



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیمان:

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TRE FOR LV SWITCHGEAR	MCC & LV CAPACITOR BANK
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پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه
BK	GCS	PEDCO	120	EL	TB	0002	D00

شماره صفحه: ۱ از ۱۸

طرح نگهداشت و افزایش تولید 27 مخزن

TBE FOR LV SWITCHGEAR, MCC & LV CAPACITOR BANK

نگهداشت و افزایش تولید میدان نفتی بینک

Rev.	Date	Purpose of Issue/Status	Prepared by:	Checked by:	Approved by:	Client Approval
D00	Nov. 2024	IFI	M.Pourdasht	M.Fakharian	M.Sadeghian	

Class:3 Client Doc. Number: F0Z-709330

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



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

TBE FOR LV SWITCHGEAR, MCC & LV CAPACITOR BANK

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پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه
BK	GCS	PEDCO	120	EL	TB	0002	D00

شماره صفحه: ۲ از ۱۸

REVISION RECORD SHEET

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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:		TBE FOR LV SWITCHGEAR, MCC & LV CAPACITOR BANK									
·54 - ·74 — 3184	پروژه	بسته کاری	صادركننده	تسهيلات	رشته	نوع مدرك	سر یال	نسخه			
w,	ВК	GCS	PEDCO	120	EL	ТВ	0002	D00			

شماره صفحه: ۳ از ۱۸

			TBE for LV S	witchge	ar					
MR Item	PMR For LV Switchgear, MCC & LV Capacitor Bank (BK-GCS-PEDCO-120-EL-MR-0002) Description	Purchaser Requirement	Ista Noavaran Niroo	Status	Pars Tableau	Status	Taban Tablo Shargh	Status	Runin Sanat	Status
1. General										
1.1	Name of Project / Plant	Binak Oilfield in Bushehr Province	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
1.2	Reference Doc.	 IPS-M-EL-143(3) LV Switchgear/MCC Single Line Diagram (BK-GCS-PEDCO-120-EL-SL-0002) Specification For LV Switchgear & Motor Control Centers (BK-GNRAL-PEDCO-000-EL-SP-0001) Electrical Typical Schematic Diagrams For LV Panel (BK-GCS-PEDCO-120-EL-DG-0002) Electrical System Design Criteria (BK-GNRAL-PEDCO-000-EL-DC-0001) Process Basis of Design (BK-GNRAL-PEDCO-000-PR-DB-0001) 	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
1.3	Manufacturer of Cubicles	By Vendor	Ista Noavaran Niroo Co	A	Pars Tableau	A	Taban Tablo Co	A	Runin Sanat Gostar	A
1.4	Manufacturer Type No./Country Origin	By Vendor	Sivacon 8PT / Siemens	A	DNF6-Iran	A	Sivacon 8pt	A	Iran	С
1.5	Standard	IEC60439, IEC60947, IPS-M-EL-143(3)	IEC61439-1, IEC60947, IPS-M-EL-143(3)	A	Confirmed	A	Confirmed	A	Confirmed	A
1.6	Type Of Cubicle - Fixed/ With draw able	With Draw Able	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
1.7	Rated Voltage & Variation	400 VAC & ± 10%	400 VAC & ± 5%	A	Confirmed	A	Confirmed	A	Confirmed	A
1.8	Rated Frequency & Variation	50 HZ & ± 5%	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
1.9	Service Voltage	400 VAC	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
1.10	Number Of Phases	3PH + PE + N	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
1.11	Number of Cubicles (With Spare)	By Vendor	18	A	Acc To Tech Offer		Pls refer to our technical offer		20	A
1.12	Number of Bus Sections	3	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
1.13	Power Frequency (One Min)	1.89 KV (ACC to Table 8 of IEC 61439-1)	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
1.14	Impulse Withstand	6 KV (ACC to Table G.1 of IEC 61439-1)	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
1.15	Rated Normal Current of Bus bars	2000 A	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:		TBE FOR LV SWITCHGEAR, MCC & LV CAPACITOR BANK								
·۵۳ - ·۷۳ - ۹۱۸۴	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سر يال	نسخه		
	ВК	GCS	PEDCO	120	EL	ТВ	0002	D00		

شماره صفحه: ٤ از ١٨

			TBE for LV S	witchge	ar					
MR Item	PMR For LV Switchgear, MCC & LV Capacitor Bank (BK-GCS-PEDCO-120-EL-MR-0002) Description	Purchaser Requirement	Ista Noavaran Niroo	Status	Pars Tableau	Status	Taban Tablo Shargh	Status	Runin Sanat	Status
1.16	Rated Short Current of Bus bars	50 KA	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
1.17	Rated Peak Withstand Current	125 KA	Based IEC 61439-1 Table 7 (Peak current) is considered 105kA	A	Confirmed	A	Confirmed	A	Confirmed	A
1.18	Rated Short Time Duration	1 SEC.	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
1.19	System Earthing	Solidly Earthed At Transformer Neutral Point	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
1.20	Voltage of Control Circuit	Incoming/Tie: 110 VDC Outgoing: 230 VAC (by Isolation Transformer for each Cubicle, According to BK-GCS- PEDCO-120-EL-SL-0002	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
1.21	Incoming Feeder Signaling Circuit	110 VDC	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
1.22	Motor & Heater Outgoing Feeder Signaling Circuit	230 VAC	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
1.23	Distribution Outgoing Feeder Signaling Circuit	230 VAC	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
1.24	Panel Light Auto. Door Micro Switch Operated	230 VAC	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
1.25	Internal Safety Interlocks	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
2. I	Environmental Conditions (Process Basis Designation	gn, BK-GNRAL-PEDCO-000-PR-DB-0001)								
2.1	Installation	Indoor, Safe Area	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
2.2	Max. Ambient Temperature	52 °C	Design Temp is 40 °C	С	Confirmed	A	Confirmed	A	Design Temperature Was Considered 40 °C	С
2.3	Min. Ambient Temperature	5 °C	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
2.4	Relative Humidity (Max.)	100%	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
2.5	Climate	Corrosive, Hot Atmosphere	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
2.6	Altitude Above Sea Level	12.5 m	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
3. (Cubicle Construction									
3.1	Enclosure	Metal Clad	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
3.2	Indoor / Outdoor	Indoor	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:		TBE FOR LV SWITCHGEAR, MCC & LV CAPACITOR BANK								
·۵۳ - ·۷۳ — 91AF	پروژه	بسته کاری	صادر كننده	تسهيلات	رشته	نوع مدرك	سر يال	نسخه		

PEDCO

GCS

BK

شماره صفحه: ٥ از ۱۸

TBE for	LV	Switch	gear
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EL

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120

MR	PMR For LV Switchgear, MCC & LV Capacitor Bank (BK-GCS-PEDCO-120-EL-MR-0002)	Purchaser Requirement	Ista Noavaran Niroo	Status	Pars Tableau	Status	Taban Tablo Shargh	Status	Runin Sanat	Status
Item	Description									
3.3	Type of Installation	Floor Standing	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
3.4	Bus Bar Material	Hard Drown, High Conductivity Copper	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
3.5	Main Bus Bar Insulation Material	Flame Retardant, Non Hygroscopic Insulation Material	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
3.6	Bus Bar color	L1: Red , L2: Yellow , L3: Blue , N: Black	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
3.7	Shape of Main Bus Bars	By Vendor	Based on Siemens Standard	A	Acc To Tech Offer	С	2*80*10 Per phase	A	After contract	A
3.8	Neutral Bus Bar Cross Section	By Vendor	Based on Siemens Standard	A	Acc To Tech Offer	C	1*80*10	A	After contract	A
3.9	Type / Material of Main Bus Bar Supporting Insulators	By Vendor	Based on Siemens Standard	A	Acc To Tech Offer	С	1*80*10	A	After contract	A
3.10	Bus Bar Joints	Silver Plated	Confirmed	A	Confirmed	A	Tin plated (Main busbar, not only joint)	С	Confirmed	A
3.11	Bus Bar Identification	By Vendor	Based on Siemens Standard	A	Acc To Tech Offer	С	Label	A	After contract	A
3.12	Bus Bar Arrangement (Single / Duplicate)	By Vendor	Based on Siemens Standard	A	Acc To Tech Offer	С	Duplicate	A	After contract	A
3.13	Phase Bus Bar Cross Section	By Vendor	Based on Siemens Standard	A	Acc To Tech Offer	С	2*80*10 Per phase	A	After contract	A
3.14	Earth Bus Bar Cross Section	By Vendor	Based on Siemens Standard	A	Acc To Tech Offer	С	1*40*10	A	After contract	A
3.15	Bus bar Cooling Method	Air Natural	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
3.16	Rear / Front Access	Front Access	Rear Access (limited space in the switchgear room)	A	Confirmed	A	Rear Access (limited space in the switchgear room)	A	Confirmed	A
3.17	Incomings / Outgoings To/From The Switchgear (Bus-Duct/Cable)	Incomings: Cable Outgoings: Cable	Confirmed Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
3.18	Top / Bottom Entry	Cable: Bottom	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
3.19	Degree of Protection	IP42	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
3.20	Min. Cubicle Sheet & Door Thickness For Enclosure	2 mm	Confirmed	A	Confirmed	A	2 mm for body enclosure	С	Confirmed	A
3.21	Tropic Design	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
3.22	Provision For Extension at Each End of Switchgear	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
3.23	Paint Color Shade	Ral 7032 (Light Grey)	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A





احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیمان: TBE FOR LV SWITCHGEAR, MCC & LV CAPACITOR BANK نوع مدرك بسته کاری صادر كننده سر يال پروژه · ۵۳ - · ۷۳ - 9 1 A F GCS PEDCO EL TB BK 120 0002 D00

شماره صفحه: ٦ از ۱۸

TBE for LV Switchg

MR	PMR For LV Switchgear, MCC & LV Capacitor Bank (BK-GCS-PEDCO-120-EL-MR-0002)	Purchaser Requirement	Ista Noavaran Niroo	Status	Pars Tableau	Status	Taban Tablo Shargh	Status	Runin Sanat	Status
Item	Description									
3.24	Thickness of Paint Coating	60 – 80 Micron	Confirmed	A	Confirmed	A	Confirmed	A	80-120 Micron	C
4.	Circuit Breaker (ACB)									
4.1	Manufacturer / Country	By Vendor	ABB/SIEMENS West Europe	A	Schneider	A	ABB	A	Schneider	A
4.2	Manufacturer Type No.	By Vendor	3WL/3VA/Emax	A	NW/NT	A	Emax	A	NW/NT	A
4.3	Type Of Main CB (Air / Vacuum / Others)	Air	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
4.4	No. of Poles in Main ACB	4 Pole	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
4.5	Rated Insulation Voltage	1000 VAC	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
4.6	Rated Operating Voltage	400 VAC	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
4.7	Rated Current	By Vendor, Based on Load List (BK-GCS- PEDCO-120-EL-LI-0001)	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
4.8	Rated Breaking Current *	50 KA	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
4.9	Rated Making Current *	125 KA	Based on IEC 61439-1 : 105kA	A	Confirmed	A	Confirmed	A	Confirmed	A
4.10	S/C Withstanding Time	1 SEC.	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
4.11	Closing Time	By Vendor	5-10 s	A	Acc To Catalog	A	5-10 s	A	After contract	С
4.12	Tripping Time	By Vendor	40 ms	A	Acc To Catalog	A	40 ms	A	After contract	С
4.13	Rated Electrical Life	By Vendor	10000	A	Acc To Catalog	A	10000	A	After contract	С
4.14	Power Consumption of Closing Coil	By Vendor	5~10W	A	Acc To Catalog	A	5~10W	A	After contract	С
4.15	Power Consumption of Tripping Coil	By Vendor	5~10W	A	Acc To Catalog	A	5~10W	A	After contract	С
4.16	Power Consumption of Spring Charging Motor	By Vendor	60~90W	A	Acc To Catalog	A	60~90W	A	After contract	С
4.17	Spring Charge Motor Voltage Supply	110 VDC	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
4.18	No. of Circuit Breaker Operating With Charged Spring	5	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
4.19	Anti-Pumping Feature	Yes	Confirmed	A	Confirmed	A	Confirmed	A	It Is Not Considered	С
4.20	Shutters	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:	نسخه سريال نوع مدر ک رشته تسهيلات صادر کننده بسته کاری پروژه							
·^~_ ·V~— •\^	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سر يال	نسخه
W 1 (171)	ВК	GCS	PEDCO	120	EL	ТВ	0002	D00

شماره صفحه: ۲ از ۱۸

			TBE for LV S	witchge	ar					
MR	PMR For LV Switchgear, MCC & LV Capacitor Bank (BK-GCS-PEDCO-120-EL-MR-0002)	Purchaser Requirement	Ista Noavaran Niroo	Status	Pars Tableau	Status	Taban Tablo Shargh	Status	Runin Sanat	Status
Item	Description									
4.21	Additional Auxiliary Contacts	By Vendor	If Required	A	Acc To Catalog	A	By Aux Relay	A	Refer to technical proposal	A
4.22	Closed/Open Position Indication	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
4.23	Charged/Discharged Spring Indication	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
5. I	МССВ									
5.1	Manufacturer of MCCB	By Vendor	ABB/SIEMENS west Europe	A	Schneider	A	ABB	A	Schneider	A
5.2	Rated Insulation Voltage	1000 VAC	690/1000 VAC	A	Confirmed	A	Confirmed	A	Confirmed	A
5.3	Rated Operating Voltage	400 VAC	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
5.4	Rated Current	According to "BK-GCS-PEDCO-120-EL-SL-0002"	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
5.5	NO. of Poles	3 Pole	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
6. 8	Switch-Fuse									
6.1	Manufacturer of Switch-Fuse	By Vendor	ETI / PICHAZ / ZAVIR SIEMENS /ABB	A	Schneider	A	ABB / ETI	A	NOARK	С
6.2	Rated Insulation Voltage	1000 VAC	800/1000 VAC	A	Confirmed	A	Confirmed	A	Confirmed	A
6.3	Rated Operating Voltage	400 VAC	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
6.4	Rated Current	According to "BK-GCS-PEDCO-120-EL-SL-0002"	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
6.5	NO. of Poles	3 Pole	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
7. (Contactor									
7.1	Manufacturer Country	By Vendor	ABB/Siemens	A	Schneider	A	ABB	A	Schneider	A
7.2	Manufacturer Type No.	By Vendor	3RT/AF	A	LC	A	AC3	A	LC1D	A
7.3	Type of Contactor (Air / Vacuum)	Air/AC3	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
7.4	Rated Insulation Voltage	1000 VAC	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
7.5	Rated Operating Voltage	400 VAC	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
7.6	Rated Current	By Vendor, Based On SLD	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A



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نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

HIRGAN ENERGY

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیمان: TBE FOR LV SWITCHGEAR, MCC & LV CAPACITOR BANK

سماره پیمان: و مدرک رشته تسهیلات صادر کننده بسته کاری پروژه

PEDCO

GCS

BK

شماره صفحه: ۸ از ۱۸

TBE for	LV	Switchgear
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120

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	DMD F I V C 4 I MCC 6 I V									
MR	PMR For LV Switchgear, MCC & LV Capacitor Bank (BK-GCS-PEDCO-120-EL-MR-0002)	Purchaser Requirement	Ista Noavaran Niroo	Status	Pars Tableau	Status	Taban Tablo Shargh	Status	Runin Sanat	Status
Item	Description									
7.7	Closing Time	By Vendor	4~70mS	A	Acc To Catalog	A	4~70mS	A	After contract	A
7.8	Tripping Time	By Vendor	3~5mS	A	Acc To Catalog	A	3~5mS	A	After contract	A
7.9	Power Consumption of Elec. Bobbin	By Vendor	2W	A	Acc To Catalog	A	2W	A	After contract	A
7.10	Rated Electrical Life	By Vendor	15000	A	Acc To Catalog	A	15000	A	After contract	A
7.11	Rated Short Circuit Life	By Vendor	20000	A	Acc To Catalog	A	20000	A	After contract	A
7.12	Elect. Bobbin Voltage Supply	230 VAC	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
7.13	Utilization Category	By Vendor	AC3	A	AC3	A	AC3	A	After contract	A
7.14	RC Element	Where Is Applicable	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
7.15	NO. of Poles	3 Pole	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
8.	Thermal Relays									
8.1	Manufacturer Country	By Vendor	ABB/Siemens	A	Schneider	A	ABB	A	Schneider	A
8.2	Manufacturer Type No.	By Vendor	3RB/RT	A	LRD	A	Thermal	A	LRD	A
8.3	Rated Operating Voltage	400 VAC	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
8.4	Single Phasing Protection	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
8.5	Thermal Relay Adjustable Range	By Vendor (ACC to Coordination type 2) , According to "BK-GCS-PEDCO-120-EL-SL- 0002"	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
8.6	Thermal Relay Reset Feature	Yes Via a Door Mounted Push-Button	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
9. I	PT'S-FIXED TYPE									
9.1	Manufacturer Country	By Vendor	Zafar/ Azmoon Trans	A	Azmoon Trans	A	Azmoon Trans	A	Azmoon Trans	A
9.2	Rated Operating Voltage	400/√3 VAC	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
9.3	Rated Secondary Voltage	$110/\sqrt{3} \text{ VAC}$, $230/\sqrt{3} \text{ VAC}$	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
9.4	Accuracy Class	Measuring : 1 Protection : 3P	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
9.5	Burden	By Vendor	5 VA	A	20 VA	A	15 VA	A	50 VA	A



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نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

شرکت تومه پتروایات HIRGAN ENERGY

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

تماره پیمان:

TBE FOR LV SWITCHGEAR, MCC & LV CAPACITOR BANK

ماده پیمان:

BK GCS PEDCO 120 EL TB 0002 D00

شماره صفحه: ۹ از ۱۸

			TBE for LV S	witchge	ar					
MR Item	PMR For LV Switchgear, MCC & LV Capacitor Bank (BK-GCS-PEDCO-120-EL-MR-0002) Description	Purchaser Requirement	Ista Noavaran Niroo	Status	Pars Tableau	Status	Taban Tablo Shargh	Status	Runin Sanat	Status
9.6	Single-Phase / Three-Phase	3 Phase	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
9.7	Rated Voltage Factor	By Vendor	At detail stage	A	Acc To Catalog	A	230	A	After contract	A
10.	-		č							
10.1	Manufacturer Country	By Vendor	Mag Electric	A	Mag Electric	A	Mag Electric	A	Novin Harris	С
10.2	Rated Operating Voltage	400 VAC	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
10.3	Rated Primary Current	By Vendor, Based on SLD	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
10.4	Rated Secondary Current	1 A	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
10.5	Insulation Class	By Vendor	Е	A	F	A	F	A	F	A
10.6	Accuracy Class	Measuring: 1 Protection: 5P10	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
11.	Protection	110000000000000000000000000000000000000								
11.1	Manufacturer Country	By Vendor	Built-in type	С	Schneider	A	Schneider	A	Schneider	A
11.2	Manufacturer Designation No.	By Vendor	-	С	Eassergy	A	Eassergy	A	Eassergy	A
11.3	Type of Protection Relays For Incomers/Tie	Multi-Function, Microprocessor Based	-	С	Р3	A	Р3	A	Р3	A
11.4	No. of Contacts	MIN. 4	-	С	Confirmed	A	Confirmed	A	Confirmed	A
11.5	Contact Rating Current	5 A	-	С	Confirmed	A	Confirmed	A	Confirmed	A
11.6	Auto Diagnostic & Self Supervision	Yes	-	С	Confirmed	A	Confirmed	A	Confirmed	A
11.7	Serial Link Communication Port	Yes	-	С	Confirmed	A	Confirmed	A	Confirmed	A
12.	Measuring & Control System									
12.1	Manufacturer of Indicators / Country	By Vendor	Ziegler	A	Schneider	A	Schneider	A	BEW	C
12.2	Accuracy Class Of Indicators	CL.1	CL: 1.5	С	Confirmed	A	Confirmed	A	1.5	С
12.3	Manufacturer of Selector Switch	By Vendor	TRS	A	KAVEH	A	Trs / Raad	A	Schneider	A
12.4	Manufacturer of Push Buttons	By Vendor	Schneider/Raad	A	Schneider	A	Raad	С	Schneider	A



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:			TBE FOR LV	SWITCHGEAR, MCC &	LV CAPACITOR BAN	ık		
·۵۳ - ·V۳ - 9184	پروژه	بسته کاری	صادركننده	تسهيلات	رشته	نوع مدرک	سر يال	نسخه
with the tipe	ВК	GCS	PEDCO	120	EL	ТВ	0002	D00

شماره صفحه: ۱۰ از ۱۸

TBE for	·LV	Switchgear
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MR	PMR For LV Switchgear, MCC & LV Capacitor Bank (BK-GCS-PEDCO-120-EL-MR-0002)	Purchaser Requirement	Ista Noavaran Niroo	Status	Pars Tableau	Status	Taban Tablo Shargh	Status	Runin Sanat	Status
Item	Description									
12.5	Manufacturer of Indication Lamps	By Vendor	Schneider/Raad	A	Schneider	A	Raad	С	Schneider	A
12.6	Manufacturer of Terminals	By Vendor	Raad	A	Raad	A	Raad	A	Raad	A
12.7	Manufacturer of AUX. Relays	By Vendor	Omron	A	Weidmueller	A	Omron	A	Weidmueller	A
12.8	Remote Control Indication / Alarm / Inter trip / ET C.	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
12.9	Mimic Diagram	Not Applicable	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
12.10	Size of Control Wiring	2.5 mm2 for CT'S 1.5 mm2 for Other	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
12.11	Ammeter / Voltmeter Manufacture	By Vendor	Ziegler	A	BEW	С	BEW	С	BEW	C
12.12	Ammeter / Voltmeter Class	CL.1	CL: 1.5	С	Confirmed	A	Confirmed	A	1.5	С
12.13	Ammeter / Voltmeter range	According to "BK-GCS-PEDCO-120-EL-SL-0 002"	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
12.14	Multi Meters Manufacture	By Vendor	Schneider	A	Schneider	A	DM6200 Schneider	A	Schneider	A
12.15	Multi Meters Class	CL.0.5	Confirmed	A	Confirmed	A	Confirmed	A	1	С
13. I	Miscellaneous									
13.1	Routine Tests Foreseen	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
13.2	Type Tests Foreseen	No, If Certified	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
13.3	Two Years Op. & Comis. Spare Parts Proposed	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
13.4	Special Tools	Yes, If Required	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
13.5	Accessories	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
13.6	Mimic Diagram for Each Cubicle	Yes for Incoming	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
13.7	Dimension of One Cubicle (H X W X D)	By Vendor	2200*800*600 / 1200 mm	С	2350*900*1800	A	2200*800*600 / 1000 mm	С	2200*800*600 / 1000 mm	C
13.8	Overall Dimension (H X W X D)	By Vendor	After Detail Desig	A	After Detail Desig	A	After Detail Desig	A	After Detail Desig	С
13.9	Weight of One Cubicle	By Vendor	250~320 Kg per cel	A	250~320 Kg per cel	A	250~320 Kg per cel	A	250~320 Kg per cel	A
13.10	Total Weight of Cubicles	By Vendor	After Detail Desig	A	Acc To Tech Offer	A	After Detail Desig	A	After Detail Desig	A



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نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

شرکت تور ترویا^ن HIRGAN ENERGY

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

تماره پیمان:

TBE FOR LV SWITCHGEAR, MCC & LV CAPACITOR BANK

ماره پیمان:

BK GCS PEDCO 120 EL TB 0002 D00

شماره صفحه: ۱۱ از ۱۸

			TBE for LV S	witchge	ar					
MR Item	PMR For LV Switchgear, MCC & LV Capacitor Bank (BK-GCS-PEDCO-120-EL-MR-0002) Description	Purchaser Requirement	Ista Noavaran Niroo	Status	Pars Tableau	Status	Taban Tablo Shargh	Status	Runin Sanat	Status
13.11	Time Schedule Prepared	By Vendor	Based on Offer	A	Confirmed	A	After P.O	A	After contract	A
13.12	Delivery Time	By Vendor	120 Day	A	Confirmed	С	3months	A	After contract	С
13.13	Any Deviations From Spec.	By Vendor	Based on Offer	C	Confirmed	C	As Attached	C	Refer To Technical Proposal	С
14.	Accessories								20,500	
14.1	Illumination (Y/N)	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
14.2	Lifting Lugs (Y/N)	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
14.3	Space Heater With Thermostat (Y/N)	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
14.4	C.B. Position Indicator	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
14.5	Door Key (Y/N)	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
14.6	C.B. Charging / Retracting (Y/N)	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
14.7	Voltage and Current Test Block for Protection Rel ays (Y/N)	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
14.8	Lamp Test Facility (Y/N)	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Based On SLD	С
14.9	Automatic Shutter (Y/N)	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
14.10	Floor Frame (Y/N)	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
14.11	C.B. Transfer Trolley (Y/N)	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
14.12	Name Plate & Front Tag & Rear Side Tag (Y/N)	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
14.13	Telescopic Rotary Handle for MCCB(Y/N)	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
15.	Mechanical Interlock									
15.1	Door Shall Not Able To Open When C.B. Is Closed	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
15.2	Impossibility of C.B. Rack-In / Rack-Out When C. B. Is Closed	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
15.3	Padlock for C.B.	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
15.4	MCCB Open / Close From Closed Door Through Lockable Telescopic Rotary Handle	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A



· ۵۳ - · ۷۳ - 9118

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

HIRGAN ENERGY

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیمان: TBE FOR LV SWITCHGEAR, MCC & LV CAPACITOR BANK بسته کاری صادر کننده تسهيلات نوع مدرك پروژه سريال TB BK GCS PEDCO 120 EL 0002 D00

شماره صفحه: ۱۲ از ۱۸

	TBE for LV Switchgear											
MR	PMR For LV Switchgear, MCC & LV Capacitor Bank (BK-GCS-PEDCO-120-EL-MR-0002)	Purchaser Requirement	Ista Noavaran Niroo	Status	Pars Tableau	Status	Taban Tablo Shargh	Status	Runin Sanat	Status		
Item	Description											
16. 1	16. Panel Space Heater Technical Data											
16.1	Voltage	230 VAC	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A		
16.2	Power Consumption	By Vendor	100 W	A	80 W	A	100W	A	60 W	A		
17.	Panel Light Technical Data											
17.1	Type No.	By Vendor	LED	A	LED	A	LED	A	LED	A		
17.2	Voltage	230 VAC	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A		
17.3	Power Consumption	By Vendor	8 W	A	5 W	A	8 W	A	5 W	A		

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





احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیمان: TBE FOR LV SWITCHGEAR, MCC & LV CAPACITOR BANK نوع مدرك بسته کاری صادر كننده سر يال پروژه .04 - .74 - 4176 GCS PEDCO EL TB BK 120 0002 D00

شماره صفحه: ۱۳ از ۱۸

			TBE for 1	LV Capa	ncitor Bank					
MR	PMR For LV Switchgear, MCC & LV Capacitor Bank (BK-GCS-PEDCO-120-EL-MR-0002)	Purchaser Requirement	Ista Noavaran Niroo	Status	Pars Tableau	Status	Taban Tablo Shargh	Status	Runnin Sanat	Status
Item	Description									
	eneral Information	10.6 F 11440 11 01 01	~ ~ .			1 . 1		l .		
1.1	Quantity	1 Set for Each LV Switchgear (Note 2)	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
1.2	Tag Numbers	CB01 & CB02	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
1.3	Applicable Standards	IEC 60831 IPS-M-EL-181(2) IPS-M-EL-143(3)	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
1.4	Applicable Document	BK-GNRAL-PEDCO-000-EL-SP-0012 BK-GCS-PEDCO-120-EL-CN-0011 BK-GNRAL-PEDCO-000-EL-SP-0001	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
1.5	Manufacturer's Name	By Vendor	Ista Noavaran Niroo Co	A	Pars Tableau	A	Taban Tablo	A	Runnin Sanat	A
2. E1	2. Environmental Conditions (Process Basis Design, BK-GNRAL-PEDCO-000-PR-DB-0001)									
2.1	Location	Binak Oilfield in Bushehr Province	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
2.2	Hazardous Area Classification	Safe	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
2.3	Max. Outdoor Ambient Temperature	55°C	Design temperature: 40°C	С	Confirmed	A	Confirmed	A	Design temperature: 40°C	С
2.4	Minimum Indoor Ambient Temp.	-5°C	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
2.5	Maximum Indoor Relative Humidity	100%	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
2.6	Altitude (Above Sea Level)	12.5 m	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
2.7	Seismic Factor	Zone 3	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
2.8	Installation	Indoor	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
3. El	ectrical Data									
3.1	System Voltage	400V AC ±10%	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
3.2	System Frequency	50 Hz ±5%	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
3.3	No. of Phases	3	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
3.4	Control Voltage	230 VAC	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
3.5	Space Heater Voltage	230 VAC	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A



شرکت تور تروارا^ن HIRGAN ENERGY

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیمان: TBE FOR LV SWITCHGEAR, MCC & LV CAPACITOR BANK نوع مدرك بسته کاری صادر كننده سر يال پروژه · ۵۳ - · ۷۳ - 9118 GCS PEDCO EL TB BK 120 0002 D00

شماره صفحه: ۱۶ از ۱۸

			TBE for l	LV Capa	acitor Bank						
MR Item	PMR For LV Switchgear, MCC & LV Capacitor Bank (BK-GCS-PEDCO-120-EL-MR-0002) Description	Purchaser Requirement	Ista Noavaran Niroo	Status	Pars Tableau	Status	Taban Tablo Shargh	Status	Runnin Sanat	Status	
3.6	Bus-Bar Rated Current	315A	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	
3.7	Short Time Withstand Current	50 kA, 1 Sec.	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	
3.8	Bus-Bars Material	Heat Shrink Copper	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	
3.9	Bus-Bars Joints	Silver Plated	Confirmed	A	Confirmed	A	Tin plated (Main busbar, not only joint)	С	Confirmed	A	
4. Eı	4. Enclosure Data										
4.1	Enclosure Type	Free Standing/Fixed Type / Front Access	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	
4.2	Degree of Protection	IP 42	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	
4.3	Cable Entry	Bottom (by Cable Gland)	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	
4.4	Type & Size of Power Cable	According to "BK-GCS-PEDCO-120- EL-CN-0003" (4C×120 mm2 CU/XLPE/SWA/PVC)	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	
4.5	Control Cable	2×(5C× 4 mm2) for Current & Voltage Sample	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	
4.6	Material	Painted Sheet Steel	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	
4.7	Color	RAL 7032	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	
4.8	Dimensions (HxWxD)	By Vendor	At detail stage	A	At detail stage	A	2200*800*800	A	At detail stage	A	
4.9	Sheet Steel Thickness (Body/Frame)	2mm/2.5mm	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	
4.10	Weight	By Vendor	300 ~ 350 Kg	A	300 ~ 350 Kg	A	300 ~ 350 Kg	A	300 ~ 350 Kg	A	
5. Ca	apacitors										
5.1	Capacitor Manufacturer/Model No./Year	By Vendor	PKC	A	Hydra	С	FARAKOH/; IFASA/ SABAKHAZEN	A	Palayesh Nirou	A	
5.2	Rating of each Capacitor Bank	140Kvar = 1x20Kvar Fix + 6x20Kvar	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	
5.3	Capacitor Bank Rated Current	By Vendor	At detail stage	A	At detail stage	A	At detail stage	A	At detail stage	A	
5.4	Capacitor Bank Rated Voltage	440V	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:			TBE FOR LV S	SWITCHGEAR, MCC &	LV CAPACITOR BAN	ık		
·54 - ·74 — 1184	پروژه	بسته کاری	صادر كننده	تسهيلات	رشته	نوع مدرک	سر يال	نسخه
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شماره صفحه: ۱۵ از ۱۸

			TBE for I	LV Capa	acitor Bank						
MR Item	PMR For LV Switchgear, MCC & LV Capacitor Bank (BK-GCS-PEDCO-120-EL-MR-0002) Description	Purchaser Requirement	Ista Noavaran Niroo	Status	Pars Tableau	Status	Taban Tablo Shargh	Status	Runnin Sanat	Status	
5.5	Capacitor Bank Connection Type	Delta	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	
5.6	Capacitor Unit Temp. Category	-5/D	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	
5.7	Capacitor Unit Case Material	Aluminum	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	
5.8	Capacitor Unit Discharge time (to 75V)	<3 Minutes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	
6. C	6. Control Unit (Regulator)										
6.1	Manufacturer / Type	By Vendor	PKC	A	PKC	A	Schneider	A	Palayesh Nirou	A	
6.2	Mode of Operation	Automatic & Manual	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	
6.3	Number of Steps	5 Steps	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	
6.4	Selector Switch	Auto/Off/Manual Selector Switch For Each Step	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	
7. Fu	uses										
7.1	Manufacturer / Type	By Vendor	ETI	A	Pichaz	A	Pichaz	A	ETI	A	
7.2	Rated Current	1.5 times of Capacitor Rated Current	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	
7.3	Inrush Current	100 times of Capacitor Rated Current	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	
7.4	Rated Voltage	500V	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	
7.5	Service Voltage	400V±10%	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	
7.6	Rated Frequency	50Hz±5%	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	
8. C	ontactors										
8.1	Manufacturer / Type	By Vendor	Siemens	A	Schneider	A	RK / LIFASA	A	schneider	A	
8.2	Rated Voltage	690V AC	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	
8.3	Service Voltage	400V AC	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	
8.4	Coil Voltage	230 VAC (Note 2)	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	
8.5	Duty	AC6-b	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A	



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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیمان: TBE FOR LV SWITCHGEAR, MCC & LV CAPACITOR BANK نوع مدرك بسته کاری صادر كننده سر يال پروژه .04 - .74 - 4176 GCS PEDCO EL TB BK 120 0002 D00

شماره صفحه: ۱٦ از ۱۸

			TBE for l	LV Capa	citor Bank					
MR	PMR For LV Switchgear, MCC & LV Capacitor Bank (BK-GCS-PEDCO-120-EL-MR-0002)	Purchaser Requirement	Ista Noavaran Niroo	Status	Pars Tableau	Status	Taban Tablo Shargh	Status	Runnin Sanat	Status
Item	Description									
9. In	coming Circuit Breaker							1		
9.1	Manufacturer / Type	By Vendor	ABB / Siemens	A	Schneider	A	ABB	A	schneider	A
9.2	Туре	MCCB, 4Pole, Fixed Type	Confirmed	A	Confirmed	A	Confirmed	A	3 Pole	A
9.3	Rated Current	315A	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
9.4	Rated Short Circuit Breaking Current	50 kA	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
9.5	Rated Insulation Voltage	1000 VAC	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
9.6	Service Voltage	400V	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
9.7	Internal Protections	49, 50, 51	Confirmed	A	Confirmed	A	49 & 50	A	49 & 50	A
9.8	Voltage Protection	230 VAC	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
9.9	Trip and Status aux. switches	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
10. V	oltmeter with Selector Switch									
10.1	Manufacturer / Type	By Vendor	Ziegler	A	BEW	С	Voltmeter: BEW Selectoe: TRS	C	BEW	C
10.2	Operating Range	0 -500V	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
10.3	Accuracy Class	1.5	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
11. A	ccessories									
11.1	Panel Lighting & Space Heater with Thermostat/Hygrostat	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
11.2	Door Key	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
11.3	Gland Plate	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
11.4	Terminal Lugs	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
11.5	Commissioning Spare Parts	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
11.6	Two Year Operation Spare Parts	Yes	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A
11.7	Routine Test	Witnessed and Report	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A



· ۵۳ - · ۷۳ - 9118

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

HIRGAN ENERGY

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیمان: TBE FOR LV SWITCHGEAR, MCC & LV CAPACITOR BANK نوع مدرك بسته کاری صادر کننده تسهيلات پروژه سريال TB BK GCS PEDCO 120 EL 0002 D00

شماره صفحه: ۱۷ از ۱۸

	TBE for LV Capacitor Bank											
MR	PMR For LV Switchgear, MCC & LV Capacitor Bank (BK-GCS-PEDCO-120-EL-MR-0002)	Purchaser Requirement	Ista Noavaran Niroo	Status	Pars Tableau	Status	Taban Tablo Shargh	Status	Runnin Sanat	Status		
Item	Description											
11.8	Type Test CERTIFICATE	Certificat	Confirmed	A	Confirmed	A	Confirmed	A	Confirmed	A		
12. In	rush Reactor											
12.1	Inrush Reactor Requied (Y/N)	By Vendor	PKC / Zafar / Azmoon	A	PKC	С	Farakoh	A	PKC	A		
12.2	Inductance (mH)	By Vendor	At detail stage	A	At detail stage	С	At detail stage	A	At detail stage	A		
12.3	Туре	By Vendor	At detail stage	A	At detail stage	С	At detail stage	A	At detail stage	A		

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



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:	:شماره پیمان TBE FOR LV SWITCHGEAR, MCC & LV CAPACITOR BANK													
· ۵۳ – · ۷۳ – ۹ ۱ ۸ ۴	پروژه	بسته کاری	صادركننده	تسهيلات	رشته	نوع مدرك	سر يال	نسخه						
2, ,, ,,,,	BK	GCS	PEDCO	120	EL	ТВ	0002	D00						

شماره صفحه: ۱۸ از ۱۸

Conclusion Table:

Item	Equipment	Ista Noavaran Niroo	Pars Tableau	Taban Tablo Shargh	Runin Sanat Gostar	
1	LV MCC Switchgear	Acceptable	Acceptable	Acceptable	Acceptable	
2	LV Capacitor Bank	Acceptable	Acceptable	Acceptable	Acceptable	

Conclusion Note:

- 1- The maximum design temperature of LV switchgear is 40 °C.
- 2- Protection relay is not acceptable on the C.B (Built-in type), Protection relay shall be externally type.