

DOCUMENT TITLE:
BLOCK DIAGRAM CONFIGURATION
FOR CONTROL/ESD/F&G SYSTEM

[illegible]



(8" PIPE LINE)

(8" PIPE LINE)

(4" PIPE LINE)

(8" PIPE LINE)

NOTE 1,3

```
graph TD
    subgraph Channel1 [ ]
        direction TB
        B1(( )) --- L1((X))
    end
    subgraph Channel2 [ ]
        direction TB
        B2(( )) --- L2((X))
    end
    B1 --- R1[RELAY]
    L1 --- R1
    R1 --- T1[NEW TERMINALS]
    B2 --- R2[SIL3 ESD RELAY]
    L2 --- R2
    R2 --- T2[NEW ESD TERMINALS]
```

NOTE 3

NOTE 3

NOTE 3

NOTE 3

NOTE 3

NOTE 4,2

NOTE 4,2

NOTE 4,2

NO AUTOMATE INSTRUMENT/ACTUATOR

LINE BREAK VALE

LINE BREAK VALE

NOTES

1. NEW ESD/ DCS SYSTEM LOOPS OF SIAHMAKAN SHALL BE INSTALLED IN EXISTING CONTROL/SAFETY PANEL SYSTEM. THERE IS NO INTERFACE SIGNAL FROM SIAHMAKAN EXISTING CONTROL/ESD SYSTEM TO NEW DEVICES CONSIDERED FOR GAS PIPE LINE.

2. SEPARATE JB FOR DIFFERENT SIGNAL TYPES (Digital/Analogue) SHALL BE USED.

3. ALL NEW SYSTEM (DCS/ ESD/ F&G) AND DEVICE IN GCS NEW CONTROL ROOM ALSO CABLING IN BETWEEN SHALL BE PROVIDED THROUGH BINAK GCS WORK PACKAGE. THERE IS NO COMMUNICATION WITH EXISTING SYSTEMS IN GCS OLD CONTROL ROOM.

4. NUMBER OF CABINETS, F&G DETECTOR, FIELD INSTRUMENTS SHALL BE CONSIDERED IN ACCORDANCE WITH RELATED DOCUMENT.

5. ALL REQUIRED DEVICES FOR NEW LOOPS IN SIAHMAKAN EXTENSION OF EXISTING SYSTEM SUCH AS SIL3 RELAY, I/O, ... TO BE PROVIDED BY CONTRACTOR AND TO BE INSTALLED ON EXISTING PANEL, ALSO SHALL BE IN COMPLIANCE WITH EXISTING PANEL SYSTEM SPECIFICATION.

~~D05~~

LEGEND

	SWITCHES		GAS DETECTOR
	TRANSMITTER		FLAME DETECTOR
	ON/OFF VALVE		MAC
	CONTROL VALVE		SIREN/BEACON
	LOCAL CONTROL PANEL		SMOKE DETECTOR
	HEAT DETECTOR		
	LAMP		
	PUSH BUTTON		
-----	CONTROL HARD-WIRE		
.....	REDUNDANT ETHERNET NETWORK		
—●—●—●—●—	REDUNDANT MODBUS RTU SERIAL LINK		
-----	ADDRESSABLE F&G SERIAL LINK		

REFERENCE DRAWING	DRG. No.
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KEY PLAN

D05	JUN-2023	APC	P.HALADNATH	M.PATHAN	A.M.MOHSEN	00.00
D04	AUG-2022	IPA	P.HALADNATH	M.PATHAN	M.MOHSENAD	00.00
D03	APR-2022	IPA	P.HALADNATH	M.PATHAN	M.MOHSENAD	00.00
D02	JAN-2022	IPA	P.HALADNATH	M.PATHAN	M.MOHSENAD	00.00
D01	OCT-2021	IPA	P.HALADNATH	M.PATHAN	M.MOHSENAD	00.00
D00	AUG-2021	IPC	M.ASHRAFATH	M.PATHAN	SH.GHAZAL	00.00
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

اصل و کليه نسخ اين نقشه و حق انقباض معطوف به شرکت ملي مناطق نفت خيز جنوب مي باشد

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PROJECT NAME:	BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS & GAS-CONDENSATE PIPELINES
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EPC CONTRACTOR:  HIRGAN ENERGY  HIRGAN ENERGY - DESIGN & INSPECTION COMPANY.	EPD/EPC CONTRACTOR (GC):  PEDCO PETROIRAN DEVELOPMENT COMPANY
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DRAWING TITLE:	
BLOCK DIAGRAM CONFIGURATION FOR CONTROL/ESD/F&G SYSTEM	

BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS & GAS-CONDENSATE PIPELINES				
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED		
APPROVED FOR CONSTRUCTION	BY:	DATE:

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
1-53-073-9184	F	2	J	208591	2	D05

(VENDOR TITLE BLOCK)**