

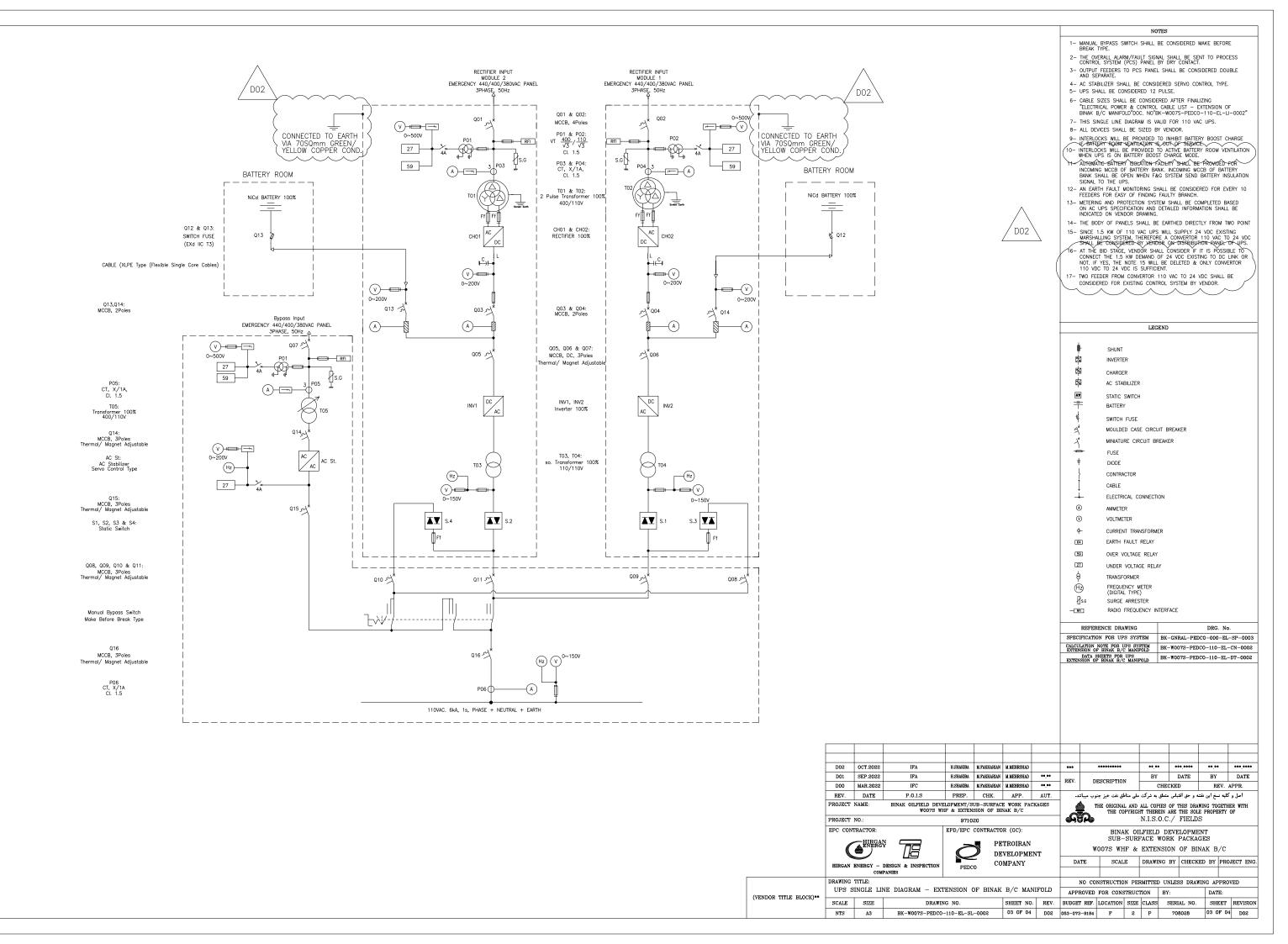
## TABULATION OF REVISED PAGES

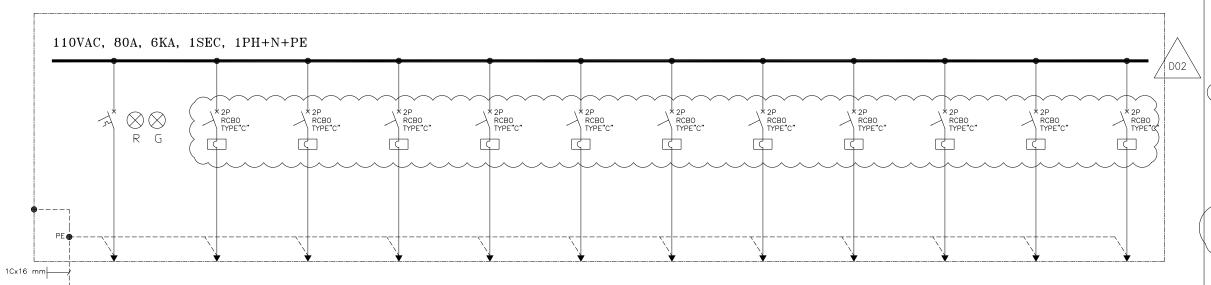
PAGE	REV. 00	REV. 01	REV. 02	REV. 03
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REFERENCE DRAWING	DRG. No.
SPECIFICATION FOR UPS SYSTEM	BK-GNRAL-PEDCO-000-EL-SP-0003
CALCULATION NOTE FOR UPS SYSTEM EXTENSION OF BINAK B/C MANIFOLD	BK-W007S-PEDCO-110-EL-CN-0002
DATA SHEETS FOR UPS EXTENSION OF BINAK B/C MANIFOLD	BK-W007S-PEDCO-110-EL-DT-0002

D02	OCT.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD		***		*********		**,**	**	*.***	**,**	***.***
D01	SEP.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	**,**	REV.	DI	ESCRIPTION	ıī	BY	1	DATE	BY	DATE
D00	MAR.2022	IFC	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	**,**	KEV.	וע	ESCRIPTIO			CHECKED		REV.	APPR.
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PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES W007S WHF & EXTENSION OF BINAK B/C								T	HE ORIGINAL THE CO	PYRIGH	T THERE	IN ARE	THE SOLE	PROPERTY	
PROJECT	PROJECT NO.: 971020										N.I.S.	).C./	FIELDS		
EPC CON	EPC CONTRACTOR: EPD/EPC CONTRACTOR (GC):							BINAK OILFIELD DEVELOPMENT							
PETROIRAN DEVELOPMENT						NT		w	SUB-				PACKAG OF BIN		
HIRCAN	ENERGY -	DESIGN & INSPECTION	COMPANY			DAT	ľE	SCAL	E	DRAWIN	IG BY	CHECKE	D BY PF	OJECT ENG.	
mitoart		PANIES	PEDC	U											
DRAWING							NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED						OVED		
UPS SINGLE LINE DIAGRAM - EXTENSION OF BINAK B/C MANIFOLD						NIFOLD	APPROVED FOR CONSTRUCTION BY: DATE:								
SCALE	SIZE	DRAWIN	IG NO. SHEET NO. REV.			BUDGET	REF.	LOCATION	SIZE	CLASS	SERI	IAL NO.	SHEET	REVISION	
NTS	A3	BK-W007S-PEDCO-	-110-EL-SL	-0002	02 OF 04	D02	053-073-	9184	F	2	P	70	8028	02 OF 0	4 D02





## CATEGORY

CODE	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
P (KW)	6.72 KW	1 KW	1 KW	0.7 KW	0.7 KW	0.6 KW	0.6 KW	0.6 KW	0.6 KW	1.5 KW	1 KW	1 KW
CB TYPE/RATING	MCCB/80A	RCBO/16A	RCBO/16A	RCBO/16A	RCBO/16A	RCBO/16A	RCBO16A	RCBO/16A	RCBO/16A	RCBO/16A	RCBO/16A	RCBO/16A
CABLE SIZE	NOTE 6	2×6	2×6	2×6	2×6	2×6	2×6	2×6	2×6	2×6	_	-
DESCRIPTION OF FEEDER	INCOMING FROM 110VAC UPS (INVERTER)	DCS SYSTEM & MARSHALING PANEL	DCS SYSTEM& MARSHALING PANEL (Redundant)	ESD SYSTEM& MARSHALING PANEL		OPERATOR WORKSTATION MARSHALING PANEL	DCS ENGINEERING WORKSTATION	ESD ENGINEERING WORKSTATION	PRINTERS	TO 24 VDC CONVERTOR	SPARE	SPARE

- 1- MANUAL BYPASS SWITCH SHALL BE CONSIDERED MAKE BEFORE BREAK TYPE.
- 2- THE OVERALL ALARM/FAULT SIGNAL SHALL BE SENT TO PROCESS CONTROL SYSTEM (PCS) PANEL BY DRY CONTACT.
- 3- OUTPUT FEEDERS TO PCS PANEL SHALL BE CONSIDERED DOUBLE AND SEPARATE.
- 4- AC STABILIZER SHALL BE CONSIDERED SERVO CONTROL TYPE.
  5- UPS SHALL BE CONSIDERED 12 PULSE.
- 6- CABLE SIZES SHALL BE CONSIDERED AFTER FINALIZING
  "ELECTRICAL POWER & CONTROL CABLE LIST EXTENSION OF
  BINAK B/C MANIFOLD"DOC. NO"BK-W007S-PEDCO-110-EL-LI-0002"
- 7- THIS SINGLE LINE DIAGRAM IS VALID FOR 110 VAC UPS.
- 8- ALL DEVICES SHALL BE SIZED BY VENDOR.
- 9- INTERLOCKS WILL BE PROVIDED TO INHIBIT BATTERY BOOST CHARGE
  16- BATERY ROOM VENTILATION 18, OUT-OP SERVICE.
  10- INTERLOCKS WILL BE PROVIDED TO ACTIVE BATTERY ROOM VENTILATION
  WHEN UPS IS ON BATTERY BOOST CHARGE MODE.
- WHEN UPS IS ON BATTERY BOOST CHARGE MODE.

  11—ADTOMATIC—BATTERY ISSUEATION—FACHLITY SHALL BE—PROVIDED—FOR INCOMING MCCB OF BATTERY BANK SHALL BE OPEN WHEN F&G SYSTEM SEND BATTERY INSULATION SIGNAL TO THE UPS.

  12—AN EARTH FAULT MONITORING SHALL BE CONSIDERED FOR EVERY 10 FEEDERS FOR EASY OF FINDING FAULTY BRANCH.

  13—METERING AND PROTECTION SYSTEM SHALL BE COMPLETED BASED ON AC UPS SPECIFICATION AND DETAILED INFORMATION SHALL BE INDICATED ON VENDOR DRAWING.

- 14- THE BODY OF PANELS SHALL BE EARTHED DIRECTLY FROM TWO POINT
- 15— SINCE 1.5 KW OF 110 VAC UPS WILL SUPPLY 24 VDC EXISTING MARSHALLING SYSTEM, THEREFORE A CONVERTOR 110 VAC TO 24 VDC SHALL BE CONSIDERED BY VENDOR ON DISTRIBUTION—RANGE OF UPS.

  6— AT THE BID STAGE, VENDOR SHALL CONSIDER IF IT IS POSSIBLE TO CONNECT THE 1.5 KW DEMAND OF 24 VDC EXISTING TO DC LINK OR NOT. IF YES, THE NOTE 15 WILL BE DELETED & ONLY CONVERTOR 110 VDC TO 24 VDC IS SUFFICIENT.
- 17- TWO FEEDER FROM CONVERTOR 110 VAC TO 24 VDC SHALL BE CONSIDERED FOR EXISTING CONTROL SYSTEM BY VENDOR.

₽-	SHUNT
<b>\$</b>	INVERTER
**************************************	CHARGER
嵙	AC STABILIZER
XX.	STATIC SWITCH
丰	BATTERY
±, p,	SWITCH FUSE
~\ <sup>*</sup>	MOULDED CASE CIRCUIT BREAKER
*	MINIATURE CIRCUIT BREAKER
<u></u>	FUSE
¥	DIODE
þ	CONTRACTOR
]	CABLE
1	ELECTRICAL CONNECTION
<b>(A)</b>	AMMETER
(V)	VOLTMETER
φ-	CURRENT TRANSFORMER
64	EARTH FAULT RELAY
59	OVER VOLTAGE RELAY
27	UNDER VOLTAGE RELAY
8	TRANSFORMER
(Hz)	FREQUENCY METER (DIGITAL TYPE)
∦s.c	SURGE ARRESTER
RE	RADIO FREQUENCY INTERFACE

REFERENCE DRAWING	DRG. No.
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DATA SHEETS FOR UPS EXTENSION OF BINAK B/C MANIFOLD	BK-W007S-PEDCO-110-EL-DT-0002

D05	OCT.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD		***	*******	**,**	***.****	**,**	***.***
D01	SEP.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	**,**	REV.	DESCRIPTION	BY	DATE	BY	DATE
D00	MAR.2022	IFC	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	**,**	KEV.	DESCRIPTION	CHE	CKED	REV.	APPR.
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خبز چنوب میباشد.					

BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES
W007S WHF & EXTENSION OF BINAK B/C PROJECT NO.: 971020

EPC CONTRACTOR HIRGAN HIRGAN ENERGY - DESIGN & INSPECTIO

PROJECT NAME:

0 PEDCO

EPD/EPC CONTRACTOR (GC):

PETROIRAN DEVELOPMENT COMPANY

BINAK OILFIELD DEVELOPMENT SUB-SURFACE WORK PACKAGES W007S WHF & EXTENSION OF BINAK B/C

DATE SCALE DRAWING BY CHECKED BY PROJECT ENG. NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED APPROVED FOR CONSTRUCTION BY: DATE:

THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS

(VENDOR TITLE BLOCK)\*\*

UPS SINGLE LINE DIAGRAM - EXTENSION OF BINAK B/C MANIFOLD SCALE SIZE DRAWING NO.

NTS A3

SHEET NO. REV. BUDGET REF. LOCATION SIZE CLASS SERIAL NO. SHEET REVISION BK-W007S-PEDCO-110-EL-SL-0002 04 0F 04 D02 053-073-9184 F 2 P 708028 04 0F 04 D02