:3		Client Doc. Number: F0Z-	709354			

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



111P - 471 - 411F

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

HIRGAN ENERGY

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

	THE FOR POWER & CONTROL CABLES						
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه
BK	GCS	PEDCO	120	EL	TB	0014	D00

شماره صفحه : ۲٪ از ۱۵٪

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.04 - . 14 - 4114

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:			TBE	FOR POWER & CONT	ROL CABLES			
	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدر ک	سريال	نسخه
	ВК	GCS	PEDCO	120	EL	ТВ	0014	D00

شماره صفحه : ۳٪ از ۱۵٪

			TBE for MV Power Cable	<u>,</u>				
MR Item	PMR for Power & Control Cable (BK-GCS-PEDCO-120-EL-MR-0014) Description	- Purchaser Requirement	YAZD Cable	Status	SIMCO Cable	Status	ABHAR Cable	Status
1. E	nvironmental Data (Process Basis Design, BK-G	GNRAL-PEDCO-000-PR-DB-0001)						
1.1	Location	Binak Oilfield in Bushehr Province	Confirmed	Ok	Confirmed	Ok	Confirmed	Ok
1.2	Max. Outdoor Ambient Temperature	52°C	Confirmed	Ok	Confirmed	Ok	Confirmed	Ok
1.3	Min. Outdoor Ambient Temperature	5°C	Confirmed	Ok	Confirmed	Ok	Confirmed	Ok
1.4	Direct Sunlight Temperature	85°C	Confirmed	Ok	Confirmed	Ok	Confirmed	Ok
1.5	Maximum Relative Outdoor Humidity	100%	Confirmed	Ok	Confirmed	Ok	Confirmed	Ok
1.6	Altitude	12.5 m Above Sea Level	Confirmed	Ok	Confirmed	Ok	Confirmed	Ok
1.7	Installation Method	Direct Buried Cable	Confirmed	Ok	Confirmed	Ok	Confirmed	Ok
2. G	eneral							1
2.1	Cable Type	MV Power Cable	OK	Ok	Confirmed	Ok	Confirmed	Ok
2.2	Brief Description (Number of Core)	By Vendor	Un-priced invoice has been attached.	Ok	According. to MTO BK-GCS-PEDCO-120-EL-MT- 0003_D01	Ok	As per MTO	Ok
2.3	Manufacturer	By Vendor	Yazd wire & cable Co.	Ok	SIMCO	Ok	Abhar Cable	Ok
2.4	Country	By Vendor	Iran	Ok	IRAN	Ok	Iran	Ok
2.5	Standard	IEC 60502, IPS-M-EL-272 (2)	Ok	Ok	Confirmed	Ok	Confirmed except deviation list.	Ok
2.6	Supply Rated Voltage U0/U [KV]	1.8/3 - 6/10 KV	Ok	Ok	3.6/6 – 6/10 KV	Ok	Confirmed	Ok
2.7	Cable Rated Voltage U0/U(Um) [KV]	1.8/3 (3.6) - 6/10 (12) KV	Ok	Ok	3.6/6(7.2) - 6/10(12) KV	Ok	Confirmed	Ok
2.8	System Frequency	50 Hz	Ok	Ok	Confirmed	Ok	Confirmed	Ok
2.9	Quantity	According to Document "BK-GCS-PEDCO-120-EL-LI-0002"	Un-priced invoice has been attached	Ok	According. to MTO BK-GCS-PEDCO-120-EL-MT- 0003 D01	Ok	According to Document "BK-GCS-PEDCO-120-EL-MT- 0003-D01"	Ok
2.10	Length[m]	According to Document "BK-GCS-PEDCO-120-EL-LI-0002"	Un-priced invoice has been attached	Ok	According. to MTO BK-GCS-PEDCO-120-EL-MT- 0003_D01	Ok	According to Document "BK-GCS-PEDCO-120-EL-MT- 0003-D01"	Ok
2.11	Number of Drums	According to Document "BK-GCS-PEDCO-120-EL-LI-0003"	Will be submitted after PO.	Ok	Confirmed	Ok	Confirmed	Ok
3. C	onstruction							



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره صفحه: ۴ از ۱۵

سريال

0014

D00

	شماره پیمان:			TBE	FOR POWER & CONT	ROL CABLES		
· ۵۳ – • ۷۳ – ٩ ١٨۴		پروژه	بسته کاری	صادركننده	تسهيلات	رشته	نوع مدرک	
2, ,, ,,,,		BK	GCS	PEDCO	120	EL	ТВ	

TBE for MV Power Cable PMR for Power & Control Cable MR (BK-GCS-PEDCO-120-EL-MR-0014) **Purchaser Requirement** YAZD Cable SIMCO Cable Status **ABHAR Cable** Status Status Item Description Conductor Material Plain Annealed Stranded Copper OK Ok 3.1 Ok Confirmed Confirmed Ok According. to MTO According to Document BK-GCS-PEDCO-120-EL-MT-As per MTO Ok Ok As per MTO Ok 3.2 Conductor Cross Section [mm2] "BK-GCS-PEDCO-120-EL-LI-0002" 0003 D01 Solid Ok Ok N.A Ok NA The conductor structure of all MV Circular Stranded S<=25mm Ok NA Ok Ok cables is RM. 3.3 Conductor Construction Ok Ok N.A Shaped Stranded S>=35mm NA Ok Compressed Circular Stranded OK Ok Confirmed Ok N.A Ok 90°C (for XLPE Insulation) OK Ok Confirmed Ok Confirmed Ok Maximum Conductor Temperature 3.4 70°C (for PVC Insulation) Ok Ok N.A NA Ok 250°C (for XLPE Insulation) OK Ok Confirmed Ok Confirmed Ok 3.5 Maximum Conductor Temperature - Short Circuit 160°C (for PVC Insulation) Ok NA Ok N.A Ok Conductor Class Class 2 OK Ok Confirmed Ok Confirmed Ok 3.6 According. to MTO According to Document Number of Cores As per MTO Ok BK-GCS-PEDCO-120-EL-MT-Ok As per MTO Ok 3.7 "BK-GCS-PEDCO-120-EL-LI-0002" 0003 D01 Core Insulation Material **XLPE** OK Ok Ok 3.8 Ok Confirmed Confirmed Mentioned in SIMCO Technical 3.9 Core Insulation Thickness [mm] By Vendor As per vendor technical proposal Ok Ok As per IEC60502-2 Ok Specification 3.10 Core Insulation Colors/Marking Red, Yellow & Blue OK Ok Confirmed Ok Confirm after P.O Ok 3.11 Screen Material OK Ok Confirmed Ok Confirmed Ok Copper 3.12 Screen Cross Section 16 or 25 OK Ok 16 Ok 16 mm^2 Ok According to the data sheet of 3.13 Filler Type PVC OK Ok Confirmed (If Applicable) Ok Ok Abhar cable. According to the data sheet of Extruded PVC OK Ok Ok Ok 3.14 Bedding (Inner Sheath) Material Confirmed Abhar cable. According to the data sheet of Mentioned in SIMCO Technical 3.15 **Bedding Thickness** By Vendor As per vendor technical proposal Ok Ok Ok Specification Abhar cable. Mentioned in SIMCO Technical Lead Sheath Thickness By Vendor (Considered for Process Area) Ok Ok As per IEC60502-2 Ok 3.16 As per vendor technical proposal Specification



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نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:			TBE	FOR POWER & CONT	ROL CABLES				
£	پروژه	بسته کاری	صادر كننده	تسهيلات	رشته	نوع مدر ک	سر يال	نسخه	
	ВК	GCS	PEDCO	120	EL	ТВ	0014	D00	

شماره صفحه : ۵ از ۱۵

TBE for MV Power Cab

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MR	PMR for Power & Control Cable (BK-GCS-PEDCO-120-EL-MR-0014)	Purchaser Requirement	YAZD Cable	Status	SIMCO Cable	Status	ABHAR Cable	Status
Item	Description							
3.17	Under armor diameter of cable	VTA	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	According to the data sheet of Abhar cable.	Ok
3.18	Armor Type & Material	Galvanized Steel Wire for Multicore, Aluminum Wire for Single Cores	OK	Ok	Confirmed	Ok	Confirmed	Ok
3.19	Armor Wire Diameter [mm]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	As per IEC60502-2	Ok
3.20	Armor Coverage	Min.90%	OK	Ok	Confirmed	Ok	Confirmed	Ok
3.21	Jacket (Outer Sheath) Material	Extruded PVC	OK	Ok	Confirmed	Ok	Confirmed	Ok
3.22	Jacket Thickness[mm]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	As per IEC60502-2	Ok
3.23	Jacket Color	Red	OK	Ok	Confirmed	Ok	Confirm after P.O	Ok
3.24	Diameter Under Armor [mm]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	According to the data sheet of Abhar cable.	Ok
3.25	Overall Diameter [mm]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	According to the data sheet of Abhar cable.	Ok
3.26	Minimum Bending Radius	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	According to the data sheet of Abhar cable.	Ok
3.27	Diameter Over Lead Sheath [mm]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	The diameter below the lead sheath is according to the Abhar cable data sheet.	Ok
3.28	Cable Marking	By Vendor	OK	Ok	Mentioned in SIMCO Technical Specification	Ok	According to the data sheet of Abhar cable.	Ok
3.29	Repeating Length [m]	1m	OK	Ok	Confirmed	Ok	Confirmed	Ok
		Type of cable	OK	Ok	Confirmed	Ok	Confirm after P.O	Ok
		Number of conductor and cross Section	OK	Ok	Confirmed	Ok	Confirm after P.O	Ok
3.30	Marking Items	Manufacturer's name	OK	Ok	Confirmed	Ok	Confirm after P.O	Ok
3.30	warking tems	Year of manufacture	OK	Ok	Confirmed	Ok	Confirm after P.O	Ok
		Type of insulation	OK	Ok	Confirmed	Ok	Confirm after P.O	Ok
		Standard No	OK	Ok	Confirmed	Ok	Confirm after P.O	Ok
4. E	lectrical Characteristics							
4.1	DC Resistance of Conductor at 20°C [Ω/Km]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	According to the data sheet of Abhar cable	Ok
4.2	AC Resistance of Conductor at 20°C [Ω/Km]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	As pre IEC60228	Ok



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:		TBE FOR POWER & CONTROL CABLES								
ماره پیمان. ۱۸۱۶ – ۷۲۰ – ۵۳۰	پروژه	بسته کاری	صادركننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه		
2, ,, ,,,,	BK	GCS	PEDCO	120	FI	TB	0014	D00		

شماره صفحه : ۶٪ از ۱۵٪

			TBE for MV Power Cable	.				
MR	PMR for Power & Control Cable (BK-GCS-PEDCO-120-EL-MR-0014)	Purchaser Requirement	YAZD Cable	Status	SIMCO Cable	Status	ABHAR Cable	Status
Item	Description	4						
4.3	AC Resistance of Conductor at 70°C [Ω/Km]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	As pre IEC60228	Ok
4.4	DC Resistance of Conductor at 30°C [Ω/Km]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	As pre IEC60228	Ok
4.5	AC Resistance of Conductor at 30°C [Ω/Km]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	As pre IEC60228	Ok
4.6	Phase Reactance [Ω/Km]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	As pre IEC60228	Ok
4.7	Ampacity at 20°C /2.5 Km /W Soil[A]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	According to the catalog of Abhar cable	Ok
4.8	Ampacity at 30°C Free Air [A]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	According to the catalog of Abhar cable	Ok
5. M	lechanical Characteristics							
5.1	Maximum Insulation Temperature:	By Vendor	90	Ok	90	Ok	90 °C	Ok
5.2	At Continuous Rating [°C]	By Vendor	90	Ok	90	Ok	90 °C	Ok
5.3	At Short Circuit [°C]	By Vendor	250	Ok	250	Ok	250 °C	Ok
5.4	Cable Weight [Kg/Km]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO technical specification	Ok	According to the data sheet of Abhar cable	Ok
6. D	rum Characteristics							
6.1	Dimension[mm]	By Vendor	Will be submitted after PO.	Ok	According to Final Cable Cutting List	Ok	Confirmed	Ok
6.2	Drum Type No.	By Vendor	Will be submitted after PO.	Ok	According to Final Cable Cutting List	Ok	Confirmed	Ok
6.3	Cable Length Per Drum[m]	By Vendor	Will be submitted after PO.	Ok	According to Final Cable Cutting List	Ok	Confirmed	Ok
6.4	Drum Weight [Kg]	By Vendor	Will be submitted after PO.	Ok	According to Final Cable Cutting List	Ok	Confirmed	Ok
6.5	Material	By Vendor	Will be submitted after PO.	Ok	According to Final Cable Cutting List	Ok	Confirmed	Ok
7. T	est Items							
7.1	Routine Tests: (as minimum) - Conductor Resistance Measurement - High Voltage Power Frequency Test	Yes	ITP has been attached	Ok	Confirmed According. to Standard	Ok	Confirm after P.O & P.I.M	Ok
	Insulation Resistance MeasurementPartial Discharge Test	By Vendor						

Status Legends

A=Acceptable N/A=Not Applicable C=Clarification is required

N=Not Acceptable INA=Information Not Available CA= Conditionally Acceptable M = Requirement is Mandatory



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نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:		TBE FOR POWER & CONTROL CABLES									
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''	ВК	GCS	PEDCO	120	EL	ТВ	0014	D00			

شماره صفحه: ۷ از ۱۵

	TBE for LV Power Cable										
MR Item	PMR for Power & Control Cable (BK-GCS-PEDCO-120-EL-MR-0014) Description	- Purchaser Requirement	YAZD Cable	Status	SIMCO Cable	Status	ABHAR Cable	Status			
	vironmental Data (Process Basis Design, BK-C	 		<u> </u>							
1.1	Location	Binak Oilfield in Bushehr Province	Confirmed	Ok	Confirmed	Ok	Confirmed	Ok			
1.2	Max. Outdoor Ambient Temperature	52°C	Confirmed	Ok	Confirmed	Ok	Confirmed	Ok			
1.3	Min. Outdoor Ambient Temperature	5°C	Confirmed	Ok	Confirmed	Ok	Confirmed	Ok			
1.4	Direct Sunlight Temperature	85°C	Confirmed	Ok	Confirmed	Ok	Confirmed	Ok			
1.5	Maximum Relative Outdoor Humidity	100%	Confirmed	Ok	Confirmed	Ok	Confirmed	Ok			
1.6	Altitude	12.5 m Above Sea Level	Confirmed	Ok	Confirmed	Ok	Confirmed	Ok			
1.7	Installation Method	Direct Buried Cable	Confirmed	Ok	Confirmed	Ok	Confirmed	Ok			
2. G	eneral										
2.1	Cable Type	LV Power Cable	OK	Ok	Confirmed	Ok	Confirmed	Ok			
2.2	Brief Description (Number of Core)	By Vendor	Un-priced invoice has been attached	Ok	Acc. to MTO BK-GCS-PEDCO-120-EL-MT- 0003 D01	Ok	As per MTO	Ok			
2.3	Manufacturer	By Vendor	Yazd wire & cable Co.	Ok	SIMCO	Ok	Abhar cable	Ok			
2.4	Country	By Vendor	Iran	Ok	IRAN	Ok	Iran	Ok			
2.5	Standard	IEC 60502, IPS-M-EL-271(2)	OK	Ok	Confirmed	Ok	Confirmed except deviation list.	Ok			
2.6	Supply Rated Voltage U0/U [KV]	0.6/1 KV	OK	Ok	Confirmed	Ok	Confirmed	Ok			
2.7	Cable Rated Voltage U0/U(Um) [KV]	0.6/1 (1.2) KV	OK	Ok	Confirmed	Ok	Confirmed	Ok			
2.8	System Frequency	50 Hz	OK	Ok	Confirmed	Ok	Confirmed	Ok			
2.9	Quantity	According to Document "BK-GCS-PEDCO-120-EL-LI-0002"	Un-priced invoice has been attached	Ok	According. to MTO BK-GCS-PEDCO-120-EL-MT- 0003 D01	Ok	According to Document "BK-GCS-PEDCO-120-EL-MT- 0003-D01"	Ok			
2.10	Length[m]	According to Document "BK-GCS-PEDCO-120-EL-LI-0002"	Un-priced invoice has been attached	Ok	According. to MTO BK-GCS-PEDCO-120-EL-MT- 0003_D01	Ok	According to Document "BK-GCS-PEDCO-120-EL-MT- 0003-D01"	Ok			
2.11	Number of Drums	According to Document "BK-GCS-PEDCO-120-EL-LI-0003"	Will be submitted after PO.	Ok	Confirmed	Ok	Confirmed	Ok			
3. C	onstruction										



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره صفحه: ۸ از ۱۵

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شماره پیمان:			TBE	FOR POWER & CONT	ROL CABLES		
·54 - ·74 — 9114	پروژه	بسته کاری	صادركننده	تسهيلات	رشته	نوع مدر ک	سر يال
2, ,, ,,,,,	BK	GCS	PEDCO	120	EL	ТВ	0014

			TBE for LV Power Cable					
MR Item	PMR for Power & Control Cable (BK-GCS-PEDCO-120-EL-MR-0014) Description	- Purchaser Requirement	YAZD Cable	Status	SIMCO Cable	Status	ABHAR Cable	Status
3.1	Conductor Material	Plain Annealed Stranded Copper	OK	Ok	Confirmed	Ok	Confirmed	Ok
3.2	Conductor Cross Section [mm2]	According to Document "BK-GCS-PEDCO-120-EL-LI-0002"	As per MTO	Ok	Acc. to MTO BK-GCS-PEDCO-120-EL-MT- 0003 D01	Ok	As per MTO	Ok
		Solid	Stranded (class 2)	Ok	NA	Ok	N.A	Ok
		Circular Stranded S<=25mm	Circular Stranded S<=35 mm ²	Ok	Circular Stranded S<=35mm	Ok	Circular Stranded S<=35mm	Ok
3.3	Conductor Construction	Shaped Stranded S>=35mm	Shaped Stranded S>=50 mm ² (3 & 4 core cable)	Ok	Shaped Stranded S>=50mm (Multi Core Cable)	Ok	Shaped Stranded S>=50mm	Ok
		Compressed Circular Stranded	S>=16 up to including mm ²	Ok	NA	Ok	N.A	Ok
2.4	W. C. L. T.	90°C (for XLPE Insulation)	OK	Ok	Confirmed	Ok	Confirmed	Ok
3.4	Maximum Conductor Temperature	70°C (for PVC Insulation)	OK	Ok	NA	Ok	Confirmed	Ok
		250°C (for XLPE Insulation)	OK	Ok	Confirmed	Ok	Confirmed	Ok
3.5	Maximum Conductor Temperature - Short Circuit	160°C (for PVC Insulation)	OK	Ok	NA	Ok	Confirmed	Ok
3.6	Conductor Class	Class 2	OK	Ok	Confirmed	Ok	Confirmed	Ok
3.7	Number of Cores	According to Document "BK-GCS-PEDCO-120-EL-LI-0002"	As per MTO	Ok	Acc. to MTO BK-GCS-PEDCO-120-EL-MT- 0003_D01	Ok	As per MTO	Ok
3.8	Core Insulation Material	XLPE (or PVC if Specified in Cable List)	As per MTO	Ok	XLPE	Ok	Confirmed	Ok
3.9	Core Insulation Thickness [mm]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO technical specification	Ok	As per IEC60502-1	Ok
3.10	Core Insulation Colors/Marking	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO technical specification	Ok	Confirm after P.O	Ok
3.11	Phase Conductors	Red, Yellow and Blue	OK	Ok	Confirmed	Ok	Confirm after P.O	Ok
3.12	For AC Neutral or Other Connections	Black	OK	Ok	Confirmed	Ok	Confirm after P.O	Ok
3.13	For Two Core Cable (DC)	Positive: Red , Negative: Black	OK	Ok	NA	Ok	Confirm after P.O	Ok
3.14	Lead Sheath Thickness	By Vendor (Considered for Process Area)	As per vendor technical proposal	Ok	Mentioned in SIMCO technical specification	Ok	As per IEC60502-1	Ok
3.15	Diameter Over Lead Sheath [mm]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO technical specification	Ok	The diameter below the lead sheath is according to the Abhar cable data sheet.	Ok
3.16	Armor Type & Material	Galvanized Steel Wire for Multicore, Aluminum Wire for Single Cores	OK	Ok	Confirmed	Ok	Confirmed	Ok



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره صفحه: ۹ از ۱۵

سريال

0014

D00

	شماره پیمان:		TBE FOR POWER & CONTROL CABLES								
· ۵۳ – · ۷۳ – ۹ ۱۸۴		پروژه	بسته کاری	صادركننده	تسهيلات	رشته	نوع مدرک				
2, ,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		BK	GCS	PEDCO	120	FI	TB				

			TBE for LV Power Cable	:				
MR Item	PMR for Power & Control Cable (BK-GCS-PEDCO-120-EL-MR-0014) Description	- Purchaser Requirement	YAZD Cable	Status	SIMCO Cable	Status	ABHAR Cable	Status
	•	Dr. Vandan	A a man yan dan tashuisal mumasal	Ok	Mentioned in SIMCO technical	Ok	A a man IEC(40502 1	Ok
3.17	Armor Wire Diameter [mm]	By Vendor	As per vendor technical proposal	OK	specification	OK	As per IEC60502-1	OK
3.18	Bedding Type	Extruded PVC	OK	Ok	Confirmed	Ok	According to the data sheet of Abhar cable	Ok
3.19	Filler Type	PVC	OK	Ok	Confirmed (IF Applicable)	Ok	According to the data sheet of Abhar cable	Ok
3.20	Jacket (Outer Sheath) Material	Extruded PVC	OK	Ok	Confirmed	Ok	Confirmed	Ok
3.21	Jacket Thickness[mm]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO technical specification	Ok	According to the data sheet of Abhar cable	Ok
3.22	Jacket Color	Black	OK	Ok	Confirmed	Ok	Confirm after P.O	Ok
3.23	Diameter Under Armor [mm]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO technical specification	Ok	According to the data sheet of Abhar cable	Ok
3.24	Overall Diameter [mm]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO technical specification	Ok	According to the data sheet of Abhar cable	Ok
3.25	Minimum Bending Radius	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO technical specification	Ok	According to the data sheet of Abhar cable	Ok
3.26	Cable Marking	By Vendor	OK, As per vendor technical proposal	Ok	Mentioned in SIMCO technical specification	Ok	According to the data sheet of Abhar cable	Ok
3.27	Repeating Length [m]	lm	OK	Ok	Confirmed	Ok	Confirmed	Ok
		Type of cable	OK	Ok	Confirmed	Ok	Confirm after P.O	Ok
		Number of conductor and cross Section	OK	Ok	Confirmed	Ok	Confirm after P.O	Ok
2.20	Madding Items	Manufacturer's name	OK	Ok	Confirmed	Ok	Confirm after P.O	Ok
3.28	Marking Items	Year of manufacture	OK	Ok	Confirmed	Ok	Confirm after P.O	Ok
		Type of insulation	OK	Ok	Confirmed	Ok	Confirm after P.O	Ok
		Standard No	OK	Ok	Confirmed	Ok	Confirm after P.O	Ok
4. El	ectrical Characteristics							
4.1	DC Resistance of Conductor at 20°C [Ω/Km]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	According to the data sheet of Abhar cable	Ok
4.2	AC Resistance of Conductor at 20°C [Ω/Km]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	As per IEC60228	Ok
4.3	AC Resistance of Conductor at 70°C [Ω/Km]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	As per IEC60228	Ok
4.4	DC Resistance of Conductor at 30°C [Ω/Km]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	As per IEC60228	Ok



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:	TBE FOR POWER & CONTROL CABLES							
شماره پیمان: ۱۸۴ – ۷۷۳ – ۵۳۰	پروژه	بسته کاری	صادركننده	تسهيلات	رشته	نوع مدر ک	سريال	نسخه
2, ,, ,,,,	BK	GCS	PEDCO	120	EL	ТВ	0014	D00

شماره صفحه : ۱۰٪ از ۱۵٪

			TBE for LV Power Cable							
MR	PMR for Power & Control Cable (BK-GCS-PEDCO-120-EL-MR-0014)	Purchaser Requirement	YAZD Cable	Status	SIMCO Cable	Status	ABHAR Cable	Status		
Item	Description									
4.5	AC Resistance of Conductor at 30°C [Ω/Km]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	As per IEC60228	Ok		
4.6	Phase Reactance [Ω/Km]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	As per IEC60228	Ok		
4.7	Ampacity at 20°C /2.5 Km /W Soil[A]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	According to the catalog of Abhar cable	Ok		
4.8	Ampacity at 30°C Free Air [A]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	According to the catalog of Abhar cable	Ok		
5. N	5. Mechanical Characteristics									
5.1	Maximum Insulation Temperature:	By Vendor	XLPE: 90	Ok	90	Ok	90 °C For XLPE insulated, 70 °C For PVC insulated	Ok		
5.2	At Continuous Rating [°C]	By Vendor	XLPE: 90	Ok	90	Ok	90 °C For XLPE insulated, 70 °C For PVC insulated	Ok		
5.3	At Short Circuit [°C]	By Vendor	XLPE: 250	Ok	250	Ok	250 °C For XLPE insulated, 160 °C For PVC insulated	Ok		
5.4	Cable Weight [Kg/Km]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	According to the data sheet of Abhar cable	Ok		
6. D	rum Characteristics									
6.1	Dimension[mm]	By Vendor	Will be submitted after PO.	Ok	According to Final Cable Cutting List	Ok	Confirmed	Ok		
6.2	Drum Type No.	By Vendor	Will be submitted after PO.	Ok	According to Final Cable Cutting List	Ok	Confirmed	Ok		
6.3	Cable Length Per Drum[m]	By Vendor	Will be submitted after PO.	Ok	According to Final Cable Cutting List	Ok	Confirmed	Ok		
6.4	Drum Weight [Kg]	By Vendor	Will be submitted after PO.	Ok	According to Final Cable Cutting List	Ok	Confirmed	Ok		
6.5	Material	By Vendor	Wooden/Metal	Ok	According to Final Cable Cutting List	Ok	Confirmed	Ok		
7. T	est Items									
7.2	Routine Tests: (as minimum) - Conductor Resistance Measurement - High Voltage Power Frequency Test - Insulation Resistance Measurement	Yes	ITP has been attached.	Ok	Confirmed According. to Standard (partial discharge (PD) Test is not applicable for LV Cable)	Ok	Confirm after P.O & P.I.M	Ok		
	- Partial Discharge Test	By Vendor			applicate 131 E (Cacle)					

Status Legends

A=Acceptable N/A=Not Applicable C=Clarification is required

N=Not Acceptable INA=Information Not Available CA= Conditionally Acceptable M = Requirement is Mandatory



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره صفحه: ۱۱ از ۱۵

شماره پیمان:	نسخه سريال نوع مدر ک رشته تسهيلات صادر کننده بسته کاری پروژه								
· ۵۳ - · ۷۳ - 9118	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سر يال	نسخه	
	BK	GCS	PEDCO	120	EL	ТВ	0014	D00	

	TBE for LV Control Cable									
MR	PMR for Power & Control Cable (BK-GCS-PEDCO-120-EL-MR-0014)	Purchaser Requirement	YAZD Cable	Status	SIMCO Cable	Status	ABHAR Cable	Status		
Item	Description	CND 11 PED CO 000 PD PD 0004)								
I. Ei	nvironmental Data (Process Basis Design, BK-C			<u> </u>						
1.1	Location	Binak Oilfield in Bushehr Province	Confirmed	Ok	Confirmed	Ok	Confirmed	Ok		
1.2	Max. Outdoor Ambient Temperature	52°C	Confirmed	Ok	Confirmed	Ok	Confirmed	Ok		
1.3	Min. Outdoor Ambient Temperature	5°C	Confirmed	Ok	Confirmed	Ok	Confirmed	Ok		
1.4	Direct Sunlight Temperature	85°C	Confirmed	Ok	Confirmed	Ok	Confirmed	Ok		
1.5	Maximum Relative Outdoor Humidity	100%	Confirmed	Ok	Confirmed	Ok	Confirmed	Ok		
1.6	Altitude	12.5 m Above Sea Level	Confirmed	Ok	Confirmed	Ok	Confirmed	Ok		
1.7	Installation Method	Direct Buried Cable	Confirmed	Ok	Confirmed	Ok	Confirmed	Ok		
2. G	eneral									
2.1	Cable Type	LV Power Cable	LV control cable	Ok	LV Control Cable	Ok	Confirmed	Ok		
2.2	Brief Description (Number of Core)	By Vendor	Un-priced invoice has been attached	Ok	According to MTO BK-GCS-PEDCO-120-EL-MT- 0003_D01	Ok	As per MTO	Ok		
2.3	Manufacturer	By Vendor	Yazd wire & cable Co.	Ok	SIMCO	Ok	Abhar cable	Ok		
2.4	Country	By Vendor	Iran	Ok	Iran	Ok	Iran	Ok		
2.5	Standard	IEC 60502, IPS-M-EL-271(2)	OK	Ok	Confirmed	Ok	Confirmed except deviation list.	Ok		
2.6	Supply Rated Voltage U0/U [KV]	0.6/1 KV	OK	Ok	Confirmed	Ok	Confirmed	Ok		
2.7	Cable Rated Voltage U0/U(Um) [KV]	0.6/1 (1.2) KV	OK	Ok	Confirmed	Ok	Confirmed	Ok		
2.8	System Frequency	50 Hz	OK	Ok	Confirmed	Ok	Confirmed	Ok		
2.9	Quantity	According to Document "BK-GCS-PEDCO-120-EL-LI-0002"	Un-priced invoice has been attached	Ok	Acc. to MTO BK-GCS-PEDCO-120-EL-MT- 0003_D01	Ok	According to Document "BK-GCS-PEDCO-120-EL-MT- 0003-D01"	Ok		
2.10	Length[m]	According to Document "BK-GCS-PEDCO-120-EL-LI-0002"	Un-priced invoice has been attached	Ok	Acc. to MTO BK-GCS-PEDCO-120-EL-MT- 0003_D01	Ok	According to Document "BK-GCS-PEDCO-120-EL-MT- 0003-D01"	Ok		
2.11	Number of Drums	According to Document "BK-GCS-PEDCO-120-EL-LI-0003"	Will be submitted after PO.	Ok	Confirmed	Ok	Confirmed	Ok		
3. Co	onstruction									



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:			TBE	FOR POWER & CONT	ROL CABLES			
·54 - ·74 — 1184	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدر ک	سر يال	نسخه
	BK	GCS	PEDCO	120	EL	ТВ	0014	D00

شماره صفحه : ۱۲٪ از ۱۵٪

TRE for LV (Control (Cable
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	PMR for Power & Control Cable								
MR	(BK-GCS-PEDCO-120-EL-MR-0014)	- Purchaser Requirement	YAZD Cable	Status	SIMCO Cable	Status	ABHAR Cable	Status	
Item	Description	Turchaser Requirement	TAZD Cable	Status	Silvico Cabic	Status	ADITAR Cable	Status	
3.1	Conductor Material	Plain Annealed Stranded Copper	OK	Ok	Confirmed	Ok	Confirmed	Ok	
3.2	Conductor Cross Section [mm2]	According to Document "BK-GCS-PEDCO-120-EL-LI-0002"	Asper MTO	Ok	Acc. to MTO BK-GCS-PEDCO-120-EL-MT- 0003_D01	Ok	As per MTO	Ok	
		Solid	Stranded (class 2)	Ok	NA	Ok	N.A	Ok	
2.2		Circular Stranded S<=25mm	-	Ok	Circular Stranded	Ok	Circular Stranded S<=35mm	Ok	
3.3	Conductor Construction	Shaped Stranded S>=35mm	-	Ok	NA	Ok	Shaped Stranded S>=50mm	Ok	
		Compressed Circular Stranded	-	Ok	NA	Ok	N.A	Ok	
2.4	M : C 1 · T	90°C (for XLPE Insulation)	OK	Ok	NA	Ok	Confirmed	Ok	
3.4	Maximum Conductor Temperature	70°C (for PVC Insulation)	OK	Ok	Confirmed	Ok	Confirmed	Ok	
2.5	Maria Carla Maria di Adiria	250°C (for XLPE Insulation)	OK	Ok	NA	Ok	Confirmed	Ok	
3.5	Maximum Conductor Temperature - Short Circuit	160°C (for PVC Insulation)	OK	Ok	Confirmed	Ok	Confirmed	Ok	
3.6	Conductor Class	Class 2	OK	Ok	Confirmed	Ok	Confirmed	Ok	
3.7	Number of Cores	According to Document "BK-GCS-PEDCO-120-EL-LI-0002"	As per MTO	Ok	Confirmed	Ok	As per MTO	Ok	
3.8	Core Insulation Material	XLPE (or PVC if Specified in Cable List)	PVC	Ok	PVC	Ok	Confirmed	Ok	
3.9	Core Insulation Thickness [mm]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	As per IEC60502-1	Ok	
3.10	Core Insulation Colors/Marking	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	Confirm after P.O	Ok	
3.11	Phase Conductors	Red, Yellow and Blue	Black with white No.	Ok	Black and Sequentially White Numbered	Ok	Confirm after P.O	Ok	
3.12	For AC Neutral or Other Connections	Black	-	Ok	NA	Ok	Confirm after P.O	Ok	
3.13	For Two Core Cable (DC)	Positive: Red , Negative: Black	-	Ok	NA	Ok	Confirm after P.O	Ok	
3.14	Lead Sheath Thickness	By Vendor (Considered for Process Area)	As per vendor technical proposal	Ok	Mentioned In SIMCO Technical Specification	Ok	As per IEC60502-1	Ok	
3.15	Diameter Over Lead Sheath [mm]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical specification	Ok	The diameter below the lead sheath is according to the Abhar cable data sheet.	Ok	
3.16	Armor Type & Material	Galvanized Steel Wire for Multicore, Aluminum Wire for Single Cores	OK	Ok	Confirmed	Ok	Confirmed	Ok	



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR POWER & CONTROL CABLES



شماره صفحه : ۱۳ از ۱۵

	شماره پیمان:			
۹۱۸۴ – ۷۳۰ – ۵۳۰		پروژه	بسته کاری	
U		BK	GCS	

پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه
ВК	GCS	PEDCO	120	EL	ТВ	0014	D00

	TBE for LV Control Cable									
MR	PMR for Power & Control Cable (BK-GCS-PEDCO-120-EL-MR-0014)	- Purchaser Requirement	YAZD Cable	Status	SIMCO Cable	Status	ABHAR Cable	Status		
Item	Description	•								
3.17	Armor Wire Diameter [mm]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	As per IEC60502-1	Ok		
3.18	Bedding Type	Extruded PVC	OK	Ok	Confirmed	Ok	According to the data sheet of Abhar cable	Ok		
3.19	Filler Type	PVC	OK	Ok	Confirmed (If Applicable)	Ok	According to the data sheet of Abhar cable	Ok		
3.20	Jacket (Outer Sheath) Material	Extruded PVC	OK	Ok	Confirmed	Ok	Confirmed	Ok		
3.21	Jacket Thickness[mm]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	As per IEC60502-1	Ok		
3.22	Jacket Color	Black	OK	Ok	Confirmed	Ok	Confirm after P.O	Ok		
3.23	Diameter Under Armor [mm]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	According to the data sheet of Abhar cable	Ok		
3.24	Overall Diameter [mm]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	According to the data sheet of Abhar cable	Ok		
3.25	Minimum Bending Radius	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	According to the data sheet of Abhar cable	Ok		
3.26	Cable Marking	By Vendor	OK, As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	According to the data sheet of Abhar cable	Ok		
3.27	Repeating Length [m]	1m	OK	Ok	Confirmed	Ok	According to the data sheet of Abhar cable	Ok		
		Type of cable	OK	Ok	Confirmed	Ok	Confirm after P.O	Ok		
		Number of Conductor and Cross Section	OK	Ok	Confirmed	Ok	Confirm after P.O	Ok		
3.28	Marking Items	Manufacturer's name	OK	Ok	Confirmed	Ok	Confirm after P.O	Ok		
3.20	Marking items	Year of Manufacture	OK	Ok	Confirmed	Ok	Confirm after P.O	Ok		
		Type of Insulation	OK	Ok	Confirmed	Ok	Confirm after P.O	Ok		
		Standard No	OK	Ok	Confirmed	Ok	Confirm after P.O	Ok		
4. El	ectrical Characteristics									
4.1	DC Resistance of Conductor at 20°C [Ω/Km]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	According to the data sheet of Abhar cable	Ok		
4.2	AC Resistance of Conductor at 20°C [Ω/Km]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	As per IEC60228	Ok		
4.3	AC Resistance of Conductor at 70°C [Ω/Km]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	As per IEC60228	Ok		
4.4	DC Resistance of Conductor at 30°C [Ω/Km]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	As per IEC60228	Ok		



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نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:			TBE	FOR POWER & CONT	ROL CABLES			
=	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدر ک	سر يال	نسخه
	ВК	GCS	PEDCO	120	EL	ТВ	0014	D00

شماره صفحه : ۱۴ از ۱۵

	TBE for LV Control Cable											
MR	PMR for Power & Control Cable (BK-GCS-PEDCO-120-EL-MR-0014)	Purchaser Requirement	Purchaser Requirement YAZD Cable Status SIMCO		SIMCO Cable	Status	ABHAR Cable	Status				
Item	Description	•										
4.5	AC Resistance of Conductor at 30°C [Ω/Km]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	As per IEC60228	Ok				
4.6	Phase Reactance [Ω/Km]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	As per IEC60228	Ok				
4.7	Ampacity at 20°C /2.5 Km /W Soil[A]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	According to the catalog of Abhar cable	Ok				
4.8	Ampacity at 30°C Free Air [A]	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	According to the catalog of Abhar cable	Ok				
5. M	echanical Characteristics											
5.1	Maximum Insulation Temperature:	By Vendor		Ok	70		90 °C For XLPE insulated, 70 °C For PVC insulated	Ok				
5.2	At Continuous Rating [°C]	By Vendor	PVC: 70	Ok	70		90 °C For XLPE insulated, 70 °C For PVC insulated	Ok				
5.3	At Short Circuit [°C]	By Vendor	PVC:160	Ok	160		250 °C For XLPE insulated, 160 °C For PVC insulated	Ok				
5.4	Cable Weight [Kg/Km]	By Vendor	According to YAZD Technical	Ok	Mentioned in SIMCO Technical Specification		According to the data sheet of Abhar cable	Ok				
6. Di	rum Characteristics											
6.1	Dimension[mm]	By Vendor	Will be submitted after PO.	Ok	According to Final Cable Cutting List		Confirmed	Ok				
6.2	Drum Type No.	By Vendor	Will be submitted after PO.	Ok	According to Final Cable Cutting List		Confirmed	Ok				
6.3	Cable Length Per Drum[m]	By Vendor	Will be submitted after PO.	Ok	According to Final Cable Cutting List		Confirmed	Ok				
6.4	Drum Weight [Kg]	By Vendor	Will be submitted after PO.	Ok	According to Final Cable Cutting List		Confirmed	Ok				
6.5	Material	By Vendor	Wooden/Metal	Ok	According to Final Cable Cutting List		Confirmed	Ok				
7. Te	est Items											
7.1	Routine Tests: (as minimum) - Conductor Resistance Measurement - High Voltage Power Frequency Test - Insulation Resistance Measurement	Yes	ITP has been attached.	Ok	Confirmed acc. to Standard (Partial Discharge (PD) Test is not applicable for .Control Cable)		Confirm after P.O & P.I.M	Ok				
	- Partial Discharge Test	By Vendor			applicable for .control cable)							

Status Legends

A=Acceptable N/A=Not Applicable C=Clarification is required

N=Not Acceptable INA=Information Not Available CA= Conditionally Acceptable M = Requirement is Mandatory



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نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض



RGAN FERGY

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

TBE FOR POWER & CONTROL CABLES شماره پیمان: بسته کاری صادر کننده رشته نوع مدرك نسخه پروژه تسهيلات سريال BK GCS PEDCO 120 EL TB 0014 D00

شماره صفحه: ۱۵ از ۱۵

Conclusion Table:

Item	Equipment YAZD Cable		SIMCO Cable	ABHAR Cable
1	MV Power Cable	Accepted	Accepted	Accepted
2	LV Power Cable	Accepted	Accepted	Accepted
3	Control Power Cable	Accepted	Accepted	Accepted

Conclusion Note:

All vendors have no deviations.