



 NISOC	<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>																									
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	<table><tr><th colspan="8">TBE FOR POWER &amp; CONTROL CABLES</th></tr><tr><th>نسخه</th><th>سریال</th><th>نوع مدرک</th><th>رشته</th><th>تسهیلات</th><th>صادرکننده</th><th>بسته کاری</th><th>پروژه</th></tr><tr><td>D00</td><td>0014</td><td>TB</td><td>EL</td><td>120</td><td>PEDCO</td><td>GCS</td><td>BK</td></tr></table>	TBE FOR POWER & CONTROL CABLES								نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه	D00	0014	TB	EL	120	PEDCO	GCS	BK	شماره صفحه: ۲ از ۱۵
TBE FOR POWER & CONTROL CABLES																										
نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه																			
D00	0014	TB	EL	120	PEDCO	GCS	BK																			

### REVISION RECORD SHEET

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	<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>							
شماره پیمان:  ۰۵۳ - ۰۷۳ - ۹۱۸۴	TBE FOR POWER & CONTROL CABLES							شماره صفحه : ۴ از ۱۵
	نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	
	D00	0014	TB	EL	120	PEDCO	GCS	
	BK							

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							
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	According. to MTO BK-GCS-PEDCO-120-EL-MT-0003_D01	Ok	As per MTO	Ok
3.3	Conductor Construction	Solid	-	Ok	NA	Ok	N.A	Ok
		Circular Stranded S<=25mm	-	Ok	NA	Ok	The conductor structure of all MV cables is RM.	Ok
		Shaped Stranded S>=35mm	-	Ok	NA	Ok	N.A	Ok
		Compressed Circular Stranded	OK	Ok	Confirmed	Ok	N.A	Ok
3.4	Maximum Conductor Temperature	90°C (for XLPE Insulation)	OK	Ok	Confirmed	Ok	Confirmed	Ok
		70°C (for PVC Insulation)	-	Ok	NA	Ok	N.A	Ok
3.5	Maximum Conductor Temperature - Short Circuit	250°C (for XLPE Insulation)	OK	Ok	Confirmed	Ok	Confirmed	Ok
		160°C (for PVC Insulation)	-	Ok	NA	Ok	N.A	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	According. to MTO BK-GCS-PEDCO-120-EL-MT-0003_D01	Ok	As per MTO	Ok
3.8	Core Insulation Material	XLPE	OK	Ok	Confirmed	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 IEC60502-2	Ok
3.10	Core Insulation Colors/Marking	Red, Yellow & Blue	OK	Ok	Confirmed	Ok	Confirm after P.O	Ok
3.11	Screen Material	Copper	OK	Ok	Confirmed	Ok	Confirmed	Ok
3.12	Screen Cross Section	16 or 25	OK	Ok	16	Ok	16 mm²	Ok
3.13	Filler Type	PVC	OK	Ok	Confirmed (If Applicable)	Ok	According to the data sheet of Abhar cable.	Ok
3.14	Bedding (Inner Sheath) Material	Extruded PVC	OK	Ok	Confirmed	Ok	According to the data sheet of Abhar cable.	Ok
3.15	Bedding Thickness	By Vendor	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	According to the data sheet of Abhar cable.	Ok
3.16	Lead Sheath Thickness	By Vendor (Considered for Process Area)	As per vendor technical proposal	Ok	Mentioned in SIMCO Technical Specification	Ok	As per IEC60502-2	Ok

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شماره پیمان:  ۰۵۳ - ۰۷۳ - ۹۱۸۴	TBE FOR POWER & CONTROL CABLES							شماره صفحه : ۵ از ۱۵
	نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	
	D00	0014	TB	EL	120	PEDCO	GCS	
	BK							

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							
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
3.30	Marking Items	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
		Manufacturer’s name	OK	Ok	Confirmed	Ok	Confirm after P.O	Ok
		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. Electrical 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

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شماره پیمان:  ۰۵۳ - ۰۷۳ - ۹۱۸۴	TBE FOR POWER & CONTROL CABLES							شماره صفحه : ۶ از ۱۵
	نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	
	D00	0014	TB	EL	120	PEDCO	GCS	
	BK							

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							
4.3	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. Mechanical 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. Drum 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. Test Items								
7.1	Routine Tests: (as minimum) - Conductor Resistance Measurement - High Voltage Power Frequency Test - Insulation Resistance Measurement - Partial Discharge Test	Yes  By Vendor	ITP has been attached	Ok	Confirmed According. to Standard	Ok	Confirm after P.O & P.I.M	Ok

**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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شماره پیمان:  ۰۵۳ - ۰۷۳ - ۹۱۸۴	TBE FOR POWER & CONTROL CABLES							شماره صفحه : ۸ از ۱۵
	نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	
	D00	0014	TB	EL	120	PEDCO	GCS	
	BK							

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							
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
3.3	Conductor Construction	Solid	Stranded (class 2)	Ok	NA	Ok	N.A	Ok
		Circular Stranded S<=25mm	Circular Stranded S<=35 mm <sup>2</sup>	Ok	Circular Stranded S<=35mm	Ok	Circular Stranded S<=35mm	Ok
		Shaped Stranded S>=35mm	Shaped Stranded S>=50 mm <sup>2</sup> (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 <sup>2</sup>	Ok	NA	Ok	N.A	Ok
3.4	Maximum Conductor Temperature	90°C (for XLPE Insulation)	OK	Ok	Confirmed	Ok	Confirmed	Ok
		70°C (for PVC Insulation)	OK	Ok	NA	Ok	Confirmed	Ok
3.5	Maximum Conductor Temperature - Short Circuit	250°C (for XLPE Insulation)	OK	Ok	Confirmed	Ok	Confirmed	Ok
		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



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شماره پیمان:  ۰۵۳ - ۰۷۳ - ۹۱۸۴	TBE FOR POWER & CONTROL CABLES								شماره صفحه : ۹ از ۱۵
	نسخه	سریال	نوع مدرک	رشته	تجهیزات	صادر کننده	بسته کاری	پروژه	
	D00	0014	TB	EL	120	PEDCO	GCS	BK	

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							
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	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]	1m	OK	Ok	Confirmed	Ok	Confirmed	Ok
3.28	Marking Items	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
		Manufacturer’s name	OK	Ok	Confirmed	Ok	Confirm after P.O	Ok
		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. Electrical 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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	نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	
	D00	0014	TB	EL	120	PEDCO	GCS	
	پروژه	BK						

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. 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. Drum 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. Test Items								
7.2	Routine Tests: (as minimum) - Conductor Resistance Measurement - High Voltage Power Frequency Test - Insulation Resistance Measurement - Partial Discharge Test	Yes  By Vendor	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

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



	<div>نگهداشت و افزایش تولید میدان نفتی بینک</div> <div>سطح الارض</div> <div>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</div>							
شماره پیمان:  ۰۵۳ - ۰۷۳ - ۹۱۸۴	TBE FOR POWER & CONTROL CABLES							شماره صفحه : ۱۲ از ۱۵
	نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	
	D00	0014	TB	EL	120	PEDCO	GCS	
	BK							

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							
3.1	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
3.3	Conductor Construction	Solid	Stranded (class 2)	Ok	NA	Ok	N.A	Ok
		Circular Stranded S<=25mm	-	Ok	Circular Stranded	Ok	Circular Stranded S<=35mm	Ok
		Shaped Stranded S>=35mm	-	Ok	NA	Ok	Shaped Stranded S>=50mm	Ok
		Compressed Circular Stranded	-	Ok	NA	Ok	N.A	Ok
3.4	Maximum Conductor Temperature	90°C (for XLPE Insulation)	OK	Ok	NA	Ok	Confirmed	Ok
		70°C (for PVC Insulation)	OK	Ok	Confirmed	Ok	Confirmed	Ok
3.5	Maximum Conductor Temperature - Short Circuit	250°C (for XLPE Insulation)	OK	Ok	NA	Ok	Confirmed	Ok
		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

	<div>نگهداشت و افزایش تولید میدان نفتی بینک</div> <div>سطح الارض</div> <div>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</div>							
شماره پیمان:  ۰۵۳ - ۰۷۳ - ۹۱۸۴	TBE FOR POWER & CONTROL CABLES							شماره صفحه : ۱۳ از ۱۵
	نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	
	D00	0014	TB	EL	120	PEDCO	GCS	
	BK							

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
3.28	Marking Items	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
		Manufacturer’s name	OK	Ok	Confirmed	Ok	Confirm after P.O	Ok
		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. Electrical 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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شماره پیمان:  ۰۵۳ - ۰۷۳ - ۹۱۸۴	TBE FOR POWER & CONTROL CABLES							شماره صفحه : ۱۴ از ۱۵
	نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	
	D00	0014	TB	EL	120	PEDCO	GCS	
	پروژه	BK						

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							
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. Mechanical 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. Drum 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. Test Items								
7.1	Routine Tests: (as minimum) - Conductor Resistance Measurement - High Voltage Power Frequency Test - Insulation Resistance Measurement - Partial Discharge Test	Yes  By Vendor	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

Status Legends

A=Acceptable

N=Not Acceptable

N/A=Not Applicable

INA=Information Not Available

C=Clarification is required

CA= Conditionally Acceptable

M = Requirement is Mandatory



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	نسخه	سریال	نوع مدرک	رشته	تجهیزات	صادرکننده	بسته کاری	پروژه	
	D00	0014	TB	EL	120	PEDCO	GCS	BK	

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.