

Project Name: Binak Oilfield Development General

Purchaser: Hirgan Energy

Our Reference: R1402 P 107, Rev 00

شرکت رانین صنعت گستر

سازنده تابلو برق

M.V Switchgear UNISAFE

With ABB Circuit Breaker

up to 24 kV





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Technical Descriptions

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1. Unisafe description

These cubicles with withdrawable circuit-breakers for indoor installation are designed based on metal clad type with the bellow technical data:

Rated voltage	kV	12	17.5	24
Rated insulation voltage	kV	12	17.5	24
Test voltage at power frequency	kV 1min	28	38	50
Impulse withstand voltage	kV	75	95	125
Rated frequency	Hz	50-60	50-60	50-60
Rated short-time withstand current	kA 1s	50	50	25
Peak current	kA	125	125	63
Rated short-time withstand current	kA 3s	40	40	25
Peak current	kA	100	100	63
Internal arc withstand current	kA 1s kA 0.5s	40 50	40	25
Main busbar rated current	A	4000	4000	2500
Rated current of the branch connections	A	630 1250 1600 2000 2500 3150	630 1250 1600 2000 2500 3150	630 1250 1600 2000 -
Rated current of the branch connections with forced ventilation	A	3600 4000	3600 4000	2500 -

Unisafe is a medium voltage, metal-clad switchgear suitable for indoor installations. It is a modular apparatus made of aligned standard units. Metal sheets segregate each compartment and the energized components are air insulated.

All the startup, maintenance and service operations can be carried out from the front of the unit. The switchgear and the earthing switches are operated from the front with the door closed. The switchgear can be wall-mounted. The range of apparatus available for Unisafe ZS1 switchgear is the most complete on the market, including vacuum and gas circuit-breakers.

From power stations down to distribution substations, ABB provides a reliable, high quality solutions for products, systems and services.

As a single source partner, ABB is the world's largest and most complete supplier of switchgear and systems for electric power transmission and distribution applications.

ABB substations, cables, transformers, control systems and switchgear enable our customers to make efficient and effective use of electric power.

As a word-leading company in research, development and innovation, ABB is able to provide the most comprehensive and suitable range of solutions to meet the present and future needs of producers, distributors and users of electric power.

Medium voltage switchgear is one of the most important links in the electric distribution chain and ABB has developed the Unisafe switchgear with the aim of satisfying all requirements.



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Unisafe combines consolidated solutions and innovative components, based on ABB's leading-edge technology.

Unisafe is medium voltage metal-clad switchgear with a metal enclosure, suitable for indoor installations.

Metal partitions segregate the compartments from each other and the live parts are air-insulated. The switchgear is modular and this provides a coordinated approach that enables the ideal solution for each installation to be built up by placing standardised units side by side.

The metal sheets used on this structure of switchgears is 2.5 mm thickness.

In connection with LV part of compartment we can be used a sheet metal with thickness of 2 mm.

The switchgear is simple to configure and selection of the correct apparatus and instruments for specific applications does not require dedicated solutions.

The switchgear and the earthing switches are operated from the front with the door closed.

The switchgear can be wall-mounted. The range of apparatus available for Unisafe ZS1 switchgear is the most complete on the market, including vacuum and gas circuit-breakers. All this apparatus is interchangeable inside the same switchgear unit. This makes it possible to offer a single switchgearuser interface, with the same service and maintenance procedures and operations. The switchgear can be fitted with conventional (transformers and releases) or innovative (sensors and multi-purpose unit) measurement and protection components.

Apart from the traditional functional units, the Unisafe ZS1 switchgear is fitted with double buss bar systems. The use of these units allows extremely efficient use of space.

According to the IEC 62271-200, Unisafe switchgear can be defined as follows:

1. LSC-2B

The busbars, circuit-breaker and cable compartments are physically and electrically segregated. This is the category that defines the possibility of accessing the circuit-breaker compartment with the busbars and cables energized.

2. Partition Class

Switchgear providing continuous metallic partitions and shutters, intended to be earthed between opened accessible compartments and live parts of the main circuit. Metallic partitions and shutters or metallic parts of them shall be connected to the earthing point of the switchgear.

3. Interlock-controlled accessible compartment

Compartment containing high-voltage parts, intended to be opened for normal operation and/or normal maintenance, in which access is controlled by the integral design of the switchgear.

4. Tool-based accessible compartment

Compartment containing high-voltage parts, that may be opened, but not for normal operation and maintenance. Special procedures are required. Tools are necessary for opening.



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Busbar System

The main and branch bus bars are made of high conductivity 99.9% electrolytic copper from Mesbar Kaveh factory or Bahonar company.

Main bus bars located at the top of cubicles in a separate compartment. Cross section of bus bars is not less than the minimum values recommended by IEC standards for bare buses also all dreading will be applied.

PE & N buses are provided through all cubicles. All busbars will be painted with RED, YELLOW, BLUE color or will be clearly coded in the form of RED, YELLOW, BLUE or L1, L2, L3.

Differing requirements for the busbar system call for individual options. UNIGEAR offers modules for economical setup and high level of safety.

- Busbar position at top or middle
- Buss bar system for rated currents up to 630 A
- User-oriented gradation of rated currents
- Transport unit joints easily accessible from above
- Cross section of N buss bar and PE buss bar, the same size as the main buss bar.

Applications

- Utilities and Power Plants
- Power generation stations
- Transformer stations
- Main and auxiliary switchgear

Industry

- · Oil and gas pipelines
- steel & ion
- cooper
- Pulp and Paper
- Cement
- Textiles
- Chemicals
- Food
- Automotive
- Petrochemical
- Quarrying
- Metallurgy
- mills
- Mines

Transport

- Airports
- Ports
- Railways
- Underground transport

Infrastructure

- Shopping malls
- Hospitals
- Large infrastructure and civil works

Degrees of protection

The degrees of protection of the switchgear conform with IEC 60529 Standards.

Unisafe switchgear is normally supplied with the following standard degrees of protection:

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- IP4X for the enclosure.
- IP2X for the partition between compartments.

On request, the external housing can be supplied with a higher degree of protection; in this case please contact your ABB sales representative.

Color of the external surfaces

RAL7035 - light grey (front doors).

RAL7032- a pale brown color (front doors).

Other colors available on request.

With the release of the IEC 62271-200 standard, new definitions and classifications of Medium Voltage switchgear have been introduced.

One of the most significant changes is that classification of switchgear into metal-clad, compartmented and cubicle types has been abandoned.

The revision of switchgear classification rules has been based on the user's point of view, in particular on aspects like service and maintenance of the switchgear, according to the requirements and expectations for proper management, from installation to dismantling.

In this context, Loss of Service Continuity (LSC) has been selected as a fundamental parameter for the user.



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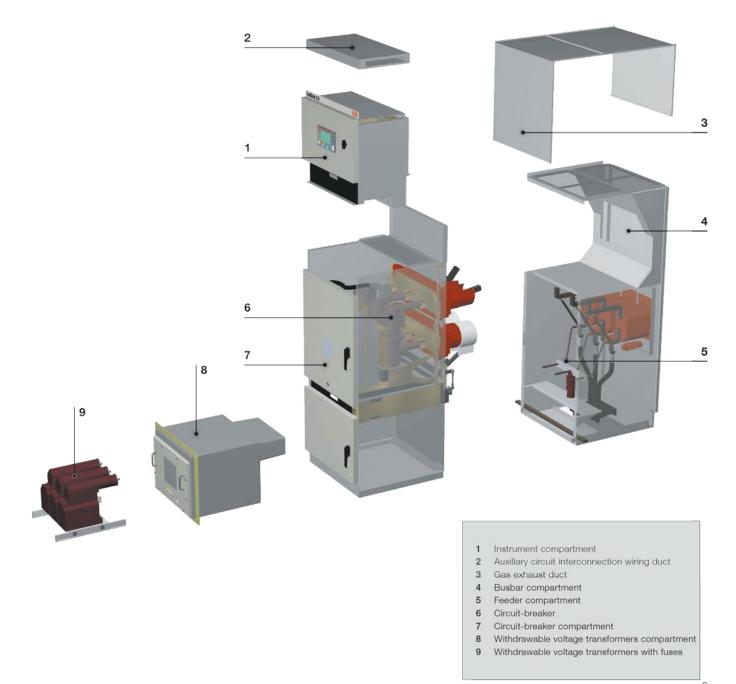
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2. Panel design



Each Unisafe switchgear consists of a single unit which can be equipped with a circuit-breaker, withdrawable fused device, off load disconnector, as well as with all the accessories available for conventional switchgear units.

The panel incorporates a compartment in its upper level to house the auxiliary instrumentation.

Units can be coupled together directly with double busbar units, with the possibility for further extension on both sides of the switchgear.

The switchgear does not require rear access for installation or maintenance.

All the service operations are carried out from the front.

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Option:
Application of overpressure sensors inside the panels

Basic level: auxiliary switches on the pressure release flaps Arc detection within 100ms plus direct CB trip (40-60ms)

3. Runin introduction

Runin Company is the result of a gathering of experts with experience in the fields of executive consulting, design and manufacture of electrical panels, organization and management of various industries and projects. The purpose of this organization is to provide engineering technical services in a wide range of design up to the implementation stage.

Technical and engineering department: This department is engaged in electrical engineering and automation services in industrial projects, design and implementation of energy management systems (PMS) and PDCS and electrical protection systems, design and implementation of electricity distribution and transmission projects.

Production facility: Runin panel factory in Yazd industrial city, with modern machinery and using years of experience under the supervision of experienced and specialized engineers, always tries to improve the quality of its products technically and in accordance with the latest international standards. This company holds the ISO 9001: 2008 quality management certificate from QAL UK.

The area of factory is about 6000 m2 that 4000 m2 of this allocated for assembling of switchgears. Runin Sanat Co. is able to manufacturing 1500 LV and 1000 MV switchgears annually.



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4. Metalworking machinery and equipment

Runin's cubicle manufacturing and production department is able to make all kinds of panels with the best quality by using advanced automatic machines. All stages of manufacturing metal parts of the panel are under the supervision and inspection of quality control and try to be made according to customer needs. The blacksmithing department of Runin Company is equipped with CNC machines as follows.

Punching CNC: AMADA and TRUMPF

Tru Laser CL3030: TRUMPF
 Press break CNC: HACO
 Sharing CNC: Inanlar
 Notching CNC: Indomach



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5. Painting

In the coloring section, the activity is divided into the following two categories: Washing and phosphating part Coloring Part in the washing part, first all the parts are lubricated with a degreasing solution and prepared for the washing and phosphating steps. After fiber removal, all the prepared parts are installed on the relevant fence and during a four-step process and immersion, these parts are "zinc" phosphate to a thickness of about 12 microns. Then they are placed inside the cyclone and painted as electrostatic powder and finally baked in the oven.

Due to the importance of color in the electrical panel, Runin company has tested its painted sample in the laboratory, and the results of all tests have been successful.

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6. Quality Control

In the quality control unit, in addition to precise control during the process, the panel is also tested and delivered to the customer. According to the type of panel and in accordance with the current world standards, the testing process is performed in the presence of the customer and the relevant test sheets are completed. The quality control unit is equipped with state-of-the-art devices to control during the process and perform various tests on the production board, and all this equipment are calibrated at regular intervals by the competent organs. This equipment includes: 75 kV pot test machine, low pressure pot test machine, 5000 volt Meager machine, thickness gauge machine, current injection machine and etc.





7. Technical Office

Runin Company's technical office, relying on efficient personnel as well as powerful software, is responsible for producing construction drawings, including mechanical drawings and electrical drawings. In this section, and before the project is announced for construction, complete plans are prepared for the customer's approval, as well as the insertion of their requested points, and after final approval, the construction is announced. Finally, this office is responsible for preparing the Finial Book and sending the ticket maps to the customer.

Technical office software:

- Solid Work
- Auto Cad
- ETAP Power Station
- Step7 V5.5
- Eplan Electric P8
- Dialux 4.12
- MS Project
- Circuit Maker



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8. Assembly Workshop

Panel assembly part from two main parts:

- Mechanical assembly, which includes the assembly of parts made by the manufacturing and production of skeletons, and mechanical assembly of electrical parts, including switches, contactors, etc.
- Electrical assembly, which includes wiring of power circuits, wiring of control circuits, busbars and additional operations. Composed.

All activities in this section are under the supervision of quality control inspectors and the start of any new process requires quality control approval on the previous process. All the documents in this section, in addition to complying with current world standards, have already been coordinated with the customer so that the customer's technical opinions can be applied in the assembly.

Quality control in this section, in addition to monitoring the proper execution of work, also monitors the values. These values include the size of the busbars, the allowable insulation distances, the size of the power and control circuit wires, the size of the output terminals, and so on.

9. MV Products

Medium voltage switchgears withdrawable:

- UNISAFE type /ABB
- UNIGEAR type / ABB
- SIMOPRIME type / Siemens
- 8BK20 type / Siemens
- 8BK80 type / Siemens
- GIS type / Siemens



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10. Standards

#	IEC-Standards	STANDARD APPLICATION DESCRIPTION
1	IEC 60038	Standard Voltage
2	IEC 60059	Current rating
3	IEC 60112	Method for determining the comparative and proof
4	IEC 60044-1	Instrument transformers-part1: current transformers
5	IEC 60044-1	Instrument Transformer
6	IEC 60051	Direct acting indicating analog electrical measuring instruments
7	IEC 60186	Voltage Transformer
8	IEC 60255	Electrical Relays
9	IEC 60269	Low Voltage Fuses
10	IEC 60364	Electrical Installation of Building
11	IEC 60529	Degrees of protection provided by enclosures
12	IEC 60664	Insulation coordination with low voltage system
13	IEC 61000	Electromagnetic compatibility
14	IEC 60445	Identification of equipment terminals and terminations of certain designated conductors including general rules for an alphanumeric system
15	IEC 60521	Class 0.5, 1 and 2 alternating current watt-hour meters
16	IEC 60831	Power Factor Correction Capacitor.



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11. List of Origin Manufacturers of MV Switchgears

The following table is the list of acceptable manufacturers in RUNIN but for inform of the manufacturers of proposed equipment please refer to MTO.

this brand there isn't in oil AVL.

Item	Equipment Description	Manufacturer		
1	Circuit Breakers (VCB/GCB)	ABB/Hyundai/Fulmen/Pars Switch		
2	Load Break Switch (LBS)	ABB/Hyundai/Fulmen/Pars Switch		
3	Vacuum Contactor (VC)	ABB/Hyundai/Fulmen/Pars Switch		
4	Resin Cast Current Transformer	Mag Electric/Pars Shar/Electro Pejvak		
5	Ring Type Current Transformer	Mag Electric/Pars Shar/Electro Pejvak/Novin Harris		
6	Resin Cast Voltage Transformer	Mag Electric/Pars Shar/Electro Pejvak		
7	Multifunction Protection relay	Siemens/Schneider/ Fanox/PNC		
8	discrepancy	Cewe/Fuji		
9	Semaphore	Cewe/Fuji		
10	Aux. Relay	Finder/Mouller		
11	Timer	Finder/Omron/Shiva amvaj		
12	Lockout and Trip Relay	Lovato/Fanox Siemens/Schneider/ Fanox/PNC		
13	Selector Switch	Raad/TRS /Schneider/Electro Kaveh		
14	Miniature Circuit Breaker(MCB)	Schrack/Schneider/LS/Hyundai		
15	Test Block	Cewe/Fuji/Hamian Fan		
16	Alarm Window	Mabna Niroo		
17	Transducer	Ziegler/Rael/Iskra		
18	Analog Metering Devices	Ziegler/Rael/BEW		
19	Digital Metering Device	Schneider/Socomec/Shiva amvaj		
20	Push Button	Raad/Schneider		
21	Signaling Lamp	Raad/Schneider		
22	Terminal	Raad		
23	Disconnectors Switch with Fuse (control)	ETI/Raad		
24	Heater	Koomesh		
25	Cable & Wire	Shirkooh /Yazd / Setareh		
26	Duct & Rail	Raad/Alborz		
27	Micro Switch	Sammit/TRS		
28	Lighting	Max Light/Mahnoor		
29	Thermostat	Sammit/Koomesh		
30	Fan	Sammit		



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12. Scope of Work

Item	Main	Option	Description	Remark
1	*		Design & Engineering & Manufacturing of Switchgears(BPP)	Included
2	*		Factory Acceptance Test & Inspection (FAT)	Included
3		*	Site Acceptance Test & Inspection (SAT)	
4		*	Seaworthy Packing (Wooden)	
5		*	Shipment	
6		*	Site Supervision (Per Day-8 h by local expert) (Man / Day)	
8		*	Training of client personnel at vendor shop or site (3-Man)	
9	*		Final Vendor Data Book Included	
10		*	Relay Coordination & Setting Schedule	
11		*	Cable Gland	
12		*	Sealing End	
13		*	Bus Duct or Bus Bridge	

^{*}BPP: (Bubble plastic Packing)



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13. Deviation & Notes List

There were some conflicts between documents so please refer to comments on sheets of MTO and technical observation in attached file No. 1.

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14. Existing Document

The subject of proposal is, design, and manufacture, materials & Factory testing of Switchgears according to following description:

#	Document Name	Document Number	Rev	
1	Single Line Diagram	07-BK-GCS-PEDCO-120-	D04	
1		EL-SL-0003	D04	
2	MR FOR Existent MV Switchgear Expansion & RCP	BK-GCS-PEDCO-120-EL-	D01	
	MK OK Existent MV Switchgear Expansion & RCF	MR-0003	D01	
3	Wiring Diagram RCP	14-BK-GCS-PEDCO-120-	D01	
3	Willing Diagram Ker	EL-DG-0005	D01	
4	Data Sheets For Capacitor Bank	12-BK-GCS-PEDCO-120-		
4	Data Sheets for Capacitor Dank	EL-DT-0007	D02	
5	Data Sheets For Remote Control Panel	10-BK-GCS-PEDCO-120-		
	Data Sheets for Remote Control Panel	EL-DT-0015	D02	
6	Data Sheets For Expansion Of Mv Switchgear	09-BK-GCS-PEDCO-120-		
	Data Sheets For Expansion Of MV Switchgear	EL-DT-0004	D03	
7	Floatrical Typical Schomatic Diagram	08-BK-GCS-PEDCO-120-		
'	Electrical Typical Schematic Diagram	EL-DG-0001	D06	



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15. List of Switchgears

Design temperature is 52. all the equipment sizing shall be modify according to this temperature.

#	Switchgear Name	Panel Type	Construction	Panel Qty.	SWG Qty.	Total Panel
1	3.3 KV MV SWG	UNISAFE	Withdrawable	2	1	2
2	11KV MV Switchgear	UNISAFE	Withdrawable	10	1	10
3	Cap. Bank 600KVAR		FIXED	1	3	1

360 KVAR according to Calculation
Attached with PMR.
vendor shall calculate & confirm the
purchaser calculation & based on required
KVAR, shall proceed to proved capacitor
bank.

It shall be 3 instead of 1.



Prepared by :A.Dehghani

Technical Proposal

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16. List of Spare Part and Accessories

MV SWITCHGEAR

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+98-9132517243 <u>www.runinsanat.com</u> / Email : Info@Runinsanat.com



MV SPARE RART R1402 P 107 MV SWG

#	Description	QTY
1	2 YEARS SPARE PART	1
2	COMMISSIONING	1
	FEEDER SUM.	2



LIST OF EQUIPMENTS (MTO)

	SWG NAME:	MV SWG
	PANEL NAME:	2 YEARS SPARE PART
	DWG No.	•••
PROJECT No:	DATE:	30-Oct-23

BINAK OILFIELD DEVELOPMENT GENERAL $^{R140}_{2 \text{ P}}$ 107

PROJECT NAME

QTY

1

2 YEARS SPARE PART

ITEM	EQUIPMENT DESCRIPTION	FEEDER RATING	QTY	MANUFACTURER ORIGIN	ТҮРЕ	
1	TRIP COIL FOR VCB, 110VDC		2	PARS SWITCH		
2	CLOSE COIL FOR VCB, 110VDC		2	PARS SWITCH		
3	MOTOR CHARGE FOR VCB, 110VDC		2	PARS SWITCH	K	
4	ANTI-PUMPING FOR VCB		2	PARS SWITCH		
5	VOLTAGE & CURRENT PROTECTION RELAY (FOR INCOMINGS & BUS TIES)		0	N-A		
6	AUX. RELAY		30	WEIDMULLER	if you use this	_
7	MV HRC FUSE FOR MOTOR/TRANSFORMER		0	N-A	brand, you sha	
8	MV HRC FUSE FOR VOLTAGE TRANSFORMR (PT)		3	AEG	submit type tes for switchgear.	
9	MCB,2P,DC	4A	9	NOARK/ISKRA	ioi switchigear.	
9	MCB,3P,AC	6A	4	NOARK/ISKRA		
10	LV FUSE (DISCONNECTOR SWITCH), 2P	32A	5	ETI/RAAD		
11	CYLIDRICAL FUSE	2-6A	11	ETI/RAAD		
12	LOCKOUT RELAY (86)		2	SIEMENS		
13	SIGNAL LAMP		14	SCHNEIDER		
	SALES ENGINE	ERING DEPT.				
COMMENT	Prepared by:		C	hecked by:		



LIST OF EQUIPMENTS (MTO)

SWG NAME:	MV SWG
PANEL NAME:	COMMISSIONING
DWG No.	•••

		DWG No.	•••
PROJECT NAME	PROJECT No:	DATE:	30-Oct-23
BINAK OILFIELD DEVELOPMENT GENERAL	R140 2 P 107	QTY	1

COMMISSIONING

00.	MIMISSIONING				
ITEM	EQUIPMENT DESCRIPTION	FEEDER RATING	QTY	MANUFACTURER ORIGIN	ТҮРЕ
1	LV FUSE (DISCONNECTOR SWITCH), 2P	32A	5	ETI/RAAD	
2	CYLIDRICAL FUSE	2-6A	11	ETI/RAAD	
3	SIGNAL LAMP		14	SCHNEIDER	
	SALES ENGINE	ERING DEPT.			
	Prepared by:			Checked by:	
COMMENT					



Prepared by :A.Dehghani

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MV SPARE RART R1402 P 107 MV Cap. Bank

#	Description	QTY
1	2 YEARS SPARE PART	1
2	COMMISSIONING	1
	FEEDER SUM.	2



LIST OF EQUIPMENTS (MTO)

SWG NAME:	MV Cap. Bank
PANEL NAME:	2 YEARS SPARE PART
DWG No.	•••
DATE:	30-Oct-23
QTY	1

PROJECT NAME	PROJECT No:	DATE:	30-Oct
BINAK OILFIELD DEVELOPMENT GENERAL	R140 2 P 107	QTY	

2 YEARS SPARE PART

ITEM	EQUIPMENT DESCRIPTION	FEEDER RATING	QTY	MANUFACTURER ORIGIN	ТҮРЕ
1	TRIP COIL FOR VCB/VC		0	N-A	
2	CLOSE COIL FOR VCB/VC		0	N-A	
3	MOTOR CHARGE FOR VCB/VC		0	N-A	
4	POWER FACTOR REGULATOR		0	N-A	
5	AUX. RELAY		6	WEIDMULLER	
6	ISOLATING TRANSFORMER		0	N-A	
7	LV CONTACTOR		0	N-A	
8	MCB,2P,AC	4A	3	NOARK/ISKRA	
0	MCB,3P,AC	6A	1	NOARK/ISKRA	
9	LV FUSE (DISCONNECTOR SWITCH), 2P	32A	3	ETI/RAAD	
10	CYLIDRICAL FUSE	2-6A	5	ETI/RAAD	
11	SIGNAL LAMP		5	SCHNEIDER	
12	FLUORESCENT LAMP		1	IRAN	
	SALES ENGINE	ERING DEPT.			
	Prepared by:		(Checked by:	
COMMENT					



LIST OF EQUIPMENTS (MTO)

SWG NAME:	MV Cap. Bank
PANEL NAME:	COMMISSIONING
DWG No.	•••

		Dirig no.	•
PROJECT NAME	PROJECT No:	DATE:	30-Oct-2
BINAK OILFIELD DEVELOPMENT GENERAL	R140 2 P 107	QTY	1

COMMISSIONING

	COMMISSIONING					
ITEM	EQUIPMENT DESCRIPTION	FEEDER RATING	QTY	MANUFACTURER ORIGIN	ТҮРЕ	
1	LV FUSE (DISCONNECTOR SWITCH), 2P		1	ETI/RAAD		
2	CYLIDRICAL FUSE	2-6A	2	ETI/RAAD		
3	SIGNAL LAMP		5	SCHNEIDER		
	SALES ENGINE	ERING DEPT.				
	Prepared by:			Checked by:		
COMMENT						



Project Name: Binak Oilfield Development General

Purchaser: Hirgan Energy

Our Reference: R1402 P 107, Rev 00

شرکت رانین صنعت گستر

سازنده تابلو برق

• LV RCP

Runin Sanat Gostar Co. Tel: +98-21- 88679705, 06 +98-9132517243

October 30, 2023



LV SPARE RART R1402 P 107 LV RCP

#	Description	QTY
1	2 YEARS SPARE PART	1
2	COMMISSIONING	1
	FEEDER SUM.	2



LIST OF EQUIPMENTS (MTO)

	SWG NAME:	LV RCP
	PANEL NAME:	2 YEARS SPARE PART
	DWG No.	
PROJECT No:	DATE:	30-Oct-23

PROJECT NAME BINAK OILFIELD DEVELOPMENT GENERAL R140 107

QTY

1

2 YEARS SPARE PART

	LAKS SPAKE PAKI				
ITEM	EQUIPMENT DESCRIPTION	FEEDER RATING	QTY	MANUFACTURER ORIGIN	ТҮРЕ
1	LIGHTING		1	MAHNOOR	
2	SPACE HEAHER		1	KOOMESH	
3	DISCONNECTOR SWITCH, 2POLES, WITH FUSE	32/4A	2	RAAD	
4	LAMP SIGNAL		10	Schneider Electric	
5	MICRO SWITCH		1	IRAN	
6	5 SELECTOR SWITCH		0	N-A	
7	7 PUSH BUTTON		2	Schneider Electric	
8	ALARM ANNUNCIATOR		0	N-A	
9	AUX. RELAY		0	N-A	
	SALES ENGINEE	RING DEPT.			
	Prepared by:		C	hecked by:	
COMMENT					



LIST OF EQUIPMENTS (MTO)

SWG NAME:	LV RCP
PANEL NAME:	COMMISSIONING

PROJECT NAME	PROJECT No:	DATE:	30-Oct-

BINAK OILFIELD DEVELOPMENT GENERAL $^{R140}_{\ 2\ P}$ 107

QTY

1

COMMISSIONING

COMMISSIONING							
ITEM	EQUIPMENT DESCRIPTION	FEEDER RATING	QTY	MANUFACTURER ORIGIN	ТҮРЕ		
1	LIGHTING		1	MAHNOOR			
2	DISCONNECTOR SWITCH, 2POLES, WITH FUSE	32/4A	2	RAAD			
3	LAMP SIGNAL		10	Schneider Electric			
4	AUX. RELAY		0	N-A			
	SALES ENGINEERING DEPT.						
	Prepared by: Checked by:						
COMMENT							



Prepared by :A.Dehghani

Technical Proposal

Project Name: Binak Oilfield Development General

Purchaser: Hirgan Energy

Our Reference: R1402 P 107, Rev 00

شرکت رانین صنعت گستر

سازنده تابلو برق

17. Technical offer for mv switchgear (11KV)

• Technical Data

Runin Sanat Gostar Co. Tel: +98-21- 88679705, 06 +98-9132517243

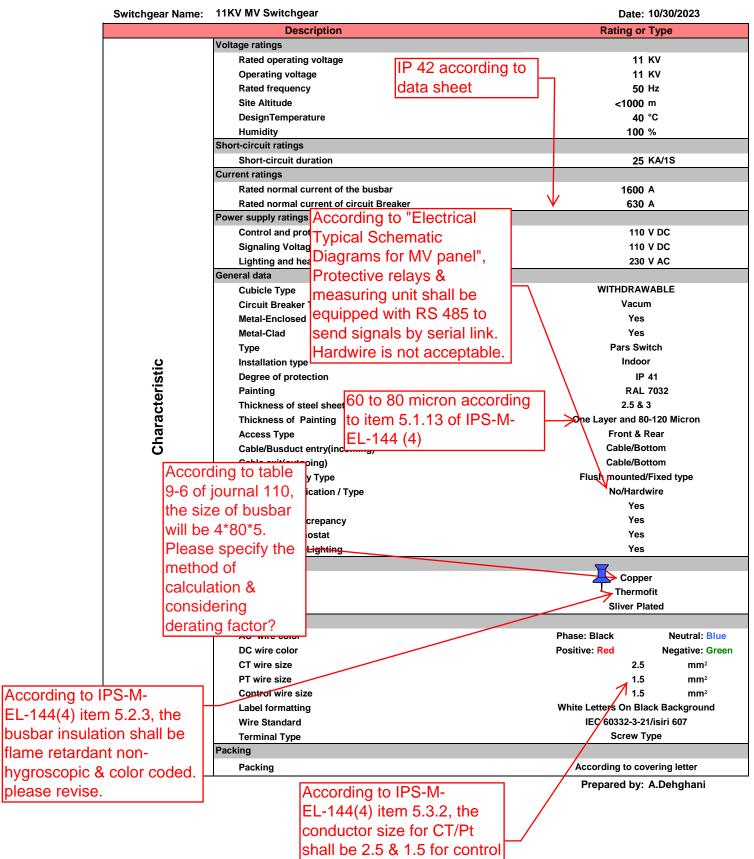
www.runinsanat.com / Email : Info@Runinsanat.com



Technical Data

Project Name: BINAK OILFIELD DEVELOPMENT GENERAL REV: 0.0

Drawing No. BK-GCS-PEDCO-120-EL-SL-0003 R1402 P 107



& signal. please check.



Prepared by :A.Dehghani

Technical Proposal

Project Name: Binak Oilfield Development General

Purchaser: Hirgan Energy

Our Reference: R1402 P 107, Rev 00

شرکت رانین صنعت گستر

سازنده تابلو برق

• List of equipment (11KV)

Runin Sanat Gostar Co. Tel: +98-21- 88679705, 06

+98-9132517243 <u>www.runinsanat.com</u> / Email : Info@Runinsanat.com



LIST OF FEEDERS R1402 P 107

ITEM	Description	QTY
1	OUTGOING TYPE C2	3
2	OUTGOING TYPE C3	4
3	OUTGOING TYPE C5	1
4	ADAPTOR	2
	TOTAL	10



LIST OF EQUIP India & east of Europe is not

List of equipment shall be according to AVL. please check. China & India & east of Europe is not acceptable.

SWG NAME: 11KV MV Switchgear FEEDER NAME: OUTGOING TYPE C2

DWG No. BK-GCS-PEDCO-120-EL-SL-

PROJECT NAME PROJECT No: DATE: 30-Oct-23

BINAK OILFIELD DEVELOPMENT GENERAL R1402 P 107

QTY

3

0.77	for this brand of breker, type	e test for			
	switchgear shall be submitt		K.		
ITEM	EQUIPMENT DESCRIPTION	RATING	QTY	MANUFACTURER ORIGIN	ТҮРЕ
1	VACUUM CIRCUIT BREAKER, WITHDRAWABLE TYPE, 12KV,25KA/1Sec WITH MOTOR CHARGE 110VDC, OPENING COIL, CLOSING COIL, AUX. CONTACT	630A	1	PARS SWITCH	VP4E
2	CAPACITIVE INDICATOR		1	JEBAL ELECTRIC	
3	RESIN CURRENT TRANSFORMER, 2CORE, X=75A,100A	X/1/1A	3	PARS SHAR	CL: 1, 15VA CL: 5P20, 15VA
4	CORE BALANCE TRANSFORMER	60/1A	1	PARS SHAR	CL:1, 2.5VA
5	PORTECTION RELAY ANSI CODE (50,51,51N,50G,74TCS) WITH RS485 SERIAL LINK		1	SCHNEIDER	P3U20
6	LOCKOUT RELAY (86)		1	SIEMENS	7PA2331-1
7	TRIP RELAY (94)		1	SIEMENS	7PA2732-0AA00-1
8	CURRENT TRANSDUCER		1	ZIEGLER	E13
9	VOLTAGE TRANSDUCER Please consider	r	1	ZIEGLER	E13
10	POWER TRANSDUCER CL.1 for ammet	er.	1	ZIEGLER	PROP
11	MULTI POWER METER WITH RS485		1	SCHNEIDER	PM2220
12	AMMETR ANALOG,SIZE 96*96, CL.1.5		3	BEW	
13	TEST BOX		4	FUJI	
14	INDICATOR POSITION (SEMAPHORE)		1	CEWE	PI39
15	SEMAPHORE FOR TEST OR SERVICE		1	CEWE	PI36
16	DISCREPANCY SWITCH		1	COMELECTRIC	DR115
17	CONTROL EQUIPMENT (MCB, P.B ,SIGNAL LAMP, TERMINAL, AUX. RELAY,)		1	CONTROL EQUIPMENT	
18	CUBICLE: METAL ENCLOSED EARTHING SWITCH	11KV, 25KA/1Sec	1	RUNIN SANAT	UNISAFE
	SALES ENGINE	ERING DEPT.	1	l	
	Prepared by: A.Dehghani Checked by:				
H	86T=94				
COMMENT					
MIN					
S					



LIST OF EQUIPMENTS (MTO)

SWG NAME: 11KV MV Switchgear

FEEDER NAME: OUTGOING TYPE C3

BK-GCS-PEDCO-120-EL-SL-DWG No.

0003

BINAK OILFIELD DEVELOPMENT **GENERAL**

PROJECT NAME

R1402 P 107

PROJECT No:

QTY

DATE:

30-Oct-23

OUTGOING TYPE C3

ITEM	EQUIPMENT DESCRIPTION	RATING	QTY	MANUFACTURER ORIGIN	ТҮРЕ
1	VACUUM CIRCUIT BREAKER, WITHDRAWABLE TYPE, 12KV,25KA/1Sec WITH MOTOR CHARGE 110VDC, OPENING COIL, CLOSING COIL, AUX. CONTACT	630A	1	PARS SWITCH	VP4E
2	CAPACITIVE INDICATOR		1	JEBAL ELECTRIC	
3	VOLTAGE TRANSFORMR, 3CORE (11/ $\sqrt{3}$)/(0.1/ $\sqrt{3}$), (11/ $\sqrt{3}$)/(0.1/ $\sqrt{3}$), (11/ $\sqrt{3}$)/(0.1/3)KV		3	PARS SHAR	CL1: 3P, 25VA CL2: 3P, 25VA
4	MV HRC FUSE FOR SWITCH VOLTAGE TRANSFORMR	6A	3	AEG	
5	RESIN CURRENT TRANSFORMER, 3CORE	100/1/1/1A	3	PARS SHAR	CL: 1, 15VA CL: 5P20, 15VA CL: X
6	CORE BALANCE TRANSFORMER	60/1A	1	PARS SHAR	CL:1, 2.5VA
7	PORTECTION RELAY ANSI CODE (50,51,50G,51G,66,51LR,74TCS ,27,46,49,87M,48,49T,50BF) WITH RS485 SERIAL LINK		1	SCHNEIDER	P3M32
8	LOCKOUT RELAY (86) Please conside	r	1	SIEMENS	7PA2331-1
9	CL.1 for ammet		1	ZIEGLER	E13
10	TEST BOX		5	FUJI	
11	AMMETR ANALOG,SIZE 96*96, CL.1.5		1	BEW	
12	SURGE ARRESTER		3	PARS ARRESTER	PAJ
13	INDICATOR POSITION (SEMAPHORE)		1	CEWE	PI39
14	SEMAPHORE FOR TEST OR SERVICE		1	CEWE	PI36
15	DISCREPANCY		1	COMELECTRIC	DR115
16	CONTROL EQUIPMENT (MCB, P.B ,SIGNAL LAMP, TERMINAL, AUX. RELAY,)		1	CONTROL EQUIPMENT	
17	CUBICLE: METAL ENCLOSED EARTHING SWITCH	11KV, 25KA/1Sec	1	RUNIN SANAT	UNISAFE
	SALES ENGINE	ERING DEPT.			
Prepared by: M.Golmohammadi Checked by:					
COMMENT					



LIST OF EQUIPMENTS (MTO)

SWG NAME: 11KV MV Switchgear FEEDER NAME: **OUTGOING TYPE C5**

BK-GCS-PEDCO-120-EL-SL-DWG No.

PROJECT NAME PROJECT No: DATE: 30-Oct-23

BINAK OILFIELD DEVELOPMENT GENERAL R1402 P 107

QTY

1

OU	TGOING TYPE C5				
ITEM	EQUIPMENT DESCRIPTION	RATING	QTY	MANUFACTURER ORIGIN	ТҮРЕ
1	VACUUM CIRCUIT BREAKER, WITHDRAWABLE TYPE, 12KV,25KA/1Sec WITH MOTOR CHARGE 110VDC, OPENING COIL, CLOSING COIL, AUX. CONTACT	630A	1	PARS SWITCH	VP4E
2	CAPACITIVE INDICATOR		1	JEBAL ELECTRIC	
3	RESIN CURRENT TRANSFORMER, 2CORE	75/1/1A	3	PARS SHAR	CL: 1, 15VA CL: 5P20, 15VA
4	CORE BALANCE TRANSFORMER	60/1A	1	PARS SHAR	CL:1, 2.5VA
5	PORTECTION RELAY ANSI CODE (50,51,51N,50G,74TCS,64REF) WITH RS485 SERIAL LINK		1	SCHNEIDER	P3U20
6	LOCKOUT RELAY (86)		1	SIEMENS	7PA2331-1
7	TRIP RELAY (94)		1	SIEMENS	7PA2732-0AA00-1
8	CURRENT TRANSDUCER		1	ZIEGLER	E13
9	VOLTAGE TRANSDUCER Please conside	r	1	ZIEGLER	E13
10	POWER TRANSDUCER CL.1 for ammet	er.	1	ZIEGLER	PROP
11	MULTI POWER METER WITH RS485		1	SCHNEIDER	PM2220
12	AMMETR ANALOG,SIZE 96*96, CL.1.5		3	BEW	
13	TEST BOX		5	FUJI	
14	INDICATOR POSITION (SEMAPHORE)		1	CEWE	PI39
15	SEMAPHORE FOR TEST OR SERVICE		1	CEWE	PI36
16	DISCREPANCY SWITCH		1	COMELECTRIC	DR115
17	CONTROL EQUIPMENT (MCB, P.B ,SIGNAL LAMP, TERMINAL, AUX. RELAY,)		1	CONTROL EQUIPMENT	
18	CUBICLE: METAL ENCLOSED EARTHING SWITCH	11KV, 25KA/1Sec	1	RUNIN SANAT	UNISAFE
	SALES ENGINE	ERING DEPT.	-	•	
	Prepared by: A.Dehghani			Checked by:	
Ţ	86T=94				
COMMENT					
M					
)					



LIST OF EQUIPMENTS (MTO)

PROJECT NAME

SWG NAME: 11KV MV Switchgear

FEEDER NAME: ADAPTOR

BK-GCS-PEDCO-120-EL-SL-

BINAK OILFIELD DEVELOPMENT GENERAL R1402 P 107

QTY

2.

ADAPTOR

AD	ADAPTOR					
ITEM	EQUIPMENT DESCRIPTION	RATING	QTY	MANUFACTURER ORIGIN	ТҮРЕ	
1	CONTROL EQUIPMENT (MCB, P.B ,SIGNAL LAMP, TERMINAL, AUX. RELAY,)		1	CONTROL EQUIPMENT		
2	CUBICLE: METAL ENCLOSED	11KV, 25KA/1Sec	1	RUNIN SANAT	UNISAFE	
	SALES ENGINE	ERING DEPT.				
	Prepared by: M.Golmohammadi			Checked by: M.Eslami		
COMMENT						



Prepared by :A.Dehghani

Technical Proposal

Project Name: Binak Oilfield Development General

Purchaser: Hirgan Energy

Our Reference: R1402 P 107, Rev 00

شرکت رانین صنعت گستر

سازنده تابلو برق

18. Technical offer for mv switchgear (3.3kv)

• Technical Data

Runin Sanat Gostar Co. Tel: +98-21- 88679705, 06 +98-9132517243

www.runinsanat.com / Email : Info@Runinsanat.com



Technical Data

Project Name: BINAK OILFIELD DEVELOPMENT GENERAL REV: 0.0

Drawing No. BK-GCS-PEDCO-120-EL-SL-0003 R1402 P 107

Switchgear Name: 3.3KV MV Switchgear Date: 10/30/2023

S	witchgear Name:	3.3KV MV Switchgear	Date: 10/30/2023		
		Description	Rating or Type		
		Voltage ratings			
		Rated operating voltage	3.3 KV		
		Operating voltage	3.3 KV		
		Rated frequency	50 Hz		
		Site Altitude	<1000 m		
		DesignTemperature	40 °C		
		Humidity	100 %		
		Short-circuit ratings	100 //		
		Short-circuit duration	25 KA/1S		
		Current ratings	23 KA/13		
			200 A		
		Rated normal current of the busbar	630 A		
		Rated normal current of circuit Breaker	630 A		
		Power supply ratings (Aux Voltage)			
		Control and protection	110 V DC		
		Signaling Voltage	110 V DC		
		Lighting and heaters ,	230 V AC		
		General data			
		Cubicle Type	WITHDRAWABLE		
		Circuit Breaker Type	Vacuum		
		Metal-Enclosed	Yes		
		Metal-Clad	Yes		
		Туре	Pars Switch		
	O	Installation type	Indoor		
	Characteristic	Degree of protection	IP 41		
	<u>.s</u>	Painting	RAL 7032		
	<u>ā</u>		2.5 & 3		
	ည်	Thickness of steel sheet (frame)			
	<u></u>	Thickness of Painting	One Layer and 80-120 Micron		
	<u>~</u>	Access Type	Front & Rear		
	<u> </u>	Cable/Busduct entry(incoming)	Cable/Bottom		
According to "El	ectrical	Cable exit(outgoing)	Cable/Bottom		
Typical Schema	_	Protection Relay Type	Flush mounted/Fixed type		
• •		Relay Communication / Type	Yes/Modbus		
Diagrams for M\	√ panel",	Mimic Diagram	Yes		
Protective relays	. k	Semaphore/Discrepancy	Yes		
•	_	Heater & Thermostat	Yes		
measuring unit s	shall be	Micro switch & Lighting	Yes		
equipped with R	S 485 to	Busbar			
		Material	Copper		
send signals by	I	Insulation	>> Thermofit		
Hardwire is not a	acceptable.	Coating	Sliver Plated		
		LV Compartment			
		AC wire color	Phase: Black Neutral: Blue		
A	- 4- IDO 14	wire color	Positive: Red Negative: Green		
	g to IPS-M-	wire size	2.5 mm ²		
EL-144(4) item 5.2.3, t	the wire size	1.5 mm ²		
`	sulation shall	WII C SIZC	1.5 mm ²		
flame reta	ardant non-	el formatting	White Letters On Black Background		
hydrosco	pic & color co	e Standard	IEC 60332-3-21/isiri 607		
	•	minal Type	Screw Type		
please re	vise.				
		Packing	According to covering letter		
			Prepared by: A.Dehghani		
			,,		

According to IPS-M-EL-144(4) item 5.3.2, the conductor size for CT/Pt shall be 2.5 & 1.5 for control & signal. please check.



Prepared by :A.Dehghani

Technical Proposal

Project Name: Binak Oilfield Development General

Purchaser: Hirgan Energy

Our Reference: R1402 P 107, Rev 00

شركت رانين صنعت گستر

سازنده تابلو برق

• List of equipment (3.3KV)

Runin Sanat Gostar Co. Tel: +98-21- 88679705, 06

+98-9132517243 <u>www.runinsanat.com</u> / Email : Info@Runinsanat.com



LIST OF FEEDERS R1402 P 107

ITEM	Description	QTY
1	OUTGOING TYPE C6	1
2	RISER	1
	TOTAL	2



LIST OF EQUIPMENTS (MTO)

SWG NAME: 3.3KV MV Switchgear

FEEDER NAME: OUTGOING TYPE C6

DWG No.

BK-GCS-PEDCO-120-EL-SL0003

1

PROJECT NAME PROJECT No: DATE: 30-Oct-23

BINAK OILFIELD DEVELOPMENT GENERAL

R1402 P 107

QTY

OUTGOING TYPE C6

ITEM	EQUIPMENT DESCRIPTION	RATING	QTY	MANUFACTURER ORIGIN	ТҮРЕ
1	VACUUM CIRCUIT BREAKER, WITHDRAWABLE TYPE, 12KV,25KA/1Sec WITH MOTOR CHARGE 110VDC, OPENING COIL, CLOSING COIL, AUX. CONTACT	630A	1	PARS SWITCH	VP4E
2	CAPACITIVE INDICATOR $\sqrt{3}$	$\frac{3.3}{\sqrt{3}}$ $\frac{3.3}{\sqrt{3}}$	1	JEBAL ELECTRIC	
3	VOLTAGE TRANSFORMR, 3CORE (3.3\3\7\0.1\5\3\), (11\5\3\), (11\5\3\), (11\5\3\), (11\5\3\)	$\begin{array}{c c} .11 & \hline{0.11} \\ .73 & \hline{11} & \hline{0.11} \\ 0.11 & \hline{0.11} \end{array}$	3	PARS SHAR	CL1: 3P, 25VA CL2: 3P, 25VA
4		$\sqrt{3}$ $\sqrt{3}$ A	3	AEG	
5	RESIN CURRENT TRANSFORMER, 2 CORE The voltage on	100/1/1A	3	PARS SHAR	CL: 1, 15VA CL: 5P20, 15VA
6	core balance transformer is 3.3 KV.	please //1A	1	PARS SHAR	CL:1, 2.5VA
7	PORTECTION RELAY ANSI CODE (50,51,50G, $11/\sqrt{3}$.	age of	1	SCHNEIDER	P3U30
8	LOCKOUT RELAY (86)	PT	1 Clas	SIEMENS S shall be CL	7PA2331-1
9	TRIP RELAY (94)	<u> </u>	1	SIEMENS	7PA2732-0AA00-1
10	CURRENT TRANSDUCER		1	ZIEGLER	E13
11	TEST BOX		4	FUJI	
12	AMMETR ANALOG,SIZE 96*96, CL.1.5		1	BEW	
13	VOLTMETER, 96*96 WITH V.S	0-6KV	1	BEW / TRS	
14	SURGE ARRESTER		3	PARS ARRESTER	PAJ
15	INDICATOR POSITION (SEMAPHORE)		1	CEWE	PI39
16	SEMAPHORE FOR TEST OR SERVICE		1	CEWE	PI36
17	DISCREPANCY		1	COMELECTRIC	DR115
18	CONTROL EQUIPMENT (MCB, P.B ,SIGNAL LAMP, TERMINAL, AUX. RELAY,)		1	CONTROL EQUIPMENT	
19	CUBICLE: METAL ENCLOSED EARTHING SWITCH	3.3KV, 25KA/1Sec	1	RUNIN SANAT	UNISAFE
	SALES ENGINEERING DEPT.				
COMMENT	Prepared by: M.Golmohammadi 86T=94 49CR=48 49R=49T			Checked by: M.Eslami	



LIST OF EQUIPMENTS (MTO)

SWG NAME:	3.3KV MV Switchgear
FEEDER NAME:	RISER
DIVON	BK-GCS-PEDCO-120-EL-SL-

PROJECT No: DATE: PROJECT NAME 30-Oct-23

BINAK OILFIELD DEVELOPMENT GENERAL R1402 P 107

QTY

DWG No.

RISER

KIS	diser						
ITEM	EQUIPMENT DESCRIPTION	RATING	QTY	MANUFACTURER ORIGIN	ТҮРЕ		
1 1	CONTROL EQUIPMENT (MCB, P.B ,SIGNAL LAMP, TERMINAL, AUX. RELAY,)		1	CONTROL EQUIPMENT			
2	CUBICLE: METAL ENCLOSED	3.3KV, 25KA/1Sec	1	RUNIN SANAT	UNISAFE		
	SALES ENGINE	ERING DEPT.					
	Prepared by: M.Golmohammadi			Checked by: M.Eslami			
COMMENT							



Project Name: Binak Oilfield Development General

Purchaser: Hirgan Energy

Our Reference: R1402 P 107, Rev 00

شرکت رانین صنعت گستر

سازنده تابلو برق

19. Technical offer for mv switchgear (Cap. Bank)

• List of equipment (Cap. Bank)

Runin Sanat Gostar Co. Tel: +98-21- 88679705, 06 +98-9132517243

October 30, 2023



LIST OF FEEDERS R1402 P 107

ITEM	Description	QTY
1	Cap. Bank 600KVAR	3
	TOTAL	3

360 KVAR according to calculation on MR.



LIST OF EQUIPMENTS (MTO)

SWG NAME:	MV Cap. Banl
FEEDER NAME:	Cap. Bank 600KVAF
DWG No.	BK-GCS-PEDCO-120-EL-SL

PROJECT NAME PROJECT No: DATE: 30-Oct-23

BINAK OILFIELD DEVELOPMENT GENERAL R1402 P 107

QTY

3

Cap. Bank 600KVAR

ITEM	EQUIPMENT DESCRIPTION		RATING	QTY	MANUFACTURER ORIGIN	ТҮРЕ
1	CAPACITOR UNIT		200KVAR	3	P.K.C	PK200/6.35/EDRI
2	INRUSH CURRENT REACTOR			3	FARA PAYAM	
3	SURGE ARRESTER			3	PARS ARRESTER	PAP
4	MV HRC FUSE			3	AEG	
5	INSULATOR			12	IRAN	
6	CONTROL EQUIPMENT (MCB, P.B ,SIGNAL LAMP, TERMINAL, AUX. RELAY,)			1	CONTROL EQUIPMENT	
7	CUBICLE: METAL ENCLOSED			1	RUNIN SANAT	
		IGINE	ERING DEPT.			
	Prepared by: M.Golmohammadi				Checked by: M.Eslami	
COMMENT						



Prepared by :A.Dehghani

Technical Proposal

Project Name: Binak Oilfield Development General

Purchaser: Hirgan Energy

Our Reference: R1402 P 107, Rev 00

شرکت رانین صنعت گستر

سازنده تابلو برق

20. Technical offer for lv switchgear (LV RCP)

• List of equipment (LV RCP)

Runin Sanat Gostar Co. Tel: +98-21- 88679705, 06 +98-9132517243

www.runinsanat.com / Email : Info@Runinsanat.com

List OF LV Switchgears R1402 P 107



Item	Description	Panel Type	swg. QTY
1	RCP	Wall Mounted	1
	TOTAL		1



List OF Equipmens (MTO)

 Rev:
 0
 SWG. NUMBER:
 1

 DATE:
 10/30/2023
 SWG. QUANTITY:
 1

 PRO. No:R1402 P:
 107
 SWG NAME:

	Ů,	(MTO)	PRO. NO:R1402 P:	107	SWG NAME:				
		PROJECT NAME:	BINAK (DILFIELD DEVELOPM	ИENT GENERAL				
	رديف	EQUIPMENT DESCRIPTION	EQUIPMENT DESCRIPTION RATING MA		ТҮРЕ				
	1	PUSH BUTTON		Schneider Electric		10			
	2	LAMP SIGNAL		Schneider Electric		20			
	3	DISCONNECTOR SWITCH, 2POLES, WITH FUSE	32A	RAAD		2			
	4	RESIDUAL CURRENT BREAKING OVER(RCBO), 2P, B CURVE, iDPN N Vigi30 mA	32A	Schneider Electric	A9D31625	1			
	5	TERMINAL		RAAD		45			
	6	Wall Mounted, IP42, with heater & lighting		RUNIN SANAT		1			
Ī		SALES ENGINEERING DEPT.							
	₽	Prepared by: S.Ghorbani	Checked by:	A.Dehghani					
	COMMENT								



Prepared by :A.Dehghani

Technical Proposal

Project Name: Binak Oilfield Development General

Purchaser: Hirgan Energy

Our Reference: R1402 P 107, Rev 00

شرکت رانین صنعت گستر

سازنده تابلو برق

21. Operation Tools

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LIST OF EQUIPMENTS (MTO)

SWG NAME:	
FEEDER NAME:	SPECIAL TOOLS

DWG No.

PROJECT NAME PROJECT No: DATE: 30-Oct-23

BINAK OILFIELD DEVELOPMENT GENERAL R1402 P 107

QTY

1

SPE	CIAL TOOLS				
ITEM	EQUIPMENT DESCRIPTION	RATING	QTY	MANUFACTURER ORIGIN	ТҮРЕ
1	ALLEN SPANNER (size 6)		3		
2	OPERATING LEVER FOR FEEDER/BUSBAR EARTHING SWITCH		1		
3	HAND CRANK FOR CHARGING THE CIRCUIT-BREAKER CLOSING SPRING.		1		
4	HAND CRANK FOR RACKING THE SWITCHING-DEVICE TRUCK		1		
5	DOUBLE-BIT KEY		5		
6	RELAY SOFTWARE :(1 DVD)		1		
7	OPERATION & MOUNTING INSTRUCTION		1		
8	VCB TRUCK		1		
9	CURRENT TEST BOX CABLE		1		
10	VOLTAGE TEST BOX CABLE		1		
11	CONNECTION RELAY CABLE BETWEEN PC & RELAY		1		
12	VASELINE		1		
13	PAINT		1		
	SALES ENGINE	ERING DEPT.		-	
	Prepared by: S.Ghorbani			Checked by:	
COMMENT				_	



Project Name: Binak Oilfield Development General

Purchaser: Hirgan Energy

Our Reference: R1402 P 107, Rev 00

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22. References

Oil, Gas and Petrochemical			
No.	Description	Project Name	Year
1	LV Switchgears	Alloy steel plant	2022
2	MV Switchgears	Petro Octane Isatis	2022
3	Main equipment Withdrawable Feeder	Danial Petro Company	2021
4	LV Switchgears	Jondishapur Company	2021
5	Free Standing And Wall Mounted MV Switchgears	South Pars Phase 14 Reservoir Project	2020
6	MV Switchgears	Gore Jask Pump House Jondishapur Company	2020
7	MV Switchgears	Khash Mir Javeh gas pressure boost	2020
8	Lighting and explosion proof MV Switchgears	Tombak service and export port project	2020
9	Withdrawable MV Switchgears	Bandar Abbas Petrochemical-nioo faraz	2019
10	LV Switchgears	Omran Sahel (Kangan)	2019
11	LV Switchgears	Jam Petrochemical	2017
12	control Switchgears	Esfahan Pressure Reducing Station-Part Niroo Company	2015
13	LV & MV Switchgears and MV Compact post	Zahedan Gas Station	2015
14	Fixed MV Switchgears	Orumieh Petrochemical	2014
15	Distribution Switchgears	Yadavaran oil field - Sarir Energy supply Company	2011
16	MV Switchgears	Shazand Arak Refinery-Energy Saze Company	2010
17	development plan Switchgears	Geranol Morvarid Company	2009
18	Design & Construction, AHUP & Lighting	Petroleum Industry Institute	2009
19	MCC Switchgears	Shahid Dolati Karaj Oil depot-Sayber Company	2009
20	Main and subsidiary Distribution Switchgears Generator control panel	Nar Project-Central oil-rich areas-Oil Company	2008
21	Main and subsidiary Distribution Switchgears Generator control panel	Kangan Project-Central oil-rich areas-Oil Company	2008
22	Main and subsidiary Distribution Switchgears Generator control panel	Bandar Abbas Project-Central oil-rich areas-Oil Company	2008
23	Subsidiary Switchgears	Barzin Company- Aria Selool Petrochemical	2007
24	Subsidiary Switchgears	Azarbaiejan Pressure Reducing Station- Aria Petrogaz	2007
25	Subsidiary Switchgears	Aria Selool Petrochemical-Nargan Company	2007
26	MCC Switchgears & Lighting	Aria Petrogaz– Shanol Multi-way station Project	2006
27	Office Complex Switchgears	Vaband Company-Varavi	2006
28	Main and sub-Distribution Switchgears Generator control panel	Plastic Chemical Company	2006
29	Design and Construction, MCC & Lighting	Afra shimi Company	2005
30	MV Switchgear, Main Distribution Switchgears, Capacitor, MCC & Lighting	Production of pressure vessels Company, CNG Sanka in Ghazvin	2004
31	MCC Switchgears	Siri Island oil tanks	2003
1	LV & LCB Switchgears	ndustry Foolad Mobarakeye Esfahan	2022
2	Lighting & MCC Switchgears	YAZD STEEL MAKING PROJECT	2022
3	LV & LCB Switchgears	Padide Kavosh Iranian	2021
4	LV Switchgears	Melting Iron Complex	2021
5	Lighting & LV Switchgears	Ghaenat Steel Company	2020
6	MV Switchgears	Sepid dasht Steel	2020
7	Lighting Switchgears	South kish Kaveh Steel	2020
	Punin Sanat		2020



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9 I 10 I 12 I 12 I 13 I 14 I 15 I 16 I I 16 I I I I I I I I I	MV Switchgears Lighting Switchgears LV Switchgears & Withdrawable MV Switchgears Lighting Switchgears Fixed LV Switchgears & Withdrawable MV Switchgears	Ghaenat Steel Rezvan Mine Miyaneh Steel Company Fakoor Industry-Gol gohar Steel Project	2020 2020 2019
10 I S S S S S S S S S	LV Switchgears & Withdrawable MV Switchgears Lighting Switchgears Fixed LV Switchgears & Withdrawable MV Switchgears	Miyaneh Steel Company Fakoor Industry-Gol gohar Steel Project	2019
11 II 12 F 3 I 13 II 14 I 15 F 16 V	Switchgears Lighting Switchgears Fixed LV Switchgears & Withdrawable MV Switchgears	Fakoor Industry-Gol gohar Steel Project	
11 I 12 F 5 13 I 14 I 5 15 F 16 V	Lighting Switchgears Fixed LV Switchgears & Withdrawable MV Switchgears		2010
13 II 14 II 15 F 16 \	Switchgears		2018
13 II 14 II 15 F 16 \	Switchgears	Pars Bootil	2017
14 I 5 15 F 16 V			
15 F 16 \	LV Switchgears	Yazd Steel Company	2017
15 F 16 \	LV Switchgears & Withdrawable MV	Ardakan Melting Steel Company	2017
16 \	Switchgears Fixed LV Switch accura	Audalian Ballahining Communi	2015
١	Fixed LV Switchgears	Ardakan Pelletizing Company	2015
	Withdrawable LV Switchgears & Withdrawable MV Switchgears	Arfa Steel Company	2014
17 ۱	Withdrawable LV Switchgears &	Yazd Melting Metals Company	2014
	Withdrawable MV Switchgears		
18 1	MV Switchgears (Development plant)	Milad Steel Company	
19 ľ	MV Switchgears	Yazd Profile Company	2014
20 l	LV Switchgears, D-R-I Line	Yazd Steel Company	2014
21 <i>A</i>	All Main Switchgears	Pars Bootil Company	2014
22 1	MV Switchgear Motor Drive	Arfa Steel Company	2011
23 F	Fixed MV Switchgears	Arfa Steel Company	2011
	Withdrawable MV Switchgears, Capacitor	Ardakan Pelletizing-Fakoor Industry	2009
	Switchgear, Lighting Switchgears	Company	0.5.5
25 \	Withdrawable MCC Switchgears	Ardakan Pelletizing-Fakoor Industry Company	2009
26 [Design and construction Capacitor Bank	Yazd Steel Company	2006
	Switchgears & Lighting Switchgears	raza Steel Company	2000
	MV Switchgear With Vacuum Contactor	Esfahan Melting Iron	2005
28 l	Lighting Switchgears	Yazd Alloy Steel	2004
	Mine Pr	rojects	
1 l	LV Switchgears	Daralou Copper Concentration	2022
2 l	LV Switchgears	Mining Company Maadanjou- Tabas	2021
3 1	MV Switchgears	Chadormaloo Industrial and Mining Company	2021
	LV Switchgears	Development and processing of iron Tange Zagh Company	2021
	LV Switchgears	Tange Zagh-Dr Dehghan	2021
6	(LCB & MV\LV\VFD Panel) Switchgears	Ronak Company (Esmalon Project)	2021
7 l	LV & LCB Switchgears	Mining and dam construction company(Aria Jonoub Iranian)-Zarand concentrate plant optimization project	2021
8 I	LV Switchgears	Nipek Copper Industry	2020
9 (Control Panel HMI	Iran National Copper Industries Company	2020
10 l	LV Switchgears	Esmalon Iron ore Complex	2020
11 l	LV Switchgears, MV Switchgears & Lighting	Tange zagh Iron ore Complex	2020
12 (Compact Post	Chadormaloo	2020
	Withdrawable LV Switchgears (Sivacon)	Copper Mines Complex & Copper	2014
		processing (Maskani naein)	
14 \	Withdrawable MV Switchgears (Unisafe)	Copper Mines Complex & Copper	2014
15 ľ	MCC Switchgears	processing (Maskani naein) Chadormaloo Wastewater treatment plant	2012
13	Pice Switchgears	Project, Fakoor Industry Company	2012
16	Sub-Distribution Switchgears	Zarand Project (ZISCO), Fakoor Industry	2012
		Company	
	Sub-Distribution Switchgears	Sirjan Project (SISCO), Fakoor Industry Company	2012
	Emergency Switchgears	Chadormaloo Mines Company	2009
	Withdrawable MCC Switchgears	Sayber Company- Mineral processing	2009
	LV Switchgears	Choghart Mine development plan (Itook Iran)	2008
١	Withdrawable LV Switchgears & Withdrawable 6.6 KV Switchgears	Tabas Coal Mines	2007
	Lighting Switchgears	Bafgh Iron Stone Mine	2007
23 l	Lighting and Distribution Switchgears	Sechahoun Mines	2007



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2 LV Switchgears Pars Fara GAM Company 202 3 LV Switchgears Pars Fara GAM Company 202 4 LV & MV Switchgears Rahe- Vab Melal Consulting Engineers Company-Tehran-Shomal freeway 202 5 Installation and assembly of RC filters and surge arresters Toos Asfalt Company Tehran-Shomal freeway 202 6 LV & MV Switchgears Tehran-Shomal freeway-Alborz Tunnel 202 7 LV Switchgears Iran Mal Complex 202 8 Free Standing And Wall Mounted LV Switchgears Iran Mal Complex 202 8 Free Standing And Wall Mounted LV Switchgears Iran Mal Complex 202 9 LV Switchgears Vezva Company-Shahre Aftab Multipurpose hall 201 10 LV Switchgears Vezva Company-Shahre Aftab Multipurpose hall 201 11 LV Switchgears Vezva Company-Shahre Aftab Sport Complex 202 11 LV Switchgears Sepanta Naghshe Parse(Ava Center Commercial Building 202 11 LV Switchgears Efixed MV Switchgears 202 12 LV Switchgears Efixed MV Switchgears 202 13 LV Switchgears Efixed MV Switchgears 202 14 Fix MV Switchgears 202 15 Fix LV and MV Switchgears 202 16 LV Switchgears 202 17 Company 202 18 Compact post 202 18 Compact post 202 19 LV Switchgears 202 10 Control Switchgears 202 10 Control Switchgears 6r Generators 202 11 Control Switchgears for Generators 203 12 Intelligent Switchgears 6r Generators 203 13 Control Switchgears for Generators 203 14 MV Switchgears 6r Generators 203 15 MC LV Switchgears 6r Generators 204 16 MV Switchgears (20 KV) 1 Industrial Zoon Power Plant 203 17 Control Switchgears for Generators 203 18 MC LV Switchgears 6r Generators 204 19 MV Switchgears (20 KV) 1 Industrial Zoon Power Plant 203 19 MV Switchgears (20 KV) 1 Industrial Zoon Power Plant 203 20 Intelligent Switchgears 3rd Generators 204 21 MC Switchgears 6r Generators 204 22 Distribution Switchgears (20 KV) 1 Sadd Maler 204 23 Junction Box Switchgears (20 KV) 1 Sadd Maler 204 24 Masjed Soleyman Dam Sub Tunnel 205 25 Sub & Main & Lighting Switchgears 204 26 MCC Switchgears With Drive & Soft Starter 205 26 MCC Switchgears With Drive & Soft Starter 205 27 Soft Starter Switchgears (75 KV) 1 Shabanad Power Plant 204	1	LV Switchgears	Khatamolanbia Construction Camp-Shahid	2021
3 LV Switchgears Pars Fara GAM Company 202 Rah-e Yab Melal Consulting Engineers Company-Tehran-Shomal freeway 202 Sinstallation and assembly of RC filters and surge arresters 202 LV Switchgears Tehran-Shomal freeway-Alborz Tunnel 202 Switchgears Vezva Company-Shahre Aftab 203 Switchgears Vezva Company-Shahre Aftab 203 Multipurpose hall Vezva Company-Shahre Aftab -Sport 203 LV Switchgears Vezva Company-Shahre Aftab -Sport 203 LV Switchgears Sepanta Naghshe Parse(Ava Center 203 Complex 203 LV Switchgears Sepanta Naghshe Parse(Ava Center 203 LV Switchgears Parse Maghad Parse Pa	2	LV Switchgears	Rajaei Institute Vezva Company	2021
LV & MV Switchgears Installation and assembly of RC filters and surge arresters Installation and assembly of RC filters and surge arresters IV Switchgears Irah all Complex Every Exanding And Wall Mounted LV Switchgears IV Switchgears Verya Company-Shahre Aftab Multipurpose hall Verya Company-Shahre Aftab -Sport Complex Separat Naphabe Parse(Ava Center Complex Separat Naphabe Parse(Ava Center Complex IV Switchgears IV Switchgears Power and Water Industry I LV Switchgears IV Switchgears IV Switchgears IV Switchgears IV Switchgears II Shaha Electrical Repair Company II Shaha Ele		_		2024
Company-Tehran-Shomal freeway 202 Switchgears Tehran-Shomal freeway 202 Switchgears Tehran-Shomal freeway-Alborz Tunnel 202 Tehran-Shomal freeway-Shomal freeway-Shomal freeway-Plant 202 Tehran-Shomal freeway-Shomal freeway-Plant 202 Tehran-Shomal freeway-Plant 202 Teh		-		
surge arresters 1. LV & MV Switchgears 7. LV Switchgears 8. Free Standing And Wall Mounted LV Switchgears 9. LV Switchgears 1. LV Switchgears 9. LV Switchgears 1. LV Switchgears 2. LV Switchgears 2. LV Switchgears 2. LV Switchgears 3. LV Switchgears 2. LV Switchgears 4. Fix MV Switchgears 4. Fix MV Switchgears 4. Fix MV Switchgears 5. Fix LV and MV Switchgears 6. LV Switchgears 6. LV Switchgears 6. LV Switchgears 7. Switchgears 8. Compact post 9. LV Switchgears 10. Control Switchgears for Generators 10. Control Switchgears for Generators 10. Control Switchgears for Generators 10. Lontrol Switchgears for Generators 10. Switchgears 10. Switchgears 10. Control Switchgears for Generators 10. Switchgears (20 KV) 10. MV Switchgears 10. MV Switchgears (20 KV) 10. Fix LV Switchgears (20 KV) 10. Fix LV Switchgears (20 KV) 10. Switchgears 10. Control Switchgears for Generators 10. Switchgears (20 KV) 10. Switchgears 10. Control Switchgears 10. Switchgears 10. Control Switchgears 10. Switchg	4	LV & MV Switchgears		2021
Transpace Free Standing And Wall Mounted LV Kermanshah Science and Technology Park Switchgears Vezva Company-Shahre Aftab Weltipurpose hall LV Switchgears Vezva Company-Shahre Aftab Science Switchgears Vezva Company-Shahre Aftab Switchgears Vezva Company-Shahre Aftab Sport Complex Complex Vezva Company-Shahre Aftab Sport Complex Vezva Company-Shahre Aftab Sport Complex Vezva Company-Shahre Aftab Sport Vezva Company Vezva	5		Toos Asfalt Company	2021
Free Standing And Wall Mounted LV Switchgears Vezva Company-Shahre Aftab Switchgears Vezva Company-Shahre Aftab Multipurpose hall Vezva Company-Shahre Aftab Supremental	6	LV & MV Switchgears	Tehran-Shomal freeway-Alborz Tunnel	2020
Switchgears Verwa Company-Shahre Aftab 201	7	LV Switchgears	Iran Mal Complex	2020
LV Switchgears	8		Kermanshah Science and Technology Park	2020
LV Switchgears	9			2018
LV Switchgears	10	LV Switchgears	Vezva Company-Shahre Aftab -Sport	2017
LV Switchgears Energy Satrap Iranian Company 202	11	LV Switchgears	Sepanta Naghshe Parse(Ava Center	2017
1 LV Switchgears		Power and W		
2 LV Switchgears 3 LV Switchgears & Fixed MV Switchgears 4 Fix MV Switchgears 5 Fix LV and MV Switchgears 6 LV Switchgears 7 Persia Power Plant 9 Persia Power Plant 9 LV Switchgears 10 Compact post 10 Compact post 11 Control Switchgears for Generators 12 Intelligent Switchgears 13 Control Switchgears for Generators 14 MV Switchgears for Generators 15 MCC LV Switchgears 16 MV Switchgears 17 Company 18 Control Switchgears for Generators 19 LV Switchgears 10 Control Switchgears 10 Control Switchgears 11 Control Switchgears 12 Intelligent Switchgears 13 Control Switchgears for Generators 14 MV Switchgears for Generators 15 MCC LV Switchgears 16 MV Switchgears 17 Fix LV Switchgears 18 Control Switchgears 19 MV Switchgears 10 Control Switchgears 10 Control Switchgears 10 Control Switchgears 10 Control Switchgears 11 Control Switchgears 12 Macro LV Switchgears 13 Control Switchgears 14 MV Switchgears 15 MCC LV Switchgears 16 MV Switchgears 17 Fix LV Switchgears 18 Control Switchgears for Generators 19 MV Switchgears 10 MV Switchgears 10 MV Switchgears 10 MV Switchgears 11 Control Switchgears 12 Distribution Switchgears 12 Distribution Switchgears 13 Ly Ly Switchgears 14 MX Switchgears 15 Sub & Main & Lighting Switchgear 16 MCC Switchgears 17 Soft Starter 18 Control Switchgears 18 Control Switchgears 19 MX Switchgears 20 MX Switchgears 21 Sub & Main & Lighting Switchgear 22 Sub & Main & Lighting Switchgear 23 Junction Box Switchgears 24 Masjed Soleyman Dam Sub Tunnel 25 Sub & Main & Lighting Switchgear 26 MCC Switchgears 27 Soft Starter Switchgears 28 Sub & Main & Lighting Switchgear 29 Sub & Main & Lighting Switchgear 20 Soft Starter Switchgears 20 Sub & Main & Lighting Switchgears 20 Sub & Main & Lighting Switchgears 21 Lighting and Main Distribution Switchgears 22 Lighting and Main Distribution Switchgears 29 Lighting and Main Distribution Switchgears 20 Control Swit	1			2021
Tabriz CHP Powerhouses- Energy Services Company Fix LV and MV Switchgears Fix LV Switchgear		-		2021
Company Fix MV Switchgears Persia Power Plant 201 Fix LV and MV Switchgears Pouyan Afzar Power Plant 201 Compact post East Persia Power Plant 201 Compact post Kerman Power Plant (Sinaco) 201 Compact post Ardakan Power Plant (Sinaco) 201 LV Switchgears Abbas Abad Power Plant 201 Control Switchgears for Generators Sirjan Power Plant (Sinaco) 201 Control Switchgears for Generators Mashhad Power Plant 201 Company 201 Company 201 Control Switchgears Generators Saough Power Plant 201 MV Switchgears (20 KV) Industrial Zoon Power Plant 201 MV Switchgears (20 KV) Yazd Cable and Wire Company 201 MV Switchgears (20 KV) Yazd Cable and Wire Company 201 Control Switchgears Generators Jamper Company 201 MV Switchgears (20 KV) Yazd Water Transfer Plant 201 WV Switchgears (20 KV) Yazd Water Transfer Plant 201 WV Switchgears (20 KV) Yazd Water Transfer Plant 201 WV Switchgears (20 KV) Yazd Water Transfer Plant 201 MV Switchgears (20 KV) East Persai Energy Producing Company 201 MCC Switchgears (1600A) Jamper Co Karaj Mapna 201 MCS witchgears (3200A)% 20KV Switchgear and Sewerage Company Water supply of production line and rolling Damper Co Karaj Mapna 201 Witchgears (3200A)% 20KV Switchgear and Sewerage Company 201 Masjed Soleyman Dam Sub Tunnel 201 MCC Switchgears Earthy Dam koohban-Yazd Soil & Water Company 201 MCC Switchgears (75 KV) Kish Power and Water 200 Soft Starter Switchgears (75 KV) Kish Power plant water supply 201 Control Switchgears (75 KV) Kish Power and Water 200 Silphting , LV and MV Switchgears Khatereh Tile Company 201 MV Switchgears (20evelopment Plant) Ifa Ceram Company 201 MV Switchgears (Development Plant) Ifa Ceram Company 201 MV Switchgears, Main Distribution Shitrkoh Tile Company 201 MV Switchgears, Main Distribution Shitrkoh Tile Company 201 MV Switchgears, Main Distribution Shitrkoh Tile Company 201 MV Switchgears, Main Distribu				2021
5 Fix LV and MV Switchgears Pouyan Afzar Power Plant 201 6 LV Switchgears and Compact post East Persia Power Plant 201 7 Compact post Kerman Power Plant 201 8 Compact post Ardakan Power Plant 201 9 LV Switchgears for Generators Abbas Abad Power Plant 201 10 Control Switchgears for Generators Sirjan Power Plant (Sinaco) 201 11 Control Switchgears for Generators Mashhad Power Plant 201 12 Intelligent Switchgears Yazd and Kerman Power Distribution 201 Company 201 13 Control Switchgears for Generators Saough Power Plant 201 14 MV Switchgears (20 KV) Industrial Zoon Power Plant 201 15 MCC LV Switchgears Water Transfer of Arfah Steel Company 201 16 MV Switchgears (20 KV) Yazd Cable and Wire Company 201 17 Fix LV Switchgears Jamper Company 201 18 Control Switchgears for Generators Zarand Power Plant (Sinaco) 201 19 MV Switchgears (20 KV) Yazd Water Transfer Plant 201 MV Switchgears (20 KV) Yazd Water Transfer Plant 201 20 MV Switchgears (20 KV) Yazd Water Transfer Plant 201 21 MCC Switchgears With Drive & Soft Starter Plant 201 22 Distribution Switchgears (1600A) Jamper Co Karaj Mapna 201 23 Junction Box Switchgears (1600A) Jamper Co Karaj Mapna 201 24 Masjed Soleyman Dam Sub Tunnel Switchgears (3200A)& 20KV Switchgear (20 KV) Wasd Steel Company Water Supply of Switchgears (3200A)& 20KV Switchgear (20 KW) Shapand Power plant water supply 200 26 MCC Switchgears Earthy Dam koohban-Yazd Soil & Water Company 201 27 Soft Starter Switchgears (75 KV) Kish Power and Water 200 28 Sub & Main & Lighting Switchgears Shapand Power plant water supply 201 29 Sub & Main & Lighting Switchgears Shirkooh Tile Company 201 30 Lighting and Main Distribution Switchgears Shirkooh Tile Company 201 4 MV Switchgears Ifa Ceram Company 201 5 Control Switchgears Main Distribution Shirkooh Tile Company 201 5 Control Switchgears Main Distribution Shirkooh Shirkooh Tile Company 201 6 LV Switchgears Main Distribution Shirkooh Shirkooh Tile Company 201	J		Company	
6 LV Switchgears and Compact post		_		2017
7 Compact post Kerman Power Plant (Sinaco) 201 8 Compact post Ardakan Power Plant 201 9 LV Switchgears Abbas Abad Power Plant 201 10 Control Switchgears for Generators Sirjan Power Plant (Sinaco) 201 11 Control Switchgears for Generators Mashhad Power Plant (Sinaco) 201 12 Intelligent Switchgears Yazd and Kerman Power Distribution 201 13 Control Switchgears For Generators Saough Power Plant 201 14 MV Switchgears (20 KV) Industrial Zoon Power Plant 201 15 MCC LV Switchgears Water Transfer of Arfah Steel Company 201 16 MV Switchgears Jamper Company 201 17 Fix LV Switchgears Jamper Company 201 18 Control Switchgears G20 KV) Yazd Cable and Wire Company 201 19 MV Switchgears (20 KV) Yazd Water Transfer Plant 201 20 MV Switchgears (20 KV) Yazd Water Transfer Plant 201 21 MCC Switchgears With Drive & Soft Starter & Plc 201 22 Distribution Switchgears (1600A) Jamper Co Karaj Mapna 201 23 Junction Box Switchgear, Distribution Switchgears (3200A)& 20KV Switchgear 20 Masjed Soleyman Dam Sub Tunnel Switchgears Shahaat, Wast Tehran Water 205 25 Sub & Main & Lighting Switchgears Earthy Dam koohban-Yazd Soil & Water 206 26 MCC switchgears (75 KV) Kish Power and Water Supply 200 27 Soft Starter Switchgears (75 KV) Kish Power and Water 200 28 Lighting and Main Distribution Switchgears Shahzand Power plant water supply 201 29 Lighting and Main Distribution Switchgears Shahzand Power plant water supply 201 20 Lighting and Main Distribution Switchgears Shirkooh Tile Company 201 21 Lighting and Main Distribution Switchgears Khatereh Kavir Tile Company 201 22 Control Switchgears MV Switchgears MV Switchgears MV Switchgears Michagears MKhatereh Kavir Tile Company 201 23 MV Switchgears, Main Distribution Shirkooh Tile Company 201 24 MV Switchgears, Main Distribution Shirkooh Tile Company 201 25 Control Switchgears, Main Distribution Shirkooh Tile Company 201 26 MV Switchgears, Main Distribution Shirkooh Tile Company 201		-	•	2017
8 Compact post Ardakan Power Plant 201 9 LV Switchgears Abbas Abad Power Plant 201 10 Control Switchgears for Generators Sirjan Power Plant (Sinaco) 201 11 Control Switchgears for Generators Mashhad Power Plant 201 12 Intelligent Switchgears Yazd and Kerman Power Distribution Company 201 13 Control Switchgears for Generators Saough Power Plant 201 14 MV Switchgears (20 KV) Industrial Zoon Power Plant 201 15 MCC LV Switchgears Water Transfer of Arfah Steel Company 201 16 MV Switchgears (20 KV) Yazd Cable and Wire Company 201 17 Fix LV Switchgears Jamper Company 201 18 Control Switchgears for Generators Zarand Power Plant (Sinaco) 201 19 MV Switchgears (20 KV) Yazd Water Transfer Plant 201 20 MV Switchgears (20 KV) East Persai Energy Producing Company 201 21 MCC Switchgears With Drive & Soft Starter & Plc		-		2016
9 LV Switchgears 10 Control Switchgears for Generators 11 Control Switchgears for Generators 11 Control Switchgears for Generators 12 Intelligent Switchgears 13 Control Switchgears 14 MV Switchgears for Generators 15 MCC LV Switchgears 16 MV Switchgears 17 Fix LV Switchgears 18 Control Switchgears 19 MV Switchgears 10 MV Switchgears 10 MV Switchgears 11 MV Switchgears 12 MV Switchgears 13 MV Switchgears 14 MV Switchgears 15 MCC LV Switchgears 16 MV Switchgears 17 Fix LV Switchgears 18 Control Switchgears 19 MV Switchgears 19 MV Switchgears 10 MV Switchgears 10 MV Switchgears 11 MV Switchgears 12 MV Switchgears 13 MV Switchgears 14 MV Switchgears 15 MV Switchgears 16 MV Switchgears 17 Fix LV Switchgears 18 Control Switchgears for Generators 19 MV Switchgears for Generators 20 MV Switchgears 21 MCC Switchgears 22 MV Switchgears 23 Munction Box Switchgear 24 Masjed Soleyman Dam Sub Tunnel 25 Switchgears 26 MCC switchgears 27 Soft Starter Switchgears 28 Sub & Main & Lighting Switchgears 29 Sub & Main & Lighting Switchgears 20 Shahzand Power Plant 20 Switchgears 20 Shahzand Power Plant 20 Company 20 Company 20 MV Switchgears 21 PLC Switchgears 22 Lighting and Main Distribution Switchgears 23 Lighting , LV and MV Switchgears 24 MV Switchgears 25 Sub & Main & Lighting Switchgears 26 Shirkooh Tile Company 27 Soft Starter Switchgears 28 Shirkooh Tile Company 29 Lighting and Main Distribution Switchgears 3 Lighting , LV and MV Switchgears 4 MV Switchgears 5 Shirkooh Tile Company 20 Shirkooh Tile Company	7		Kerman Power Plant (Sinaco)	2016
10 Control Switchgears for Generators Sirjan Power Plant (Sinaco) 201 11 Control Switchgears for Generators Mashhad Power Plant 201 12 Intelligent Switchgears Yazd and Kerman Power Distribution Company 201 13 Control Switchgears for Generators Saough Power Plant 201 14 MV Switchgears (20 KV) Industrial Zoon Power Plant 201 15 MCC LV Switchgears Water Transfer of Arfah Steel Company 201 16 MV Switchgears (20 KV) Yazd Cable and Wire Company 201 17 Fix LV Switchgears Jamper Company 201 18 Control Switchgears for Generators Zarand Power Plant (Sinaco) 201 19 MV Switchgears (20 KV) Yazd Water Transfer Plant 201 20 MV Switchgears (20 KV) Yazd Water Transfer Plant 201 21 MCC Switchgears With Drive & Soft Starter & Plant 201 22 Distribution Switchgears (1600A) Jamper Co Karaj Mapna 201 23 Junction Box Switchgear, Distribution Switchgears (3200A)& 20KV Switchgear and Sewerage Company 202 24 Masjed Soleyman Dam Sub Tunnel Switchgears Sub & Main & Lighting Switchgears Shahzand Power plant water supply 200 25 Sub & Main & Lighting Switchgears Shahzand Power plant water supply 200 26 MCC switchgears (75 KV) Kish Power and Water 200 27 Soft Starter Switchgears Shirkooh Tile Company 201 28 Lighting and Main Distribution Switchgears Khatereh Tile Company 201 30 Lighting , LV and MV Switchgears Khatereh Tile Company 201 41 MV Switchgears (1600A) Ifa Ceram Company 201 51 Control Switchgears (1600A) Ifa Ceram Company 201 52 Control Switchgears (1600A) Khatereh Kavir Tile Company 201 53 Lighting , LV and MV Switchgears (1600A) Khatereh Tile Company 201 54 MV Switchgears (1600A) Ifa Ceram Company 201 55 Control Switchgears (1600A) Ifa Ceram Company 201 66 LV Switchgears (1600A) Ifa Ceram Company 201 77 MV Switchgears (1600A) Ifa Ceram Company 201 78 MV Switchgears (1600A) Ifa Ceram Company 201 79 MV Switchgears (1600A) Ifa Ceram Company 201 70 MV Switchgears (1600A) Ifa Ceram Company 201 71 MV Switchgears (1600A) Ifa Ceram Company 201 71 MV Switchgears (1600A) Ifa Ceram Company 201		·	Ardakan Power Plant	2016
11 Control Switchgears for Generators	9	LV Switchgears		2016
12 Intelligent Switchgears	10	Control Switchgears for Generators	Sirjan Power Plant (Sinaco)	2014
Company 13 Control Switchgears for Generators Saough Power Plant 201 14 MV Switchgears (20 KV) Industrial Zoon Power Plant 201 15 MCC LV Switchgears Water Transfer of Arfah Steel Company 201 16 MV Switchgears (20 KV) Yazd Cable and Wire Company 201 17 Fix LV Switchgears Jamper Company 201 18 Control Switchgears for Generators Zarand Power Plant (Sinaco) 201 19 MV Switchgears (20 KV) Yazd Water Transfer Plant 201 20 MV Switchgears (20 KV) East Persai Energy Producting Company 201 21 MCC Switchgears With Drive & Soft Starter & Plant 201 22 Distribution Switchgears (1600A) Jamper Co Karaj Mapna 201 23 Junction Box Switchgear, Distribution Switchgears (3200A)& 20KV Switchgear and Sewerage Company 200 24 Masjed Soleyman Dam Sub Tunnel Switchgears Earthy Dam koohban-Yazd Soil & Water Company 200 25 Sub & Main & Lighting Switchgears Earthy Dam koohban-Yazd Soil & Water Company 200 26 MCC switchgears (75 KV) Kish Power and Water 200 27 Soft Starter Switchgears (75 KV) Kish Power and Water 200 28 Lighting and Main Distribution Switchgears Yazd Azarin Stone Company 201 3 Lighting , LV and MV Switchgears Khatereh Tile Company 201 4 MV Switchgears Found MV Switchgears Khatereh Tile Company 201 5 Control Switchgears Khatereh Kavir Tile Company 201 6 LV Switchgears, Main Distribution Shitrhooth Tile Company 201 7 MV Switchgears, Main Distribution Shitrhooth Tile Company 201 7 MV Switchgears, Main Distribution Shitrhooth Tile Company 201 7 MV Switchgears, Main Distribution Shitrhooth Tile Company 201 7 MV Switchgears, Main Distribution Shitrhooth Tile Company 201	11	Control Switchgears for Generators	Mashhad Power Plant	2015
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21 MCC Switchgears With Drive & Soft Starter & Plc	19	MV Switchgears (20 KV)	Yazd Water Transfer Plant	2013
& Plc Distribution Switchgears (1600A) Distribution Switchgears (1600A) Jamper Co Karaj Mapna Distribution Switchgears (3200A)& 20KV Switchgear Masjed Soleyman Dam Sub Tunnel Switchgears Sub & Main & Lighting Switchgears MCC switchgears MCC switchgears MCC switchgears (75 KV) Tile and Ceramic Industry PLC Switchgears Lighting and Main Distribution Switchgears Lighting , LV and MV Switchgears MX Switch	20	MV Switchgears (20 KV)	East Persai Energy Producing Company	2011
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26MCC switchgearsShahzand Power plant water supply20027Soft Starter Switchgears (75 KV)Kish Power and Water200Tile and Ceramic Industry1PLC SwitchgearsShirkooh Tile Company2012Lighting and Main Distribution SwitchgearsYazd Azarin Stone Company2013Lighting , LV and MV SwitchgearsKhatereh Tile Company2014MV SwitchgearsIfa Ceram Company2015Control SwitchgearsKhatereh Kavir Tile Company2016LV Switchgears (Development Plant)Ifa Ceram Company2017MV Switchgears, Main DistributionShirkooh Tile Company201	25			2008
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1 PLC Switchgears Shirkooh Tile Company 201 2 Lighting and Main Distribution Switchgears Yazd Azarin Stone Company 201 3 Lighting , LV and MV Switchgears Khatereh Tile Company 201 4 MV Switchgears Ifa Ceram Company 201 5 Control Switchgears Khatereh Kavir Tile Company 201 6 LV Switchgears (Development Plant) Ifa Ceram Company 201 7 MV Switchgears, Main Distribution Shirkooh Tile Company 201	27			2002
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7 MV Switchgears, Main Distribution Shirkooh Tile Company 201	5	Control Switchgears	Khatereh Kavir Tile Company	2014
				2014
		Switchgears & Capacitor Bank	, ,	2010
8 MV Switchgears, Main Distribution Civil Yazd baft Company 201 Switchgears & Capacitor Bank	8		Civil Yazd baft Company	2010



Project Name: Binak Oilfield Development General

Purchaser: Hirgan Energy

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9	Participation in construction of All Complex Switchgears	Faraz Control-Perspolis Tile Company	2010
10	MV Switchgears, Main Distribution Switchgears & Capacitor Bank	Sofal Bam Tile	2009
11	All Development plan switchgears	Yazd Tile Company Development plan	2009
12	Design and construction Of All Complex Switchgears	Pars stone industries Company	2007
13	Design and construction of post 2 MV Switchgear	Yazd Tile Company Development plan	2005
14	Design and construction of Line Control Switchgear- Distribution Switchgears- Capacitor Bank	Sara Loab Meybod Company	2005
15	Loab Meybod Company	Mina Loab Meybod Company	2005
16	Design and construction Of All Complex Switchgears	Omid Loab Meybod Company	2005
17	Design and construction Of Distribution Switchgears (2000A)	Orchin Meybod Tile Company Development plan	2004
18	Design and construction of Line Control Switchgear- Distribution Switchgears- Capacitor Bank	Loab Isatis Company	2004
19	Design and construction of Line Control Switchgear- Distribution Switchgears- Capacitor Bank	Aftab neshan Meybod Company	2003
20	Design and construction of Line Control Switchgear- Distribution Switchgears- Capacitor Bank	Granite Ariya Company	2002
	Textile i	ndustry	
1	LV Switchgears & Compcat Post	Zarrin Tex Company	2016
2	LV & MV Switchgears, Capacitor Bank	Alyaf Gostar Company	2014
3	Design and construction of Development plan Switchgears	Kavir Semnan Company	2010
4	Design and construction of MV Switchgears, MCC & Distribution Switchgears	Gohar Chap Company	2010
5	Design and construction of MV Switchgears, MCC & Distribution Switchgears	Pars thread Company	2008
	Food in	dustry	
1	LV Switchgears	Kale Tehran (Sooliko)	2021
2	LV Switchgears	Kale Tehran	2020
3	LV & MV Switchgears, Capacitor Bank	Kadbanoo Company-Delpazir	2012
4	Distribution Switchgears of Main & Sub Capacitor Bank Switchgears & Control Switchgears for Generators	Food industry (Derajhe)	2009
5	Main Distribution Switchgears, Capacitor Bank Switchgear, Post 20 KV	Chabahar Oil factory- Free trade zone	2009
6	Distribution Switchgears of Main & Sub Capacitor Bank Switchgears	Firoozkooh Starch and glucose	2007
7	Distribution Switchgears of Main & Sub Capacitor Bank Switchgears & Control Switchgears for Generators	Shahrood concentrate	2007
8	Design and construction Of Capacitor Bank Switchgears & Main Distribution Switchgears	Yazd Silo and Grain Administration	2002
	Hosp		
1	LV Switchgears	Golestan Hospital	2016
2	LV Switchgears	Navy Hospital (Abnieh Gostar Company)	2016
3	Lighting , LV and MV Switchgears	Minab Hospital	2014
4	LV and MV Switchgears	Bahman Hospital	2014
5	HVAC and MCC Switchgears	Bandar Abbas Hospital	2010
6	MCC and Distribution Switchgears	Kish Hospital	2009
7	Lighting , LV and MV Switchgears	Bandar Abbas Food and Medicine Company	2009
	Airp		
1	LV Switchgears (1&2 Transit Saloon)	Kish Airport	2009
2	LV Switchgears (1&2 Transit Saloon) HVAC and MCC Switchgears	Kish Airport Kish Airport	2006
	LV Switchgears (1&2 Transit Saloon)	Kish Airport Kish Airport Next Building of Imam Airport	

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1	LV Switchgears	Quality test research company	2021
2	LV Switchgears	Quality test research company Quality test company	2021
3	Wall mounted Frame	Safir Company	2021
4	LV Switchgears	Quality test research company	2021
5	LV Switchgears	Borna Rad - Dynamic Engineering and Technology Development Company	2021
6	LV Switchgears	Abnieh Gostar Company	2021
7	LV Switchgears	Infrastructure and equipment of the Refah bank data center	2020
8	LV Switchgears	Sahand Data Center	2020
9	LV Switchgears	Tehran Electricity Distribution Company Data Center	2020
10	Wall mounted LV Switchgears	Iran National Copper Industries-Nipek Company	2020
11	LV Switchgears	Bojnoord Kimiadaran Ammonium sulfate	2020
12	Distribution & Lighting Switchgears	Tehran-Shomal freeway-Pars Faragam Company	2019
13	VFD Switchgears	Tehran-Shomal freeway-Pars Faragam Company	2019
14	MV Switchgears	Shahid Rajaei wharf-Niroo Faraz Company	2019
15	LV Switchgears	Tehran Metro Line 6 (Ahab)	2017
16	LV Switchgears	Tehran Metro Line 7 (Sub Niroo)	2017
17	MV Switchgears	Niroo Koler Company	2017
18	LV Switchgears	Khuzestan Aluminum Company	2017
19	LV Switchgears	Niroo Koler Company	2016
20	Control and MCC Switchgears	Bandar Abbas Ship Manufacturing	2014
21	PLC Switchgears	Bandar Abbas Ship Manufacturing	2014
22	Distribution Switchgears	Piping Line Company	2014
23	MV Switchgears (20 KV)	Isatis Fadak Paper Company	2014
24	MV Switchgears (UniSafe)	Ardakan Glass Company	2014
25	Main Distribution and Capacitor Bank Switchgears	Iran Kavosh Polymer Pipe Company	2011
26	Capacitor Bank Switchgears	Palayesh Niroo Company	2011



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شرکت رانین صنعت گستر

سازنده تابلو برق

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شرکت رانین صنعت گستر

سازنده تابلو برق

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> Annex

NO Annex

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October 30, 2023