
 NISOC	<p>نگهداشت و افزایش تولید میدان نفتی بینک</p> <p>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 Emergency Diesel Generator</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>0004</td><td>TB</td><td>EL</td><td>120</td><td>PEDCO</td><td>GCS</td><td>BK</td></tr></table>	TBE For Emergency Diesel Generator								نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه	D00	0004	TB	EL	120	PEDCO	GCS	BK	شماره صفحه : 2 از 12
TBE For Emergency Diesel Generator																										
نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه																			
D00	0004	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 EMERGENCY DIESEL GENERATOR							شماره صفحه : 3 از 12
	نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	
	D00	0004	TB	EL	120	PEDCO	GCS	
	BK							

TBE For Emergency Diesel Generator								
MR	PMR For Emergency Diesel Generator (BK-GCS-PEDCO-120-EL-MR-0004)	Purchaser Requirement	Mah Niroo	Status	Sazand	Status	Hadid Sanat Pars Niroo	Status
Item	Description							
1. Environmental Data (Process Basis Design, BK-GNRAL-PEDCO-000-PR-DB-0001)								
1.1	Location	Binak Oilfield in Bushehr Province	Confirmed	A	Confirmed	A	Confirmed	A
1.2	Installation	Outdoor Under Shelter, Safe Area	Confirmed	A	Confirmed	A	Confirmed	A
1.3	Installation Elevation	12.5m (Above Sea Level)	Confirmed	A	Confirmed	A	Confirmed	A
1.4	Seismic Loads	Zone 3 UBC	Confirmed	A	As Manufacturer Standard	A	Confirmed	A
1.5	Relative Humidity	100%	Confirmed	A	Confirmed	A	Confirmed	A
1.6	Ambient Temperature Range	5 ~ 52°C	Confirmed	A	Confirmed	A	Confirmed	A
1.7	Atmosphere	Corrosive & Hot	Confirmed	A	Confirmed	A	Confirmed	A
2. General								
2.1	Manufacturer's Name	By Vendor	Mah Niroo	A	Sazand Eng co.	A	Volvo	A
2.2	Model	By Vendor	-	C	Volvo + Stamford	A	TAD1641GE	A
2.3	Quantity/Tag Number	1 /GCS-DG-001	Confirmed	A	Confirmed	A	Confirmed	A
2.4	Electrical Standard	IPS-E-EL-100(1) IPS-M-EL-138 (1) BK-GNRAL-PEDCO-000-EL-SP-0009	Confirmed	A	Confirmed	A	Confirmed	A
2.5	Mechanical Standard	IPS-M-PM-290 (2) BK-GCS-PEDCO-120-ME-SP-0012	Confirmed	A	Confirmed	A	Confirmed	A
2.6	References	Calculation Note for Diesel Generator Sizing (BK-GCS-PEDCO-120-EL-CN-0007)	Confirmed	A	Confirmed	A	Confirmed	A
2.7	Description of Equipment	Gen Set with Diesel Engine Prime Mover (Diesel Generator)	Confirmed	A	Confirmed	A	Confirmed	A
3. Engine Specifications								
3.1	Genset Operation Mode (Single or Parallel)	Single	Confirmed	A	Confirmed	A	Confirmed	A
3.2	Duty	Emergency Standby (Calculated for continuous operation)	Confirmed	A	Confirmed	A	Standby Duty	A
3.3	Aspiration	Turbo Charged, Intercooler	Confirmed	A	Confirmed	A	Confirmed	A
3.4	Cylinder configuration	By Vendor	In Line	A	In Line	A	In Line	A
3.5	Number of Cylinders	By Vendor	6	A	6	A	6	A
3.6	Type	Industrial, 4 strAes, Direct Injection	Confirmed	A	Confirmed	A	Confirmed	A

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شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	TBE FOR EMERGENCY DIESEL GENERATOR							شماره صفحه : 4 از 12
	نسخه	سریال	نوع مدرک	رشته	تجهیزات	صادر کننده	بسته کاری	
	D00	0004	TB	EL	120	PEDCO	GCS	

TBE For Emergency Diesel Generator								
MR	PMR For Emergency Diesel Generator (BK-GCS-PEDCO-120-EL-MR-0004)	Purchaser Requirement	Mah Niroom	Status	Sazand	Status	Hadid Sanat Pars Niroom	Status
Item	Description							
3.7	Displacement (liter)	By Vendor	16.12	A	16.12	A	16.12	A
3.8	Bore/StrAe (mm)	By Vendor	144/165	A	144/165	A	Later	C
3.9	Compression Ratio	By Vendor	16.5:1	A	16.8:1	A	Later	C
3.10	Governor Type	Electronic	Confirmed	A	Confirmed	A	Confirmed	A
3.11	Air Cleaner Type	Heavy Duty	Confirmed	A	Replaceable	N	Standard	N
3.12	Engine speed (rpm)	1500	Confirmed	A	Confirmed	A	Confirmed	A
3.13	Derating Factor for Working at Site Conditions (55°C)	0.97 (Vendor Shall Advise This Value)	Confirmed	A	Engine : No Deration Alternator :90%	N	Later	C
3.14	ISO Gross Shaft Power at (kw) Continuous Prime Maximum Standby	By Vendor >494 >506	465 Confirmed Confirmed	A A A	670 Confirmed 710	A	658 HP	A
3.15	Cooling Fan Power Requirement (kw)	10	Confirmed	A	21	A	Later	C
3.16	ISO Net Shaft Power at (kw) Continuous Prime Maximum Standby	By Vendor >496 >510	440 Confirmed Confirmed	A A A	Confirmed	A	440 KW	A
3.17	Piston Speed (m/s)	By Vendor	8.3	A	8.3	A	Later	C
3.18	Starting System	Electrical	Confirmed	A	Confirmed	A	Confirmed	A
3.19	Type of Batteries	Vented Ni-Cd	Confirmed	A	Confirmed	A	Lead Acid	N
3.20	Number of Batteries (Cell)	20 Number Cells	Confirmed	A	Confirmed	A	NO	N
3.21	Size of Batteries (Ah)	Not Less than 200 Ah	190 KPH	A	Confirmed	A	200 AH	A
3.22	Max Startup & Loading Time up to Full Load (Sec)	10 Sec	15 Sec	A	Confirmed	A	Confirmed	A
4. Lubricating System								
4.1	Type	Forced Feed by Gear Oil Pump	Confirmed	A	Confirmed	A	Confirmed	A
4.2	Total Oil Capacity Min/Max (liter)	By Vendor	42	A	48	A	Later	C
4.3	Oil Filter	By Vendor	Confirmed	A	Replaceable	A	Confirmed	A
4.4	Oil Cooler	Water Cooled	Confirmed	A	Confirmed	A	NO	N

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شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	TBE FOR EMERGENCY DIESEL GENERATOR							شماره صفحه : 5 از 12
	نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	
	D00	0004	TB	EL	120	PEDCO	GCS	
	BK							

TBE For Emergency Diesel Generator								
MR	PMR For Emergency Diesel Generator (BK-GCS-PEDCO-120-EL-MR-0004)	Purchaser Requirement	Mah Niroom	Status	Sazand	Status	Hadid Sanat Pars Niroom	Status
Item	Description							
4.5	Oil Type Required	By Vendor	40W/15	A	10W/30	A	15W/40	A
4.6	Lube Oil Consumption at: (gr/h) Continuous Power Prime Power Standby POWER	By Vendor	Volvo Standard	A	Prime : 0.10 L/h Stand By : 0.11 L/h	A	Later	C
5. Fuel System								
5.1	Type of Fuel	Gas oil	Confirmed	A	Confirmed	A	Confirmed	A
5.2	Fuel Filter Type	By Vendor	Double	A	Replaceable	A	Later	C
5.3	Permissible Suction Head	By Vendor	Double	A	As Manufacturer Standard	A	Later	C
5.4	Permissible Return Head	By Vendor	Volvo Standard	A	As Manufacturer Standard	A	Later	C
5.5	Specified Fuel Consumption at: (gr/kwh) 100% Maximum Standby Power Prime Power 100% Continuous Power	By Vendor	127 L/H IN 100% LOAD 115 L/H IN 100% LOAD 110 L/H IN 100% LOAD	A	Prime : 191 gr/Kwh Stand By : 193 gr/Kwh	A	90 L/H @ 75%	A
5.6	Daily Tank	For 8 Hours Operation	Confirmed	A	Confirmed	A	Confirmed	A
6. Cooling System								
6.1	Total Coolant Capacity (liter)	By Vendor	60	A	50	A	Later	C
6.2	Water Pump Type	Centrifugal	Confirmed	A	Confirmed	A	Later	C
6.3	Temp. Rise Across Engine at: °C Continuous Power Prime Power Standby Power	By Vendor	Volvo Standard	A	As Manufacturer Standard	A	Later	C
6.4	Heat Rejection to Exhaust (Prime Power) (kw)	By Vendor	-	C	415	A	Later	C
6.5	Heat Rejection to Coolant (Prime Power) (kw)	By Vendor	-	C	239	A	Later	C
6.6	Heat Rejection to Intercooler (Prime Power) (kw)	By Vendor	-	C	131	A	Later	C
6.7	Heat Rejection by Radiation From Engine Surface (Prime Power) (kw)	By Vendor	-	C	23	A	Later	C
6.8	Cooling Air Required for Radiator (Prime Power) (kw)	By Vendor	-	C	As Manufacturer Standard	A	Later	C
7. Air Intake								
7.1	Combustion Air Flow at: (m3/h) Standby Power	By Vendor	Volvo Standard	A	As Manufacturer Standard	A	Later	C

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شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	TBE FOR EMERGENCY DIESEL GENERATOR							شماره صفحه : 6 از 12
	پروژه	بسته کاری	صادر کننده	تجهیزات	رشته	نوع مدرک	سریال	
	BK	GCS	PEDCO	120	EL	TB	0004	

TBE For Emergency Diesel Generator								
MR	PMR For Emergency Diesel Generator (BK-GCS-PEDCO-120-EL-MR-0004)	Purchaser Requirement	Mah Niroom	Status	Sazand	Status	Hadid Sanat Pars Niroom	Status
Item	Description							
	Prime Power Continuous Power							
7.2	Max. Air Intake Restriction of Engine : hPa With New Filter With Used Filter	By Vendor	-	C	As Manufacturer Standard	A	Later	C
7.3	Alternator Cooling Air (m³/h)	By Vendor	-	C	As Manufacturer Standard	A	Later	C
8. Exhaust System								
8.1	Max. Allowable Back Pressure for Exhaust Line (pa)	By Vendor	Volvo Standard	A	As Manufacturer Standard	A	Later	C
8.2	Exhaust Flow (at Standby Power) (m³/h)	By Vendor	-	C	As Manufacturer Standard	A	Later	C
8.3	Exhaust Gas Temp. After Turbine (at Standby Power) (°C)	By Vendor	-	C	As Manufacturer Standard	A	Later	C
8.4	Silencer Type	Residential	-	C	Industrial	N	Confirmed	A
8.5	Spark Arrester	Required	Confirmed	A	Confirmed	A	NO	N
9. Engine Auxiliaries								
9.1	Alternator Manufacturer	By Vendor	Volvo Standard	A	Stamford	A	Stamford / MEC ALTE	A
9.2	Alternator Voltage (v)	By Vendor	-	C	400	A	400	A
9.3	Alternator Current (A)	By Vendor	-	C	1000	A	800	A
9.4	Starter Manufacturer	By Vendor	-	C	As Manufacturer Standard	A	Later	C
9.5	Starter Motor Voltage (v)	By Vendor	-	C	As Manufacturer Standard	A	24	A
9.6	Starter Motor Power (kw)	By Vendor	-	C	As Manufacturer Standard	A	Later	C
10. Generator Specifications								
10.1	Quantity / Duty	1 X 100% / Continuous	Confirmed	A	Confirmed	A	Standby	N
10.2	Manufacturer / Type	By Vendor	Stamford/HCI544E	A	Stamford / S5L1D-F	A	Later	C
10.3	Continuous Rating (MCR) at Standard Condition for Class F Temperature Rise (kva)	> 512kVA to meet continuous operation > 539kVA to meet starting conditions	Confirmed	A	Confirmed	A	550 KVA Stanbay	N
10.4	De-Rating Factor for Ambient Temperature K _t	0.9 (MFR shall advise his value)	Confirmed	A	9% For Alternator	N	Later	C
10.5	De-Rating Factor for Altitude K _a	1.0	Confirmed	A	Confirmed	A	Later	C

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شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	TBE FOR EMERGENCY DIESEL GENERATOR							شماره صفحه : 7 از 12
	نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	
	D00	0004	TB	EL	120	PEDCO	GCS	
	BK							

TBE For Emergency Diesel Generator								
MR	PMR For Emergency Diesel Generator (BK-GCS-PEDCO-120-EL-MR-0004)	Purchaser Requirement	Mah Niroom	Status	Sazand	Status	Hadid Sanat Pars Niroom	Status
Item	Description							
10.6	Total Generator De-Rating Factor $K_d=K_a*K_t$	0.9 (MFR Shall Advise His Value)	Confirmed	A	9% For Alternator	N	Later	C
10.7	Continuous Rating (MCR) at Site Conditions for Class F Temp. Rise (kva)	394	Confirmed	A	Confirmed	A	Class H	N
10.8	Permissible Overload (Class H Temp. Rise & Standby Duty) (kva)	10% of Rated Current for a Period of One Hour (in Each 12 Hours Function)	Confirmed	A	Confirmed	A	Not Allowed	N
10.9	Starting Capability (12% Voltage Dip at gen. Terminal)	Starting of the biggest motor while having the other loads in operation PF=0.80	Confirmed	A	As Manufacturer Standard	A	Later	C
10.10	Unbalance Loading Capacity (%)	15%	Confirmed	A	As Manufacturer Standard	A	Not Specified	N
10.11	Power Factor	0.80	Confirmed	A	Confirmed	A	Confirmed	A
10.12	Terminal Voltage (v)	400	Confirmed	A	Confirmed	A	Confirmed	A
10.13	Stator Winding Connection	Series Star	Confirmed	A	Confirmed	A	Confirmed	A
10.14	Frequency (Hz)	50	Confirmed	A	Confirmed	A	Confirmed	A
10.15	Grounding	Solidly Grounded	Confirmed	A	Confirmed	A	Confirmed	A
10.16	Neutral Point	Brought out	Confirmed	A	Confirmed	A	Confirmed	A
10.17	Insulation Class	F	Confirmed	A	H	N	H	N
10.18	Temp. Rise for Continuous Duty	B	Confirmed	A	Confirmed	A	H	N
10.19	Ingress Protection of Terminal Box	IP55W	Confirmed	A	IP55	N	Confirmed	A
10.20	Ingress Protection for Generator	IP23	Confirmed	A	Confirmed	A	Confirmed	A
10.21	Short Circuit Ratio at Rated Volts & Current	By Vendor	refer to catalog	C	As Manufacturer Standard	A	Later	C
10.22	Synchronous Reactance X_d (Base 600kVA, 400V, Saturated) (pu)	By Vendor	-	C	2.62	A	Later	C
10.23	Direct Axis Transient Reactance $X'd1$ (pu)	By Vendor	-	C	0.14	A	Later	C
10.24	Direct Axis sub-Trans. Reactance $X''d$ (pu)	By Vendor	-	C	0.1	A	Later	C
10.25	Quadrature Axis Reactance X_q (pu)	By Vendor	-	C	2.19	A	Later	C
10.26	Quadrature Axis Sub-Trans. Reactance $X''q$ (pu)	By Vendor	-	C	0.23	A	Later	C
10.27	Zero Sequence Reactance X_0 (pu)	By Vendor	-	C	0.08	A	Later	C
10.28	Negative Sequence Reactance X_2 (pu)	By Vendor	-	C	0.16	A	Later	C

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شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	TBE FOR EMERGENCY DIESEL GENERATOR							شماره صفحه : 8 از 12
	پروژه	بسته کاری	صادرکننده	تجهیزات	رشته	نوع مدرک	سریال	
	BK	GCS	PEDCO	120	EL	TB	0004	

TBE For Emergency Diesel Generator								
MR	PMR For Emergency Diesel Generator (BK-GCS-PEDCO-120-EL-MR-0004)	Purchaser Requirement	Mah Niroom	Status	Sazand	Status	Hadid Sanat Pars Niroom	Status
Item	Description							
10.29	Leakage Reactance XL (pu)	By Vendor	-	C	0.04	A	Later	C
10.30	Time Constants (sec) Td' Td'' Ta	By Vendor	-	C	0.08 0.012 0.019	A	Later	C
10.31	Generator Efficiency at: 1/2 Full Load (%) 3/4 Full Load (%) 4/4 Full Load (%)	By Vendor	-	C	95.4 95.5 95	A	Later	C
10.32	Number of Bearings	1 (2 is preferred)	Confirmed	A	Confirmed	A	Confirmed	A
10.33	Type of Bearings / Lubrication	Anti-friction / Grease	Confirmed	A	Ball / Confirmed	A	Confirmed	A
10.34	Generator Space Heater - Voltage (v) - Power (w)	Required 230 By Vendor	Confirmed Confirmed 500 W	A A	Confirmed	A	Confirmed	A
10.35	Exciter Type	Self-Excited (PMG is preferred) Brushless, 3 phase sensing	Confirmed	A	Self-Excited	A	Confirmed	A
10.36	Exciter Voltage	By Vendor	80	A	As Manufacturer Standard	A	Later	C
10.37	Exciter Manufacturer	By Vendor	Stamford	A	Stamford	A	Later	C
10.38	AVR Model	By Vendor	AS450	A	AS440	A	Later	C
10.39	Voltage Regulation	±5%	Confirmed	A	±1%	A	Later	C
10.40	Exciter Current at: (A) Continuous Operation Short time Overload	By Vendor	Stamford Standard	A	As Manufacturer Standard	A	Later	C
11. Control Panel								
11.1	Manufacturer	By Vendor	Mah niroom Ind	A	Sazand Eng Co.	A	Deep Sea	A
11.2	Standard	IEC, IPS-M-EL-143(3)	Stamford	A	As Manufacturer Standard	A	IEC	A
11.3	Type	Fixed	Confirmed	A	Confirmed	A	Confirmed	A
11.4	Construction	Self-Standing	Confirmed	A	Confirmed	A	Skid Mounted	N
11.5	Sheet Steel Thickness	2mm Wall / 2.5 mm Frame	Confirmed	A	Confirmed	A	Later	C
11.6	Access	Front Via Hinged Door	Confirmed	A	Confirmed	A	Skid Mounted	N
11.7	Location	Outdoor (Under Shelter)	Confirmed	A	Confirmed	A	Inside Canopy	N

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	نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	
	D00	0004	TB	EL	120	PEDCO	GCS	
	BK							

TBE For Emergency Diesel Generator								
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Item	Description							
11.8	Ingress Protection	IP54	Confirmed	A	Confirmed	A	XX	C
11.9	Busbar System	3Ph+N+PE	Confirmed	A	Confirmed	A	Confirmed	A
11.10	Rated Busbar Current (A)	800	Confirmed	A	Confirmed	A	Confirmed	A
11.11	Busbar Material	Copper (Insulated With Heat Shrink)	Confirmed	A	Confirmed	A	Confirmed	A
11.12	Protection Functions (Embedded in ACB Protection Unit)	- Overload 49 - Phase over current 50/51 Earth fault 50N/51N	Confirmed	A	Confirmed	A	Confirmed	A
11.13	Protection Functions (Other Than ACB Protection Unit)	According to “BK-GCS-PEDCO-120-EL-SL-0002”	Confirmed	A	Confirmed	A	Please Send For Review	
11.14	Controllor Manufacturer / Model no.	By Vendor	Deep Sea 7320	A	Deep Sea 7320	A	Deep Sea	A
11.15	Indicators on Panel	- Gen. Voltages (Analogue) - Gen. Currents - Gen. Frequency (Analogue) - Battery charging ammeter - Power factor meter - Jacket water temperature - Lubricating oil temp. - Lubricating oil press. - Hours run meter - Watt meter - Watt-hour meter - VAR-hour meter VAR meter	Confirmed	A	Confirmed	A	All In Controller Deep Sea	A
11.16	Transducers (4~20mA Output)	- Generator Voltage Frequency	Confirmed	A	Confirmed	A	NO	N
11.17	Generator Neutral CT Manufacturer Rating & Class	Required for 51G protection Required for 64R protection By Vendor 51G: 800/5A, Cl. 5P10	Confirmed Confirmed	A A	Confirmed	A	NO	N
11.18	Earth Fault Protections Manufacturer Type Setting Range	Required BY Vendor Solid state By Vendor	Confirmed (BY DEEP SEA)	A	Confirmed	A	Later	C
11.19	Panel Accessories	Anti-Condensation Heater Panel Lighting Removable Gland Plate	Confirmed	A	Confirmed	A	Confirmed	A
11.20	Finish Color	RAL 7032	Confirmed	A	7035	A	Later	C
11.21	Cable entry	Bottom via Cable Gland	Confirmed	A	Confirmed	A	Confirmed	A



	<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 EMERGENCY DIESEL GENERATOR							شماره صفحه : 10 از 12
	نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	
	D00	0004	TB	EL	120	PEDCO	GCS	
	BK							

TBE For Emergency Diesel Generator								
MR	PMR For Emergency Diesel Generator (BK-GCS-PEDCO-120-EL-MR-0004)	Purchaser Requirement	Mah Niroom	Status	Sazand	Status	Hadid Sanat Pars Niroom	Status
Item	Description							
11.22	Cable Specification & Size From Generator to Local Panel: From Local Panel to LV switchgear:	CU/XLPE/AWA/PVC By Vendor 2x(1x300mm²) Phase 1 2x(1x300mm²) Phase 2 2x(1x300mm²) Phase 3 1x(1x3300mm²) Neutral	Confirmed	A	Later	C	Later	C
12. Switching Device								
12.1	Type of Switching Device	ACB	MCCB	N	Confirmed	A	MCB	N
12.2	Manufacturer	By Vendor	Schneider / Abb / Siemens	A	Schneider	A	Later	C
12.3	Type Designation	By Vendor	AFTER PO	A	As Manufacturer Standard	A	XX	N
12.4	Operating Mechanism	Motor Operated, Spring Charged, Stored Energy, Trip Free Mechanism	Confirmed	A	Confirmed	A	Confirmed	A
12.5	Number of Poles	4	Confirmed	A	Confirmed	A	Confirmed	A
12.6	Rated Current (A)	800	Confirmed	A	Confirmed	A	Confirmed	A
12.7	Rated Voltage (V)	690	Confirmed	A	As Manufacturer Standard	A	Confirmed	A
12.8	Standard	IEC	Confirmed	A	Confirmed	A	Confirmed	A
12.9	Rated Breaking Current	Not Less Than 35kA	Confirmed	A	Confirmed	A	Confirmed	A
12.10	Charging Motor Operating Voltage (V)	24 (Fed from diesel batteries)	Confirmed	A	Confirmed	A	Confirmed	A
12.11	Trip Unit	Electronic type	Confirmed	A	Confirmed	A	Confirmed	A
12.12	Trip Unit Functions	49, 50, 51, 50N, 51N	Confirmed	A	Confirmed	A	Confirmed	A
12.13	Trip Unit Model	By Vendor	Confirmed	A	As Manufacturer Standard	A	XX	N
13. Generator Accessories								
13.1	RTD (Pt100)	Yes (9 RTD's for S > 500kVA)	(7 RTD)	N	6 (2 Per Phase)	N	NO	N
13.2	Lifting Bolts	Yes	Confirmed	A	Confirmed	A	Confirmed	A
13.3	Earthing Bolt	Yes	Confirmed	A	Confirmed	A	Confirmed	A
13.4	Drain Plug	Yes	Confirmed	A	Confirmed	A	Confirmed	A

	<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 EMERGENCY DIESEL GENERATOR								شماره صفحه : 11 از 12
	نسخه	سریال	نوع مدرک	رشته	تجهیزات	صادر کننده	بسته کاری	پروژه	
	D00	0004	TB	EL	120	PEDCO	GCS	BK	

TBE For Emergency Diesel Generator								
MR	PMR For Emergency Diesel Generator (BK-GCS-PEDCO-120-EL-MR-0004)	Purchaser Requirement	Mah Niroom	Status	Sazand	Status	Hadid Sanat Pars Niroom	Status
Item	Description							
14. General								
14.1	Noise Level	Not More than 81dB @ No Load	With Canopy Or Diesel Room Confirmed	N	@ 1m = 103.6 db	N	85 db	N
14.2	Weight of Diesel Engine Without Oil and Water (Kg)	By Vendor	1550 Kg	A	Wet Weight : 1810 Kg	A	Later	C
14.3	Weight of Generator (Kg)	By Vendor	1200 Kg	A	1705 Kg	A	Later	C
14.4	Weight of Diesel Generator Skid (Kg)	By Vendor	750 Kg	A	-	A	Later	C
14.5	Overall Dimension of Diesel Generator Skid (W x D x H) (mm)	By Vendor	4000x1600x1750	A	3400 * 1400 * 2200	A	Later	C
14.6	Dimension of Control Panel (W x D x H) (mm)	By Vendor	600x800x300	A	-	A	Later	C

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

	<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 EMERGENCY DIESEL GENERATOR								شماره صفحه : 12 از 12
	نسخه	سریال	نوع مدرک	رشته	تجهیزات	صادرکننده	بسته کاری	پروژه	
	D00	0004	TB	EL	120	PEDCO	GCS	BK	

Conclusion Table:

Item	Equipment	Mah Niroom	Sazand	Hadid Sanat Pars Niroom
1	Diesel Generator	Acceptable	Acceptable	Acceptable