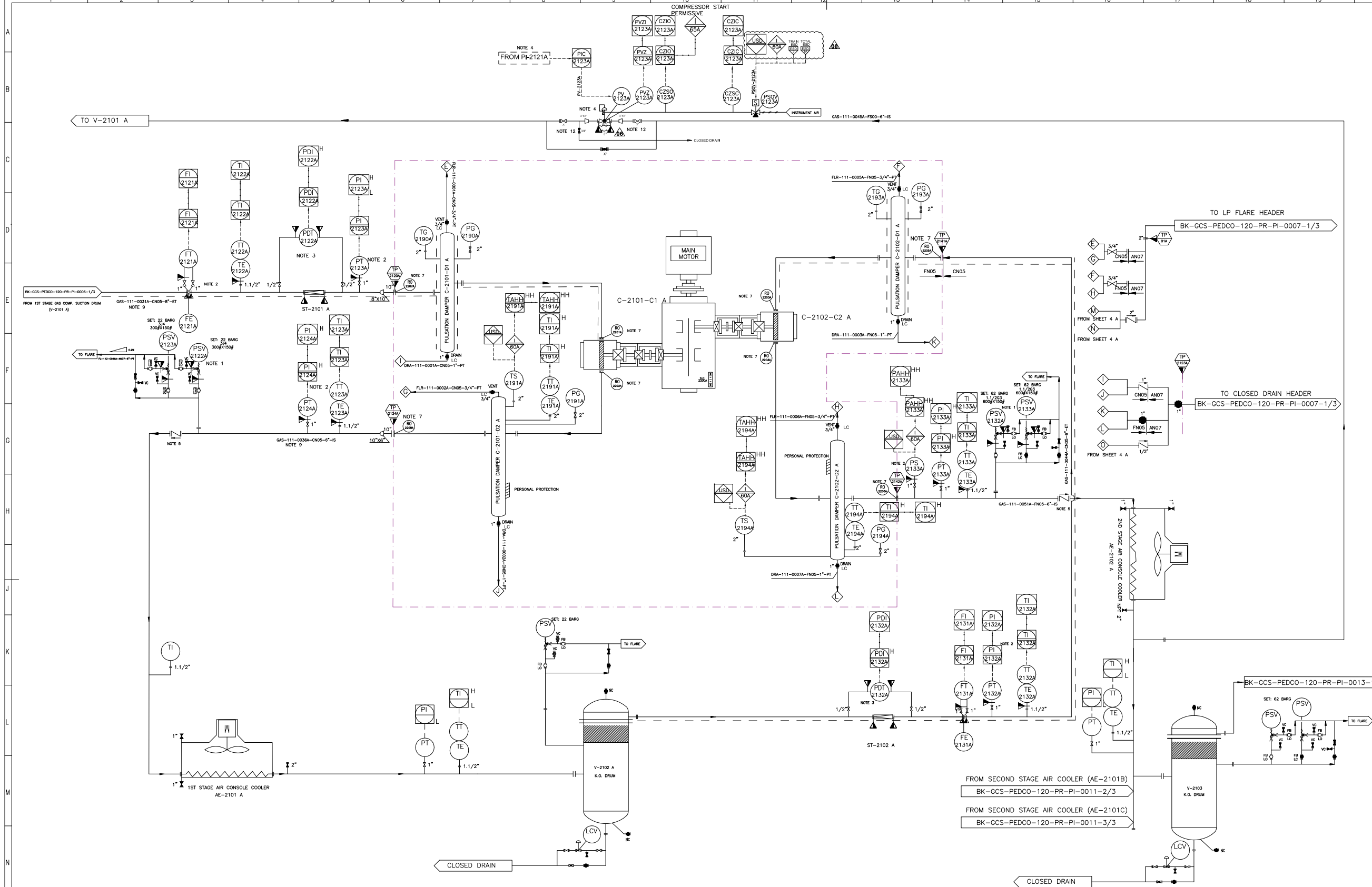




REFERENCE DRAWINGS				DWG. NUMBER
1	MECHANICAL DATA SHEETS FOR GAS COMPRESSORS PACKAGES			BK-GCS-PEDCO-120-PR-PI-0001_006
2	1st STAGE GAS COMPRESSION SUCTION DRUM			BK-GCS-PEDCO-120-PR-PI-0006_006
3	1st STAGE GAS COMPRESSION COMPRESSORS			BK-GCS-PEDCO-120-PR-PI-0007_006
4	1st STAGE GAS COMPRESSION AIR COOLERS			BK-GCS-PEDCO-120-PR-PI-0008_006
5	2nd STAGE GAS COMPRESSION SUCTION DRUMS			BK-GCS-PEDCO-120-PR-PI-0009_006
6	2nd STAGE GAS COMPRESSION COMPRESSORS			BK-GCS-PEDCO-120-PR-PI-0010_006
7	2nd STAGE GAS COMPRESSION AIR COOLERS			BK-GCS-PEDCO-120-PR-PI-0011_006
8	2nd STAGE GAS COMPRESSION DISCHARGE DRUM			BK-GCS-PEDCO-120-PR-PI-0012_006
9	PIPING MATERIAL SPECIFICATION			
10	10. All TAG INSTRUMENTS TAG NUMBER ARE START WITH PREFIX C			BK-GCS-PEDCO-120-PR-PI-0001-001

- Note :**
1. PSV WILL BE SUPPLIED LOOSE.
 2. INSTRUMENTS WILL BE SUPPLIED LOOSE ON CLIENT LINE.
 3. THE FILTER AND PDT WILL BE SUPPLIED LOOSE ON CLIENT LINE.
 4. SPILL BACK VALVE WILL BE SUPPLIED BY VENDOR AS LOOSE ITEM. PI-2121A WILL BE SENT FROM DCS TO UCP BY CLIENT.
 5. NON SLAM TYPE CHECK VALVE.
 6. All INSTRUMENTS TAG NUMBER ARE START WITH PREFIX C.
 7. THE RO REQUIREMENT WILL BE FINALIZED AFTER PULSATION STUDY.
 8. DELETED.
 9. THE LINE SHALL BE EXPANDED TO THE B.L. FLANGE SIZE AND BE ACCORDING TO THE B.L. PIPING CLASS.
 10. All hook up material for instrument of Havayar battery limit will be supplied by Havayar.
 11. Instrument on skid tag number will be started with C-xxxx.
 12. THE SIZE OF PV-2123 A IS 3". THE SIZE OF SPILL-BACK LINE HAS BEEN ADDED IN PROJECT P&ID.

Legend :

C-2101-C1 A	
1ST STAGE COMPRESSOR CYLINDER	
INLET PRESSURE (barg)	4.8
OUTLET PRESSURE (barg)	18
RATED CAPACITY (kg/h)	8935.5
POWER (kW)	441.1
DESIGN TEMPERATURE (°C)	180
DESIGN PRESSURE (BARG)	24.5

C-2102-C2 A	
2ND STAGE COMPRESSOR CYLINDER	
INLET PRESSURE (barg)	17
OUTLET PRESSURE (barg)	54.9
RATED CAPACITY (kg/h)	8935.5
POWER (kW)	463
DESIGN TEMPERATURE (°C)	180
DESIGN PRESSURE (BARG)	24.5

C-2101-D1 A	
1ST STAGE SUCTION SNUBBER	
DESIGN PRESSURE (barg)	24.5
DESIGN TEMPERATURE (°C)	180
INSULATION	YES
DIMENSION (TL.TL * ID) (MM)	2320*834
NOMINAL CAPACITY (M3)	1.5

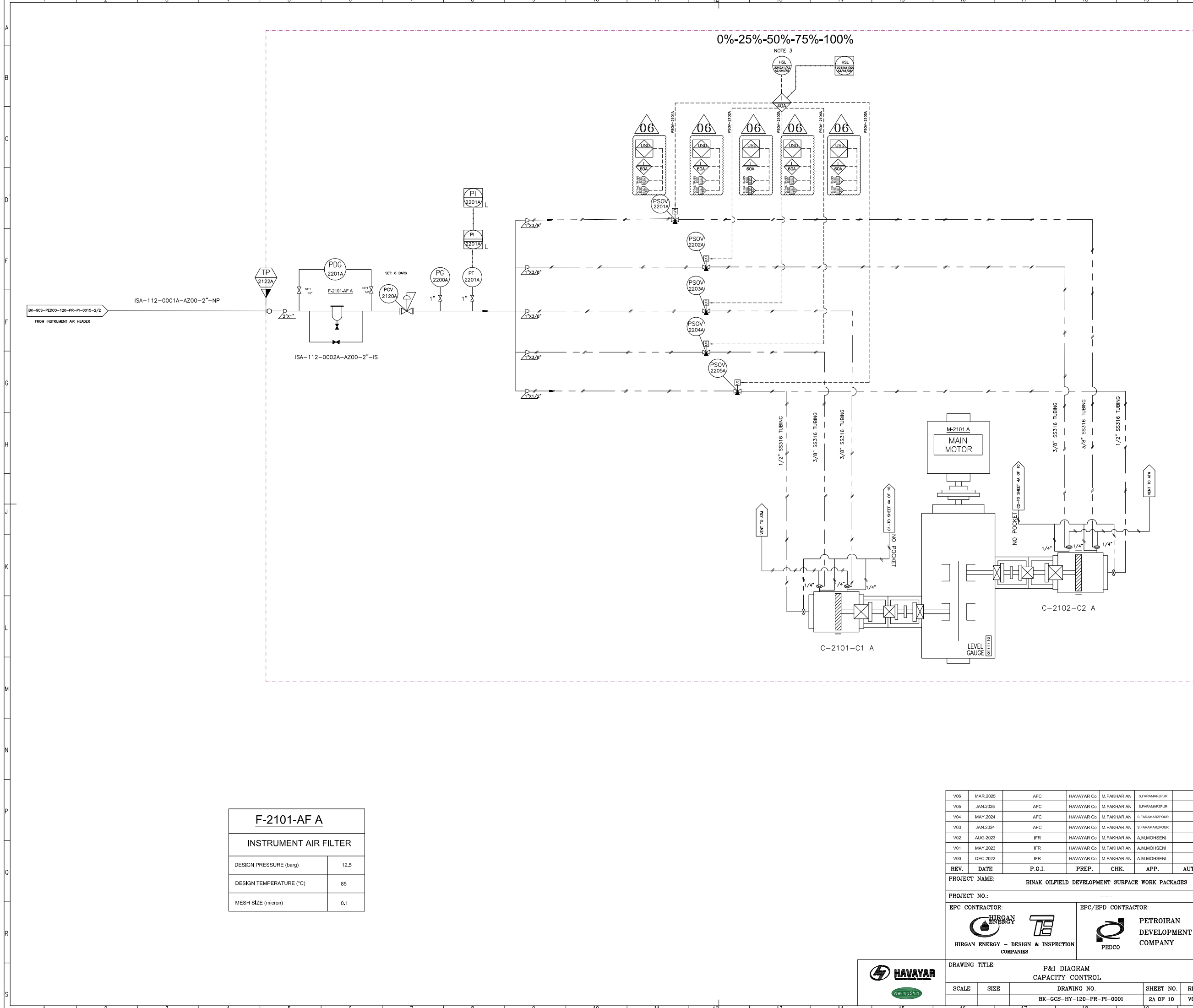
C-2101-D2 A	
1ST STAGE DISCHARGE SNUBBER	
DESIGN PRESSURE (barg)	24.5
DESIGN TEMPERATURE (°C)	180
INSULATION	YES
DIMENSION (TL.TL * ID) (MM)	2120*783
NOMINAL CAPACITY (M3)	1.2

C-2102-D1 A	
2ND STAGE SUCTION SNUBBER	
DESIGN PRESSURE (barg)	62
DESIGN TEMPERATURE (°C)	180
INSULATION	YES
DIMENSION (TL.TL * ID) (MM)	1810*661
NOMINAL CAPACITY (M3)	0.74

C-2102-D2 A	
2ND STAGE DISCHARGE SNUBBER	
DESIGN PRESSURE (barg)	62
DESIGN TEMPERATURE (°C)	180
INSULATION	YES
DIMENSION (TL.TL * ID) (MM)	1760*661
NOMINAL CAPACITY (M3)	0.71

	V06	MAR.2025		AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
	V05	JAN.2025		AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
	V04	MAY.2024		AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
	V03	JAN.2024		AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
	V02	AUG.2023		IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
	V01	MAY.2023		IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
	V00	DEC.2022		IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
	REV.	DATE		P.O.I.	PREP.	CHK.	APP.	AUT.
	PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES							
	PROJECT NO.:				---			
	EPC CONTRACTOR:				EPC/EPD CONTRACTOR:			
	 HIRGAN ENERGY – DESIGN & INSPECTION				  PETROIRAN DEVELOPMENT COMPANY			





F-2101-AF A	
INSTRUMENT AIR FILTER	
DESIGN PRESSURE (barg)	12,5
DESIGN TEMPERATURE (°C)	85
MESH SIZE (micron)	0,1

Note :
1. DELETED.
2. THE UNLOADERS ARE AIR TO LOAD TYPE.
3. CAPACITY CONTROL WILL BE PERFORMED FROM UCP.

Legend :

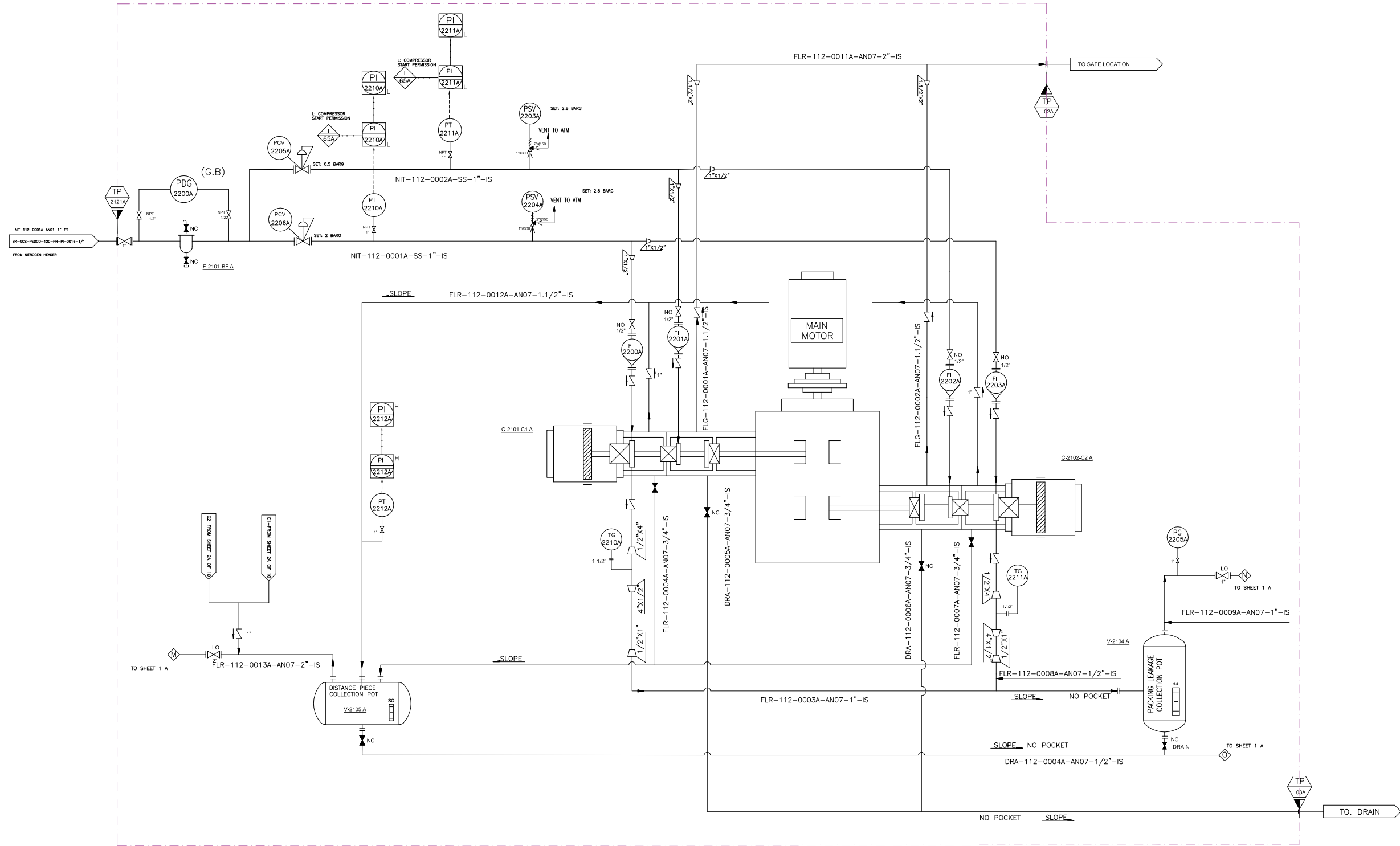
V06	MAR.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V05	JAN.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V04	MAY.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V03	JAN.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V01	MAY.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES					
PROJECT NO.: ---					
EPC CONTRACTOR:  HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			EPC/EPD CONTRACTOR:  PETROIRAN DEVELOPMENT COMPANY		
DRAWING TITLE: P&I DIAGRAM CAPACITY CONTROL					
SCALE	SIZE	DRAWING NO.		SHEET NO.	REV
		BK-GCS-HY-120-PR-PI-0001		2A OF 10	V06

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV.	APPR.

BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES						
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENGINEER		
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED						
APPROVED FOR CONSTRUCTION			BY:	DATE:		
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION





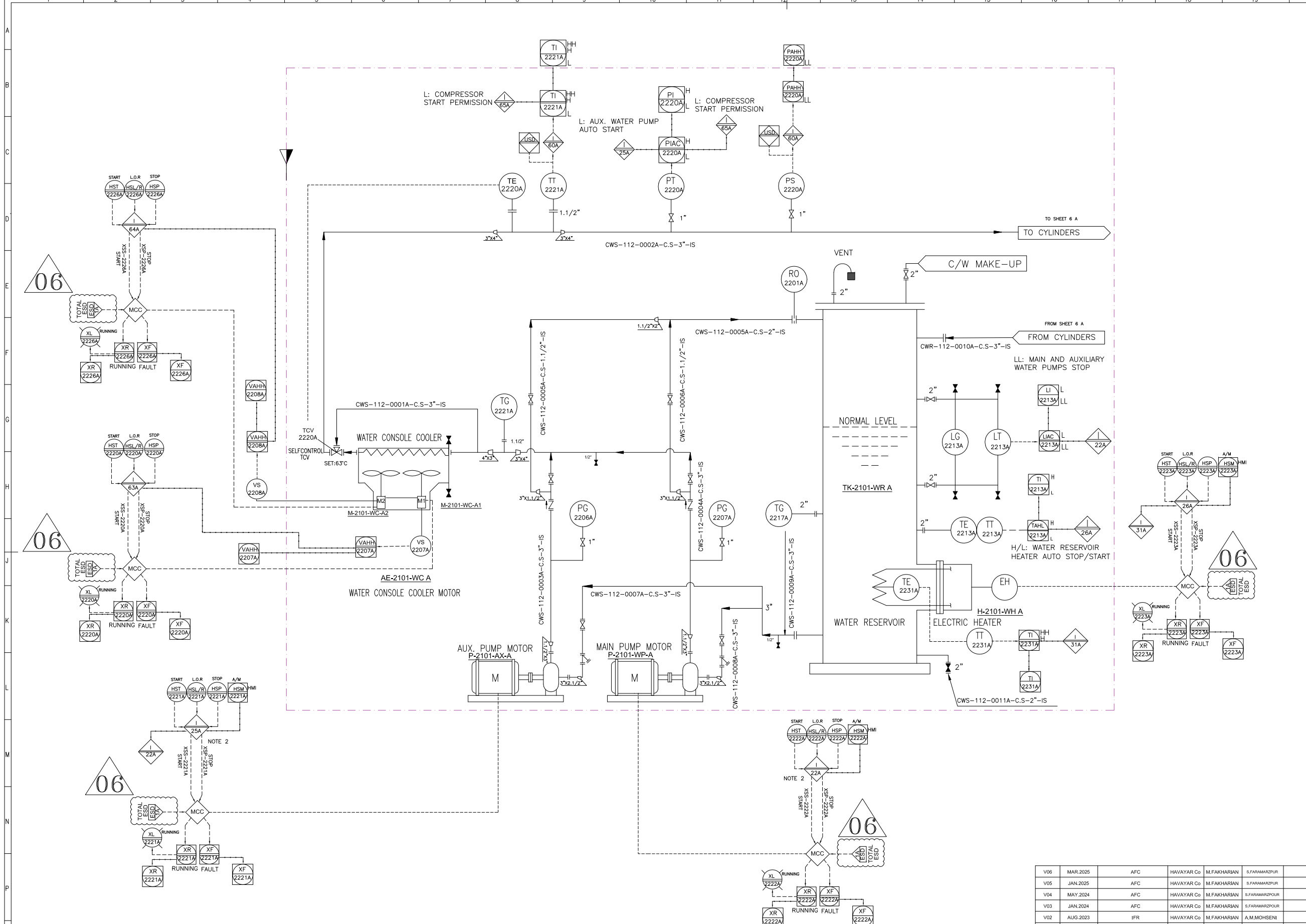
V-2104 A	
PACKING LEAKAGE COLLECTING POT	
DESIGN PRESSURE (barg)	5
DESIGN TEMPERATURE (°C)	85
DIMENTION (TL*TL*OD) (MM)	500*273
NOMINAL CAPACITY (M3)	0,03

F-2101-BF A	
BUFFER GAS FILTER	
DESIGN PRESSURE (barg)	10
DESIGN TEMPERATURE (°C)	85
OPERATING PRESSURE (barg)	7.5
MATERIAL	S.S
MESH SIZE (micron)	0,1

V-2105 A	
DISTANCE PIECE COLLECTING POT	
DESIGN PRESSURE (barg)	5
DESIGN TEMPERATURE (°C)	85
DIMENTION (TL*TL*OD) (MM)	500*273
NOMINAL CAPACITY (M3)	0,03

V06	MAR.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V05	JAN.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V04	MAY.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPOUR	
V03	JAN.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPOUR	
V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V01	MAY.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.
PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES						
PROJECT NO.: ---						
EPC CONTRACTOR:			EPC/EPD CONTRACTOR:			
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY			
DRAWING TITLE: P&I DIAGRAM N2 PURGING SYSTEM						
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.
		BK-GCS-HY-120-PR-PI-0001			4A OF 10	V06

REFERENCE DRAWINGS		DWG. NUMBER	
1			
Note :			
Legend :			



AE-2101-WC A	
WATER COOLER	
TYPE	AIR COOLER
DESIGN PRESSURE (barg)	8
OPERATING PRESSURE (barg)	3
DESIGN TEMPERATURE (°C)	85
OPERATING TEMPERATURE (°C)	70/63

P-2101-WP A	
MAIN WATER PUMP	
TYPE	CENTRIFUGAL
RATED POWER (KW)	5,5
OPERATING CAPACITY (TON/H)	15,3
RATED HEAD (M)	40

P-2101-AX A	
AUX. WATER PUMP	
TYPE	CENTRIFUGAL
RATED POWER (KW)	5,5
OPERATING CAPACITY (TON/H)	15,3
RATED HEAD (M)	40

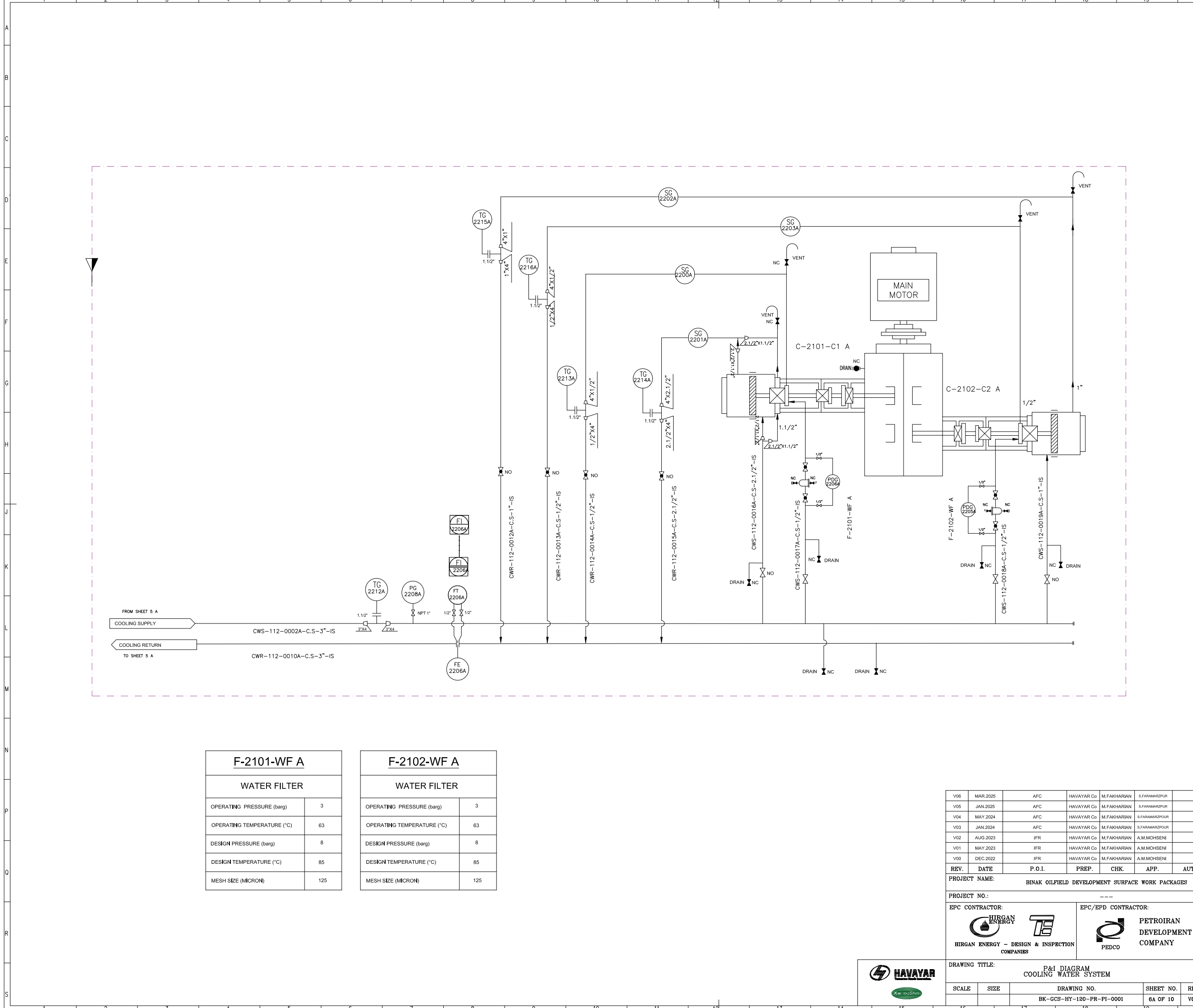
H-2101-WH A	
WATER HEATER	
TYPE	ELECTRICAL
RATED POWER (KW)	13,5

TK-2101-WR A	
WATER RESERVOIR	
DESIGN PRESSURE (barg)	3,5
DESIGN TEMPERATURE (°C)	85
DIMENTION (TL*TL*OD) (MM)	1600*1312
NOMINAL CAPACITY (M3)	2,7
INSULATION	YES

V06	MAR.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V05	JAN.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V04	MAY.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V03	JAN.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSSENI	
V01	MAY.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSSENI	
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSSENI	
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.

PROJECT NAME:				BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES	
PROJECT NO.:				---	
EPC CONTRACTOR:			EPC/EPD CONTRACTOR:		
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY		
DRAWING TITLE:					
P&I DIAGRAM PLAN D COOLING WATER SYSTEM					
SCALE	SIZE	DRAWING NO.		SHEET NO.	REV.
		BK-GCS-HY-120-PR-PI-0001		5A OF 10	VO

REFERENCE DRAWINGS				DWG. NUMBER	
Note : 1. DELETED. 2. I-22 INTERLOCK HAS PRIORITY OVER I-25					
Legend :					



F-2101-WF A	
WATER FILTER	
OPERATING PRESSURE (barg)	3
OPERATING TEMPERATURE (°C)	63
DESIGN PRESSURE (barg)	8
DESIGN TEMPERATURE (°C)	85
MESH SIZE (MICRON)	125

F-2102-WF A	
WATER FILTER	
OPERATING PRESSURE (barg)	3
OPERATING TEMPERATURE (°C)	63
DESIGN PRESSURE (barg)	8
DESIGN TEMPERATURE (°C)	85
MESH SIZE (MICRON)	125

V06	MAR.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V05	JAN.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V04	MAY.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V03	JAN.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V01	MAY.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.
PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES						
PROJECT NO.: ---						
EPC CONTRACTOR:			EPC/EPD CONTRACTOR:			
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY			
DRAWING TITLE: P&I DIAGRAM COOLING WATER SYSTEM						
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.
		BK-GCS-HY-120-PR-PI-0001			6A OF 10	V06

REFERENCE DRAWINGS

1.P&ID - 1ST STAGE COMPRESSION COMPRESSORS
2.P&ID - 2ND STAGE COMPRESSION COMPRESSORS

DWG. NUMBER
BK-GCS-PEDCO-120-PR-PI-0007_002
BK-GCS-PEDCO-120-PR-PI-0010_002

Note :

Legend :

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	



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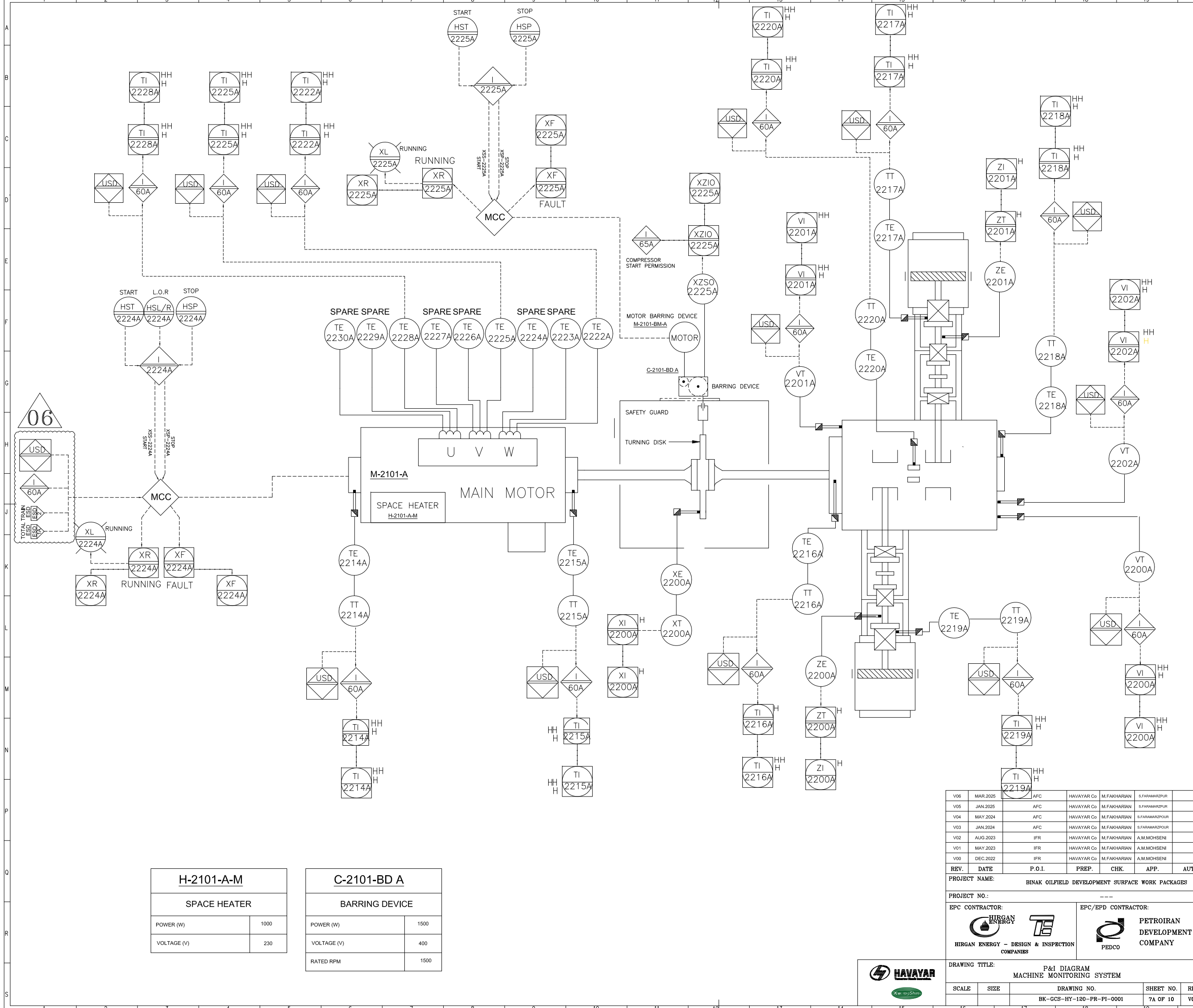
BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES

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





H-2101-A-M	
SPACE HEATER	
POWER (W)	1000
VOLTAGE (V)	230

C-2101-BD A	
BARRING DEVICE	
POWER (W)	1500
VOLTAGE (V)	400
RATED RPM	1500

V06	MAR.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V05	JAN.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V04	MAY.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V03	JAN.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V01	MAY.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.

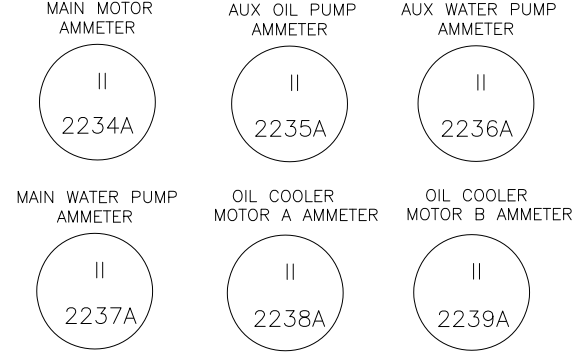
PROJECT NAME:		BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES	
PROJECT NO.:		---	
EPC CONTRACTOR:		EPC/EPD CONTRACTOR:	
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES		 PETROIRAN DEVELOPMENT COMPANY	

REFERENCE DRAWINGS				DWG. NUMBER			
Note :							
Legend :							

LCP-2101A



AMMETER GAUGE BOARD



REFERENCE DRAWINGS

DWG. NUMBER

Note :

Signals of LCP will be connected to UCP.

Legend :

V06	MAR.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V05	JAN.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V04	MAY.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V03	JAN.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V01	MAY.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES

PROJECT NO.: ---

EPC CONTRACTOR:	EPC/EPD CONTRACTOR:
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES	 PETROIRAN DEVELOPMENT COMPANY

DRAWING TITLE: P&I DIAGRAM
LOCAL CONTROL STATION

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
		BK-GCS-HY-120-PR-P1-0001	8A OF 10	V06

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	

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BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES

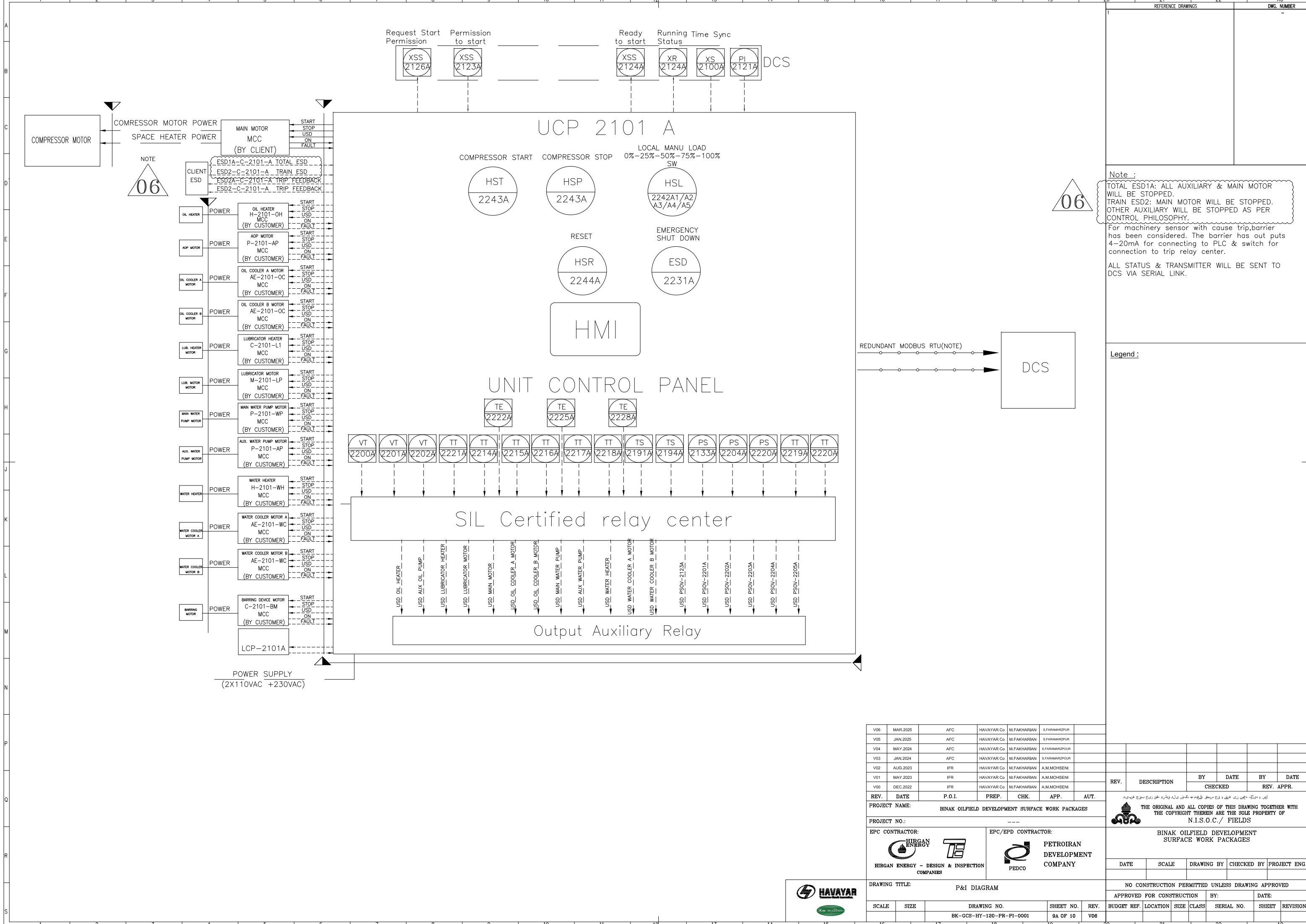
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION	BY:	DATE:

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION





Note :

TOTAL ESD1A: ALL AUXILIARY & MAIN MOTOR WILL BE STOPPED.
TRAIN ESD2: MAIN MOTOR WILL BE STOPPED.
OTHER AUXILIARY WILL BE STOPPED AS PER CONTROL PHILOSOPHY.

For machinery sensor with cause trip,barrier has been considered. The barrier has out puts 4-20mA for connecting to PLC & switch for connection to trip relay center.

ALL STATUS & TRANSMITTER WILL BE SENT TO DCS VIA SERIAL LINK.

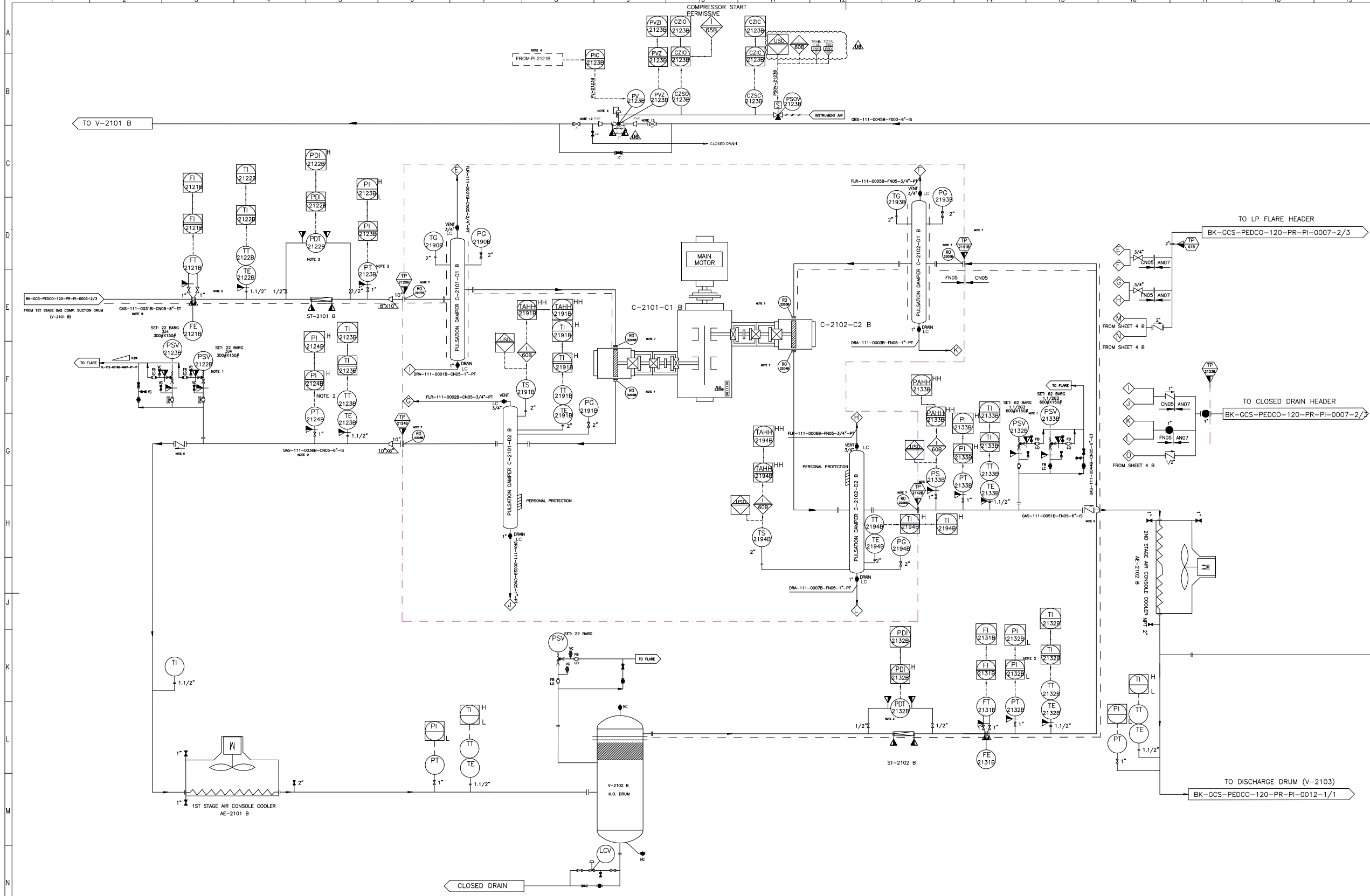
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REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.
V06	MAR.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V05	JAN.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V04	MAY.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V03	JAN.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V01	MAY.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	

PROJECT NAME: BINAQ OILFIELD DEVELOPMENT SURFACE WORK PACKAGES											
PROJECT NO.: -----											
EPC CONTRACTOR:					EPC/EPD CONTRACTOR:						
 											
HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES					PEDCO						
DRAWING TITLE: P&I DIAGRAM											
SCALE		SIZE		DRAWING NO.				SHEET NO.		REV.	
				BK-GCS-HY-120-PR-P1-0001				9A OF 10		V06	

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.





C-2101-C1 B	
1ST STAGE COMPRESSOR CYLINDER	
INLET PRESSURE (barg)	4.8
OUTLET PRESSURE (barg)	18
RATED CAPACITY (kg/h)	8935.5
POWER (kW)	441.1
DESIGN TEMPERATURE (°C)	180
DESIGN PRESSURE (BARG)	24.5

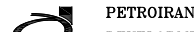
C-2102-C2 B	
2ND STAGE COMPRESSOR CYLINDER	
INLET PRESSURE (barg)	17
OUTLET PRESSURE (barg)	54.9
RATED CAPACITY (kg/h)	8935.5
POWER (kW)	463
DESIGN TEMPERATURE (°C)	180
DESIGN PRESSURE (BARG)	24.5

C-2101-D1 B	
1ST STAGE SUCTION SNUBBER	
DESIGN PRESSURE (barg)	24.5
DESIGN TEMPERATURE (°C)	180
INSULATION	YES
DIMENSION (TL.TL * ID) (MM)	2320*834
NOMINAL CAPACITY (M3)	1.5

C-2101-D2 B	
1ST STAGE DISCHARGE SNUBBER	
DESIGN PRESSURE (barg)	24.5
DESIGN TEMPERATURE (°C)	180
INSULATION	YES
DIMENSION (TL.TL * ID) (MM)	2120*783
NOMINAL CAPACITY (M3)	1.2

C-2102-D1 B	
2ND STAGE SUCTION SNUBBER	
DESIGN PRESSURE (barg)	62
DESIGN TEMPERATURE (°C)	180
INSULATION	YES
DIMENSION (TL.TL * ID) (MM)	1810*661
NOMINAL CAPACITY (M3)	0.74

C-2102-D2 B	
2ND STAGE DISCHARGE SNUBBER	
DESIGN PRESSURE (barg)	62
DESIGN TEMPERATURE (°C)	180
INSULATION	YES
DIMENSION (TL.TL * ID) (MM)	1760*661
NOMINAL CAPACITY (M3)	0.71

V06	MAR.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V05	JAN.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V04	MAY.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V03	JAN.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V01	MAY.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.
PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES						
PROJECT NO.: ---						
EPC CONTRACTOR:			EPC/EPD CONTRACTOR:			
						

REFERENCE DRAWINGS

4. MECHANICAL DATA SHEETS FOR GAS COMPRESSORS PACKAGES
21st STAGE GAS COMPRESSION SUCTION DRUM
31st STAGE GAS COMPRESSION COMPRESSORS
41st STAGE GAS COMPRESSION AIR COOLERS
52nd STAGE GAS COMPRESSION SUCTION DRUMS
62nd STAGE GAS COMPRESSION COMPRESSORS
72nd STAGE GAS COMPRESSION AIR COOLERS
82nd STAGE GAS COMPRESSION DISCHARGE DRUM

DWG. NUMBER

BK-GCS-PEDCO-120-PR-PI-0001_006
BK-GCS-PEDCO-120-PR-PI-0006_006
BK-GCS-PEDCO-120-PR-PI-0007_006
BK-GCS-PEDCO-120-PR-PI-0008_006
BK-GCS-PEDCO-120-PR-PI-0009_006
BK-GCS-PEDCO-120-PR-PI-0010_006
BK-GCS-PEDCO-120-PR-PI-0011_006
BK-GCS-PEDCO-120-PR-PI-0012_006

Note :

1. PSV WILL BE SUPPLIED LOOSE.
2. INSTRUMENTS WILL BE SUPPLIED LOOSE ON CLIENT LINE.
3. THE FILTER AND PDT WILL BE SUPPLIED LOOSE ON CLIENT LINE.
4. SPILL BACK VALVE WILL BE SUPPLIED BY VENDOR AS LOOSE ITEM. PI-2121B WILL BE SENT FROM DCS TO UCP BY CLIENT.
5. NON SLAM TYPE CHECK VALVE.
6. ALL INSTRUMENTS TAG NUMBER ARE START WITH PREFIX C
7. THE RO REQUIREMENT WILL BE FINALIZED AFTER PULSATION STUDY.
8. DELETED.
9. THE LINE SHALL BE EXPANDED TO THE B.L. FLANGE SIZE AND BE ACCORDING TO THE B.L. PIPING CLASS.
10. All hook up material for instrument of Havayar battery limit will be supplied by Havayar.
11. Instrument on skid tag number will be started with C-xxxx.
12. THE SIZE OF PV-2123 B IS 3". THE SIZE OF SPILL-BACK LINE HAS BEEN ADDED IN PROJECT P&ID.

Legend :

REV.

DESCRIPTION

BY

DATE

BY

DATE

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BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES

DATE

SCALE

DRAWING BY

CHECKED BY

PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION

BY:

DATE:

BUDGET REF.

LOCATION

SIZE

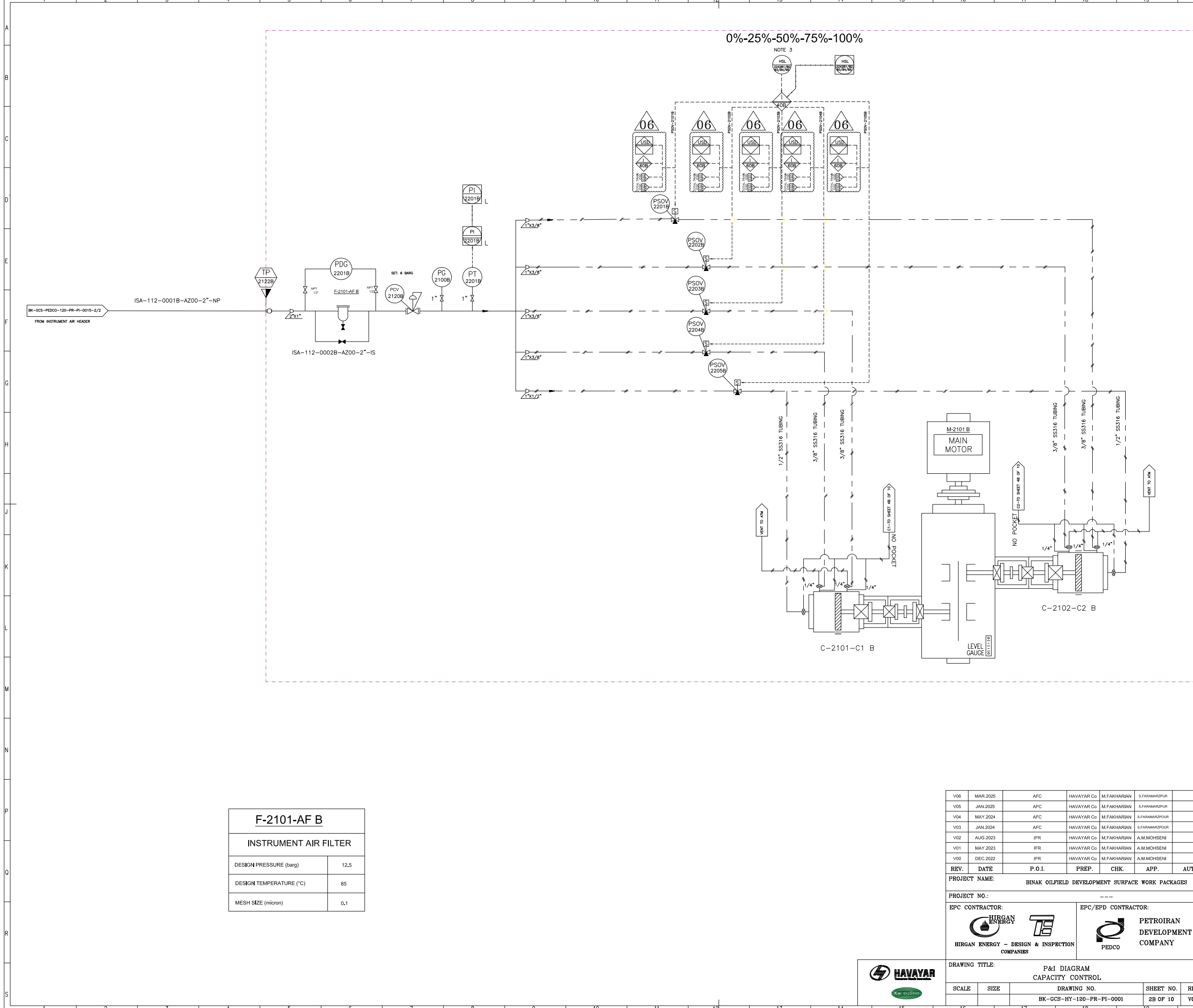
CLASS

SERIAL NO.

SHEET

REVISION



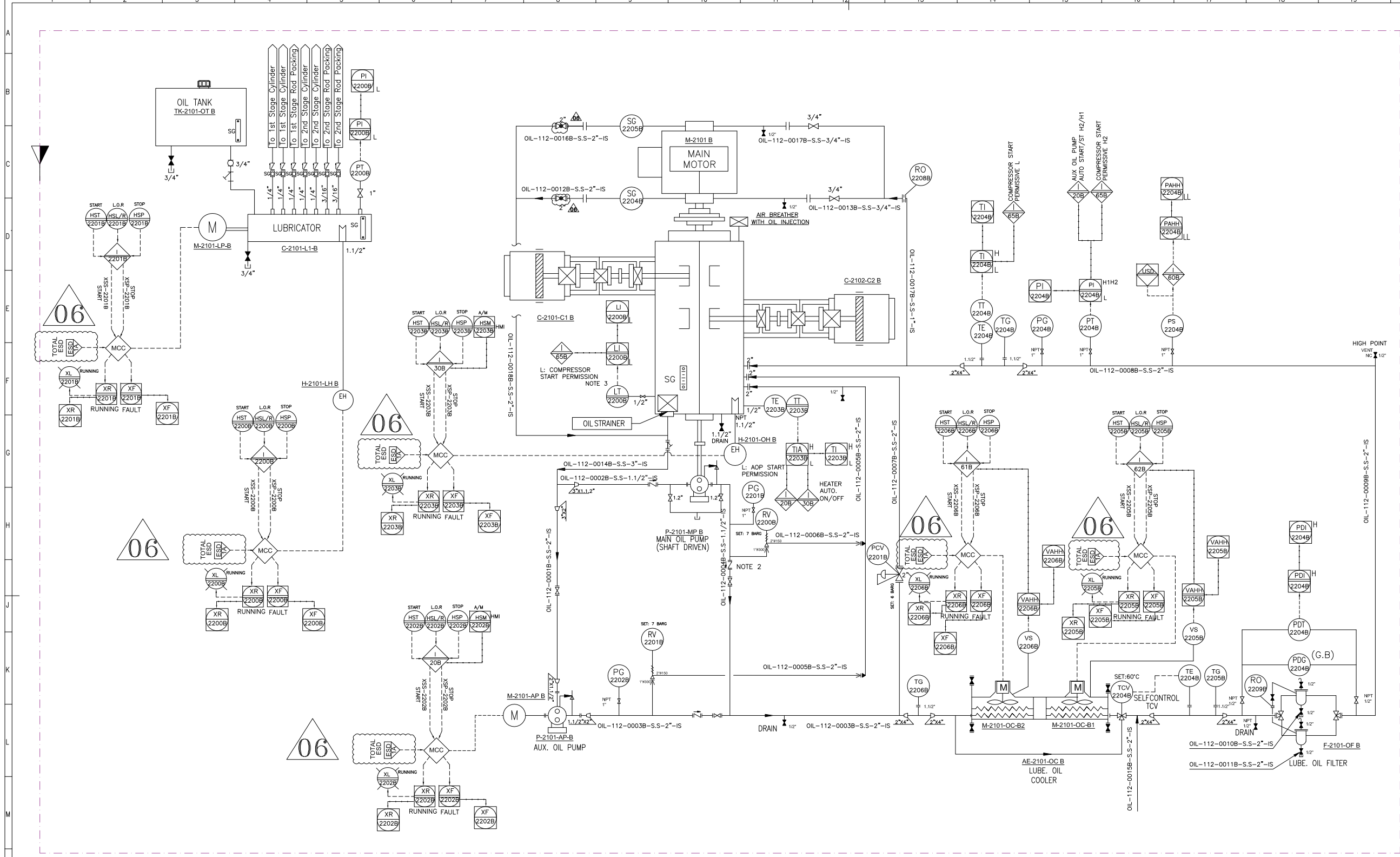


F-2101-AF B	
INSTRUMENT AIR FILTER	
DESIGN PRESSURE (barg)	12.5
DESIGN TEMPERATURE (°C)	85
MESH SIZE (micron)	0.1

V06	MAR.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V05	JAN.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V04	MAY.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V03	JAN.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V01	MAY.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.
PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES						
PROJECT NO: ---						
EPC CONTRACTOR:			EPC/EPD CONTRACTOR:			
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY			
DRAWING TITLE: P&I DIAGRAM CAPACITY CONTROL						
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.
		BK-GCS-HY-120-PR-PI-0001			2B OF 10	V06

REFERENCE DRAWINGS				DWG. NUMBER	
Note : 1. DELETED. 2. THE UNLOADERS ARE AIR TO LOAD TYPE. 3. CAPACITY CONTROL WILL BE PERFORMED FROM UCP.					
Legend :					





TK-2101-OT B	
OIL TANK	
INSULATION	NO
DESIGN TEMPERATURE (°C)	85
DESIGN PRESSURE (BARG)	3.5
NOMINAL CAPACITY (LIT)	80
DIMENTION (L*W*H) (MM)	

M-2101-LP B	
LUBRICATOR PUMP MOTOR	
OPERATING PRESSURE (barg)	5.5 ~ 7
RATED POWER (kW)	0.4

P-2101-MP B	
MAIN OIL PUMP	
DESIGN PRESSURE (barg)	10
RATED POWER	SHAFT DRIVEN
RATED CAPACITY (L/min)	131
MATERIAL	CAST IRON

H-2101-LH B	
LUBRICATOR HEATER	
MATERIAL	S.S.
RATED POWER (kW)	0.5

P-2101-AP B	
AUX. OIL PUMP	
DESIGN PRESSURE (barg)	10
RATED POWER (kW)	7.5
RATED CAPACITY (L/min)	131
MATERIAL	CAST IRON

H-2101-OH B	
CRANK CASE OIL HEATER	
MATERIAL	S.S
RATED POWER (kW)	1.5

F-2101-OF B	
LUBE OIL FILTER	
DESIGN PRESSURE (barg)	10
DESIGN TEMPERATURE (°C)	85
MATERIAL	S.S
MESH SIZE (MICRON)	10

AE-2101-OC B	
LUBE OIL COOLER	
TYPE	AIR COOLER
DESIGN PRESSURE (barg)	10
DESIGN TEMPERATURE (°C)	85
MATERIAL	S.S

V06	MAR.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V05	JAN.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V04	MAY.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V03	JAN.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V01	MAY.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.

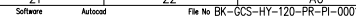
PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES				
PROJECT NO.: ---				
EPC CONTRACTOR:		EPC/EPD CONTRACTOR:		
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES		 PETROIRAN DEVELOPMENT COMPANY		
DRAWING TITLE: P&I DIAGRAM LUBRICATION SYSTEM				
SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
		BK-GCS-HY-120-PR-PI-0001	3B OF 10	V06

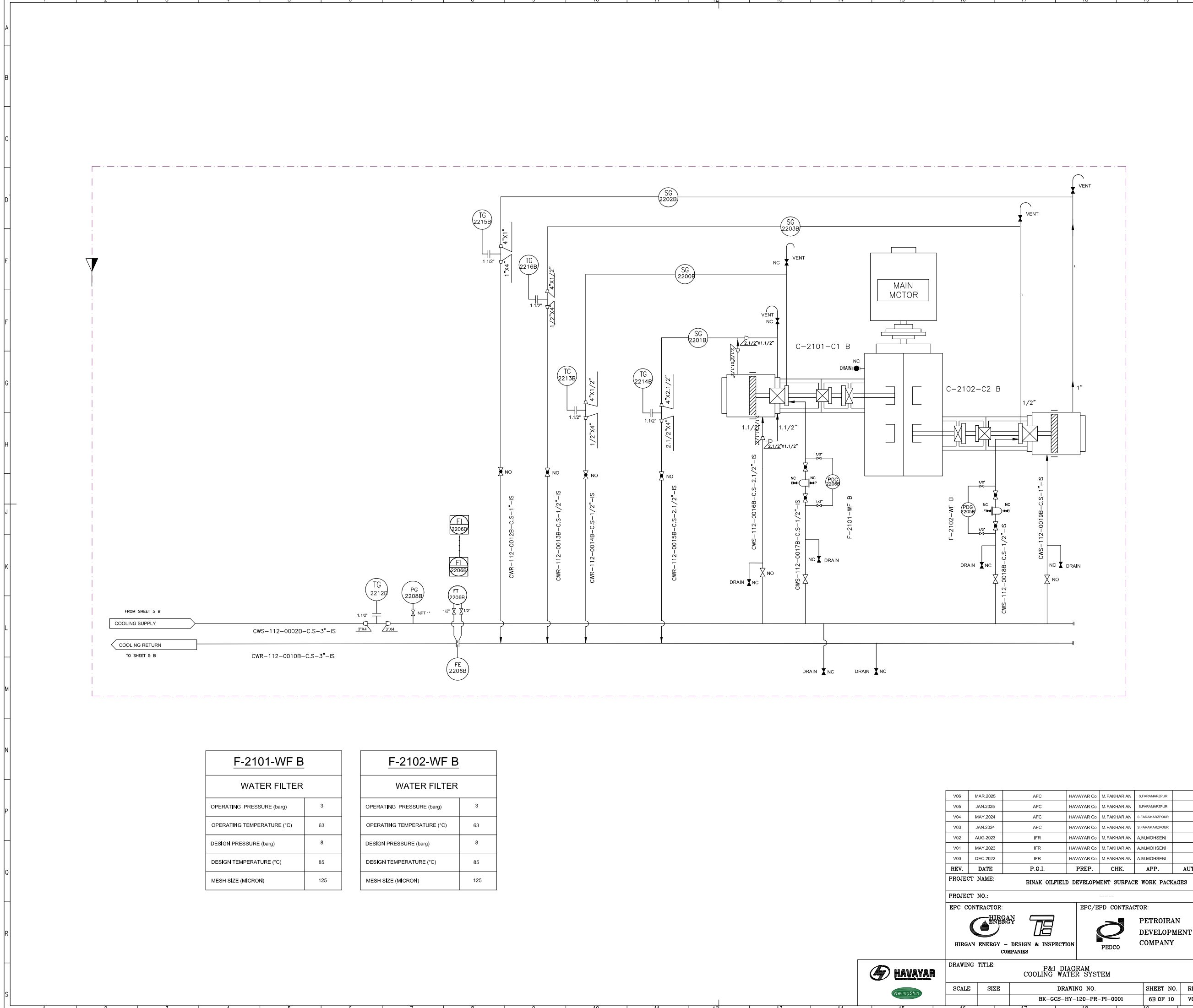
Note :
1. DELETED.
2. DRILLED TYPE CHECK VALVE.
3. DIFFERENTIAL PRESSURE TYPE.

Legend :

این و هر یک از همین روی حقوق معنوی و مادی را برای همیشه بقدری از خود سلب می‌نماید					
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BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES					
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







F-2101-WF B	
WATER FILTER	
OPERATING PRESSURE (barg)	3
OPERATING TEMPERATURE (°C)	63
DESIGN PRESSURE (barg)	8
DESIGN TEMPERATURE (°C)	85
MESH SIZE (MICRON)	125

F-2102-WF B	
WATER FILTER	
OPERATING PRESSURE (barg)	3
OPERATING TEMPERATURE (°C)	63
DESIGN PRESSURE (barg)	8
DESIGN TEMPERATURE (°C)	85
MESH SIZE (MICRON)	125

V06	MAR.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V05	JAN.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V04	MAY.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V03	JAN.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V01	MAY.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.
PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES						
PROJECT NO.: ---						
EPC CONTRACTOR:			EPC/EPD CONTRACTOR:			
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY			
DRAWING TITLE: P&I DIAGRAM COOLING WATER SYSTEM						
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.
		BK-GCS-HY-120-PR-PI-0001			6B OF 10	V06

REFERENCE DRAWINGS
1.P&ID - 1ST STAGE COMPRESSION COMPRESSORS
2.P&ID - 2ND STAGE COMPRESSION COMPRESSORS

DWG. NUMBER
BK-GCS-PEDCO-120-PR-PI-0007_002
BK-GCS-PEDCO-120-PR-PI-0010_002

Note :

Legend :

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	



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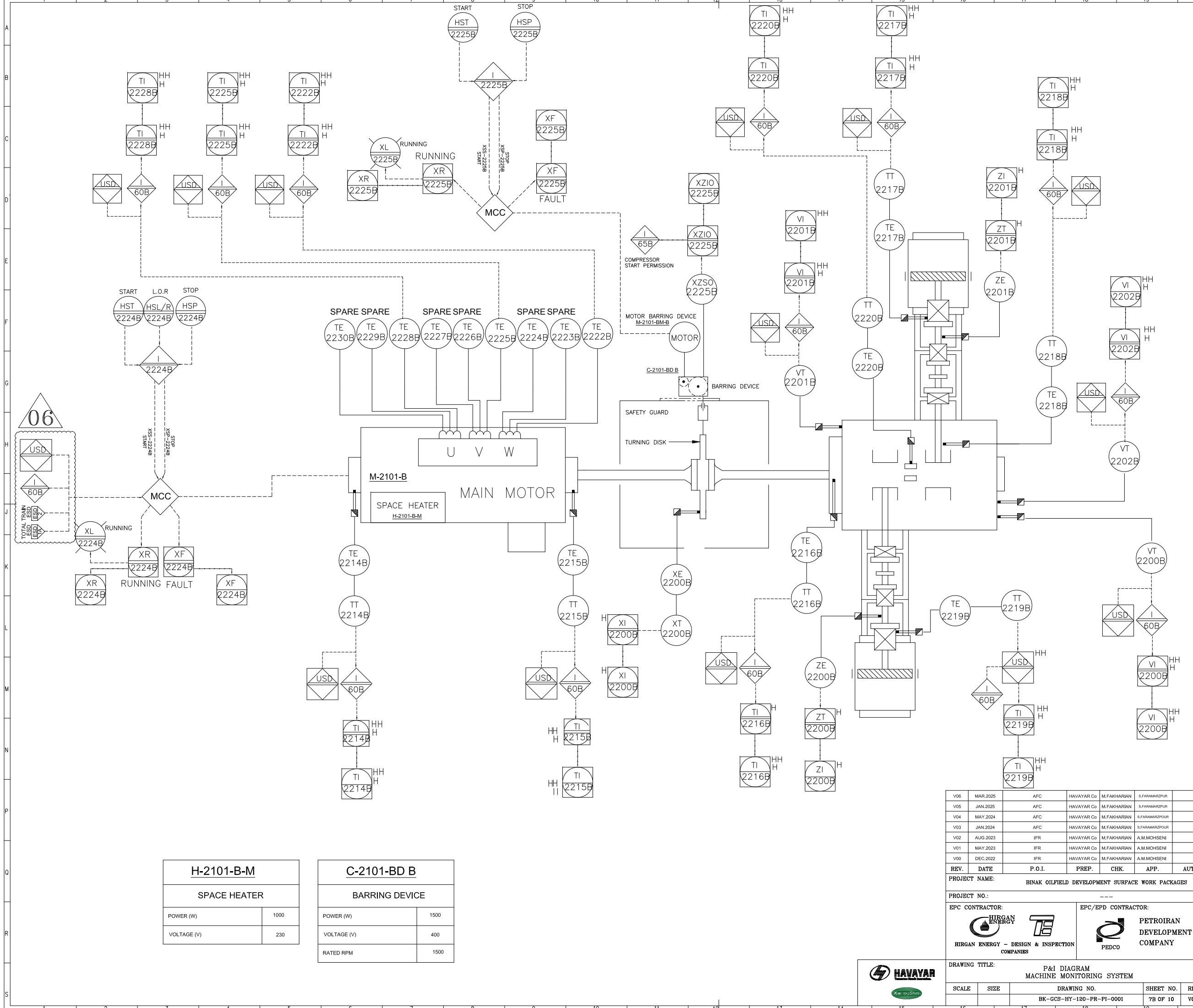
BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES

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





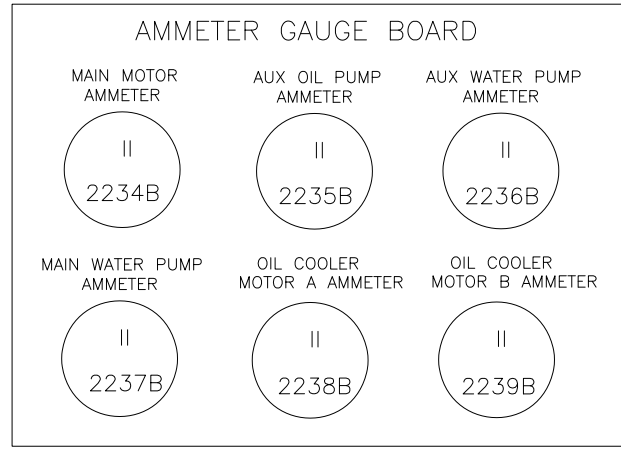
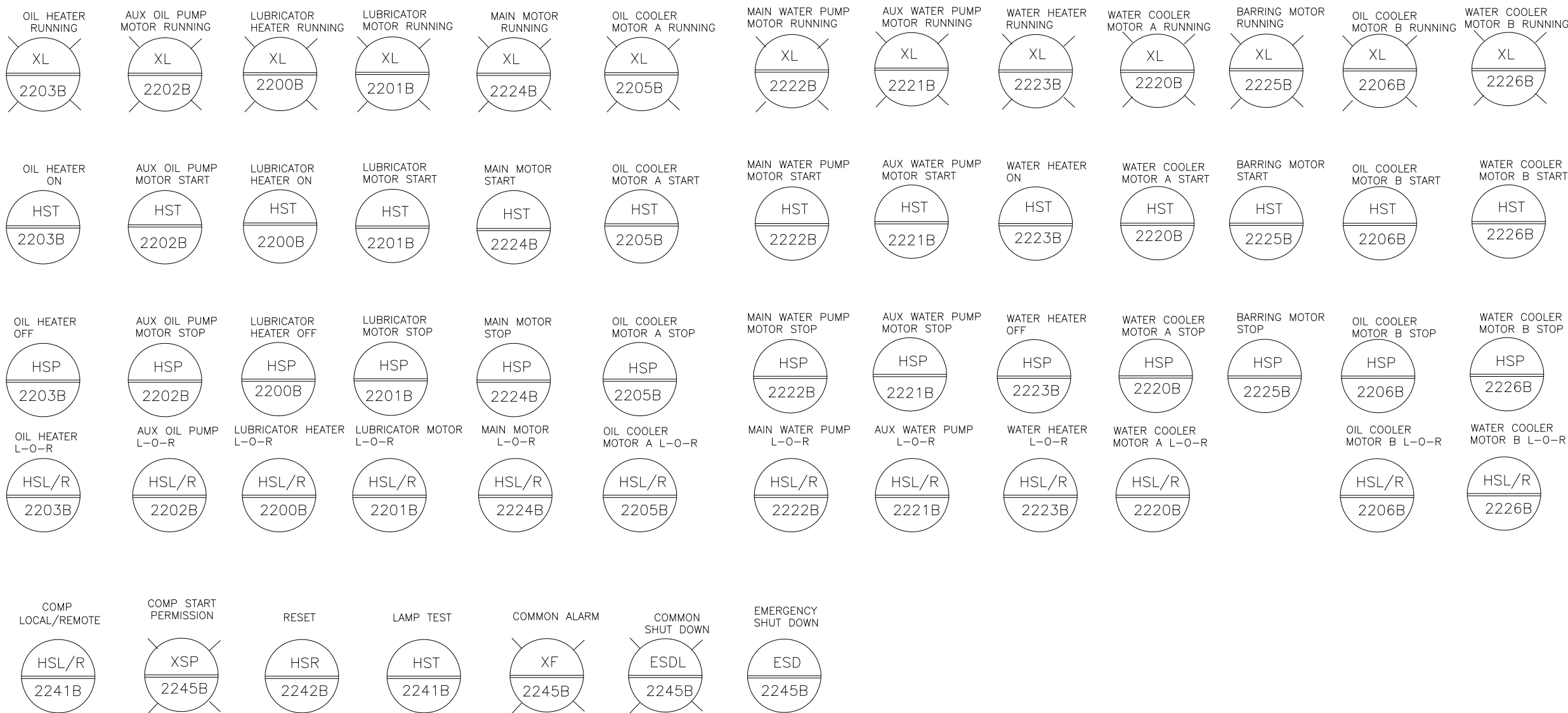
H-2101-B-M	
SPACE HEATER	
POWER (W)	1000
VOLTAGE (V)	230

C-2101-BD B	
BARRING DEVICE	
POWER (W)	1500
VOLTAGE (V)	400
RATED RPM	1500

V06	MAR.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V05	JAN.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V04	MAY.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V03	JAN.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V01	MAY.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES					
PROJECT NO.: ---					
EPC CONTRACTOR:			EPC/EPD CONTRACTOR:		
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY		
DRAWING TITLE: P&I DIAGRAM MACHINE MONITORING SYSTEM					
SCALE	SIZE	DRAWING NO.		SHEET NO.	REV.
		BK-GCS-HY-120-PR-PI-0001		7B OF 10	V06

REFERENCE DRAWINGS				DWG. NUMBER	
Note :					
Legend :					



V06	MAR.2025	AFc	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPOUR	
V05	JAN.2025	AFc	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPOUR	
V04	MAY.2024	AFc	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPOUR	
V03	JAN.2024	AFc	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPOUR	
V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSSENI	
V01	MAY.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSSENI	
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSSENI	
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.

	REV.	DESCRIPTION	BY	DATE	BY	DATE
			CHECKED		REV. APPR.	

این و هی-ک جنین نرق و قح سابق طرعم ب سنگش یلم و قطنم بق ز یخ سوج خیریم

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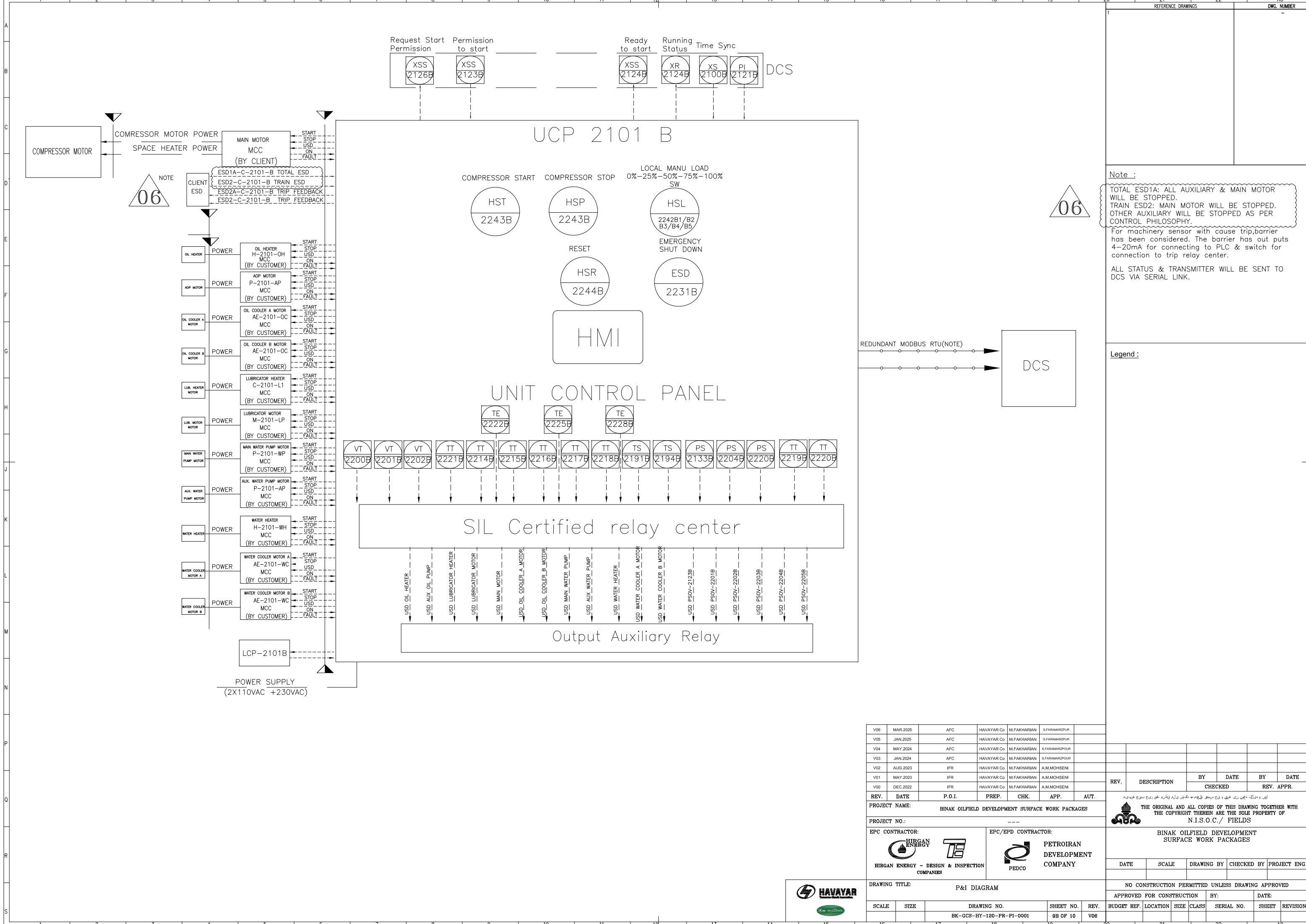
EPC CONTRACTOR:   HIRJAN ENERGY - DESIGN & INSPECTION COMPANIES	EPC/EPD CONTRACTOR:   PETROIRAN DEVELOPMENT COMPANY
--	--

BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES				
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG

DRAWING TITLE: P&I DIAGRAM
LOCAL CONTROL STATION

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV
		BK-GCS-HY-120-PR-PI-0001	8B OF 10	V06
16	17	18	19	

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED							
APPROVED FOR CONSTRUCTION					BY:	DATE:	
W.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION



Note :

TOTAL ESD1A: ALL AUXILIARY & MAIN MOTOR WILL BE STOPPED.
TRAIN ESD2: MAIN MOTOR WILL BE STOPPED. OTHER AUXILIARY WILL BE STOPPED AS PER CONTROL PHILOSOPHY.

For machinery sensor with cause trip, barrier has been considered. The barrier has out puts 4-20mA for connecting to PLC & switch for connection to trip relay center.

ALL STATUS & TRANSMITTER WILL BE SENT TO DCS VIA SERIAL LINK.

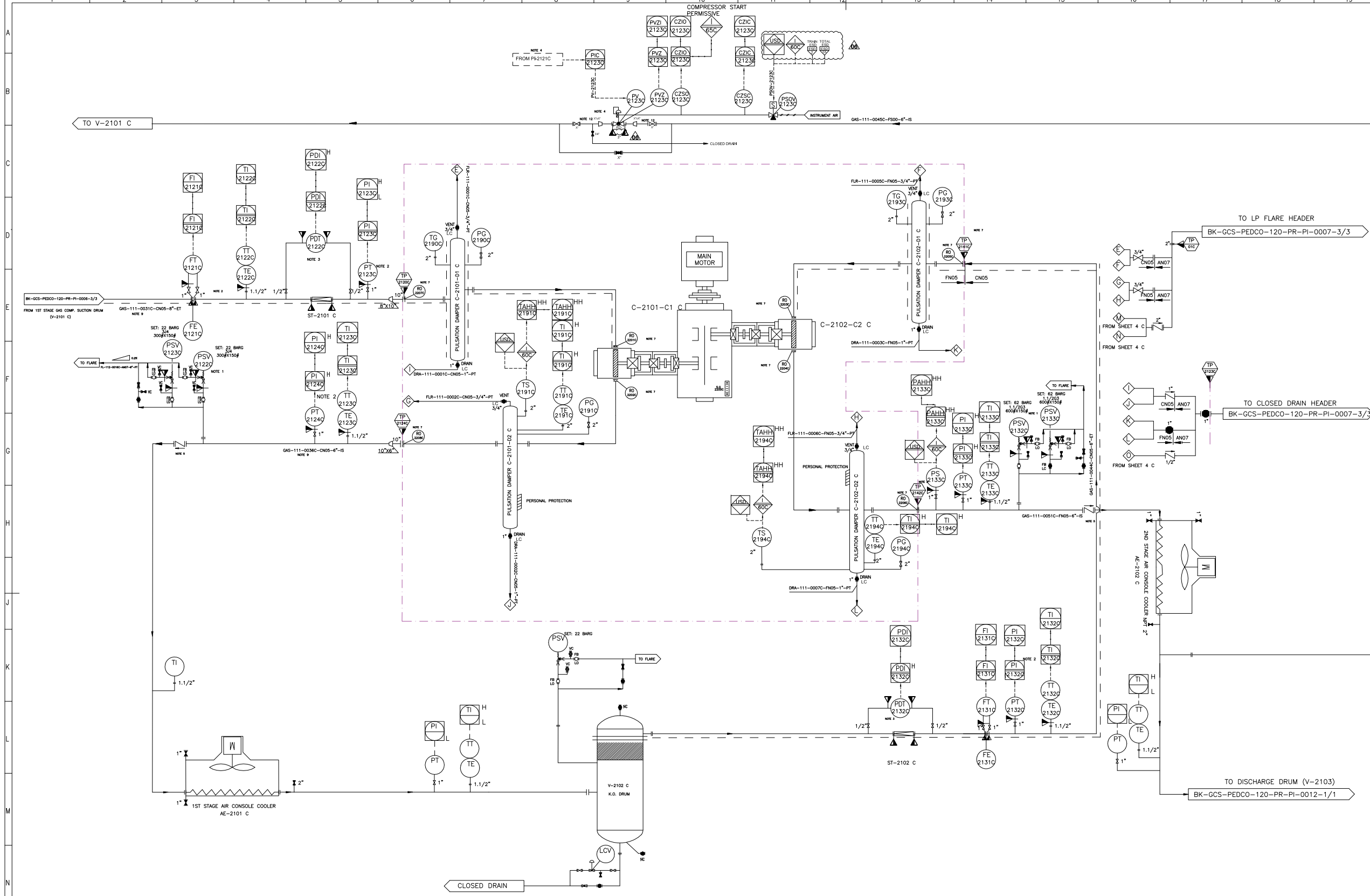
Legend :

REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.
V06	MAR.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V05	JAN.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V04	MAY.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V03	JAN.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V01	MAY.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	

PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES									
PROJECT NO.: ---									
EPC CONTRACTOR:					EPC/EPD CONTRACTOR:				
  HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES					 PETROIRAN DEVELOPMENT COMPANY				
DRAWING TITLE: P&I DIAGRAM									
SCALE		SIZE		DRAWING NO.			SHEET NO.		REV.
				BK-GCS-HY-120-PR-P1-0001			9B OF 10		V06
16		17		18		19			

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED					
APPROVED FOR CONSTRUCTION			BY:	DATE:	
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET
					REVISION





C-2101-C1 C	
1ST STAGE COMPRESSOR CYLINDER	
INLET PRESSURE (barg)	4.8
OUTLET PRESSURE (barg)	18
RATED CAPACITY (kg/h)	8935.5
POWER (kW)	441.1
DESIGN TEMPERATURE (°C)	180
DESIGN PRESSURE (BARG)	24.5

C-2102-C2 C	
2ND STAGE COMPRESSOR CYLINDER	
INLET PRESSURE (barg)	17
OUTLET PRESSURE (barg)	54.9
RATED CAPACITY (kg/h)	8935.5
POWER (kW)	463
DESIGN TEMPERATURE (°C)	180
DESIGN PRESSURE (BARG)	24.5

C-2101-D1 C	
1ST STAGE SUCTION SNUBBER	
DESIGN PRESSURE (barg)	24.5
DESIGN TEMPERATURE (°C)	180
INSULATION	YES
DIMENSION (TL.TL * ID) (MM)	2320*834
NOMINAL CAPACITY (M3)	1.5

C-2101-D2 C	
1ST STAGE DISCHARGE SNUBBER	
DESIGN PRESSURE (barg)	24.5
DESIGN TEMPERATURE (°C)	180
INSULATION	YES
DIMENSION (TL.TL * ID) (MM)	2120*783
NOMINAL CAPACITY (M3)	1.2

C-2102-D1 C	
2ND STAGE SUCTION SNUBBER	
DESIGN PRESSURE (barg)	62
DESIGN TEMPERATURE (°C)	180
INSULATION	YES
DIMENSION (TL.TL * ID) (MM)	1810*661
NOMINAL CAPACITY (M3)	0.74

C-2102-D2 C	
2ND STAGE DISCHARGE SNUBBER	
DESIGN PRESSURE (barg)	62
DESIGN TEMPERATURE (°C)	180
INSULATION	YES
DIMENSION (TL.TL * ID) (MM)	1780*661
NOMINAL CAPACITY (M3)	0.71

V06	MAR.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V05	JAN.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V04	MAY.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V03	JAN.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V01	MAY.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.
PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES						
PROJECT NO.: ---						
EPC CONTRACTOR:			EPC/EPD CONTRACTOR:			
 HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY			

REFERENCE DRAWINGS

4 MECHANICAL DATA SHEETS FOR GAS COMPRESSORS PACKAGES
21st STAGE GAS COMPRESSION SUCTION DRUM
31st STAGE GAS COMPRESSION COMPRESSORS
41st STAGE GAS COMPRESSION AIR COOLERS
52nd STAGE GAS COMPRESSION SUCTION DRUMS
62nd STAGE GAS COMPRESSION COMPRESSORS
72nd STAGE GAS COMPRESSION AIR COOLERS
82nd STAGE GAS COMPRESSION DISCHARGE DRUM

DWG. NUMBER

BK-GCS-PEDCO-120-PR-PI-0001_006
BK-GCS-PEDCO-120-PR-PI-0006_006
BK-GCS-PEDCO-120-PR-PI-0007_006
BK-GCS-PEDCO-120-PR-PI-0008_006
BK-GCS-PEDCO-120-PR-PI-0009_006
BK-GCS-PEDCO-120-PR-PI-0010_006
BK-GCS-PEDCO-120-PR-PI-0011_006
BK-GCS-PEDCO-120-PR-PI-0012_006

Note :

1. PSV WILL BE SUPPLIED LOOSE.
2. INSTRUMENTS WILL BE SUPPLIED LOOSE ON CLIENT LINE.
3. THE FILTER AND PDT WILL BE SUPPLIED LOOSE ON CLIENT LINE.
4. SPILL BACK VALVE WILL BE SUPPLIED BY VENDOR AS LOOSE ITEM. PI-2121C WILL BE SENT FROM DCS TO UCP BY CLIENT.
5. NON SLAM TYPE CHECK VALVE.
6. ALL INSTRUMENTS TAG NUMBER ARE START WITH PREFIX C.
7. THE RO REQUIREMENT WILL BE FINALIZED AFTER PULSATION STUDY.
8. DELETED.
9. THE LINE SHALL BE EXPANDED TO THE B.L. FLANGE SIZE AND BE ACCORDING TO THE B.L. PIPING CLASS.
10. ALL hook up material for instrument of Havayar battery limit will be supplied by Havayar.
11. Instrument on skid tag number will be started with C-xxxx.
12. THE SIZE OF PV-2123 C IS 3". THE SIZE OF SPILL-BACK LINE HAS BEEN ADDED IN PROJECT P&ID.

Legend :

REV.

DESCRIPTION

BY

DATE

BY

DATE

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BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES

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.

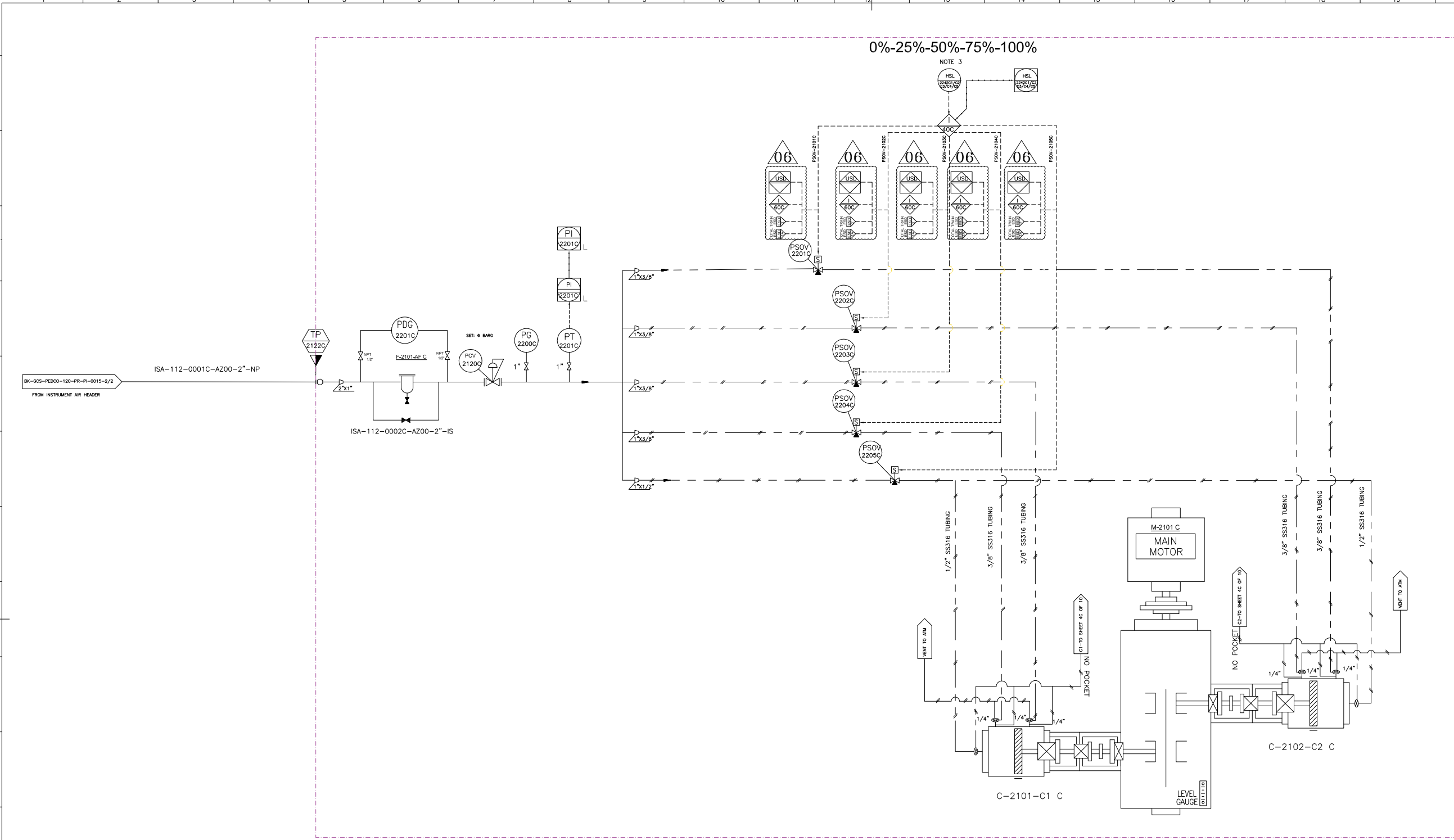
SHEET

REVISION

Software

Autocad

File No BK-GCS-HY-120-PR-PI-0001-V06.dwg



F-2101-AF C	
INSTRUMENT AIR FILTER	
DESIGN PRESSURE (barg)	12.5
DESIGN TEMPERATURE (°C)	85
MESH SIZE (micron)	0.1

V06	MAR.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V05	JAN.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V04	MAY.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V03	JAN.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V01	MAY.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.

PROJECT NAME:		BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES	
PROJECT NO.:		---	
EPC CONTRACTOR:		EPC/EPD CONTRACTOR:	
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES		 PETROIRAN DEVELOPMENT COMPANY	

REFERENCE DRAWINGS			DWG. NUMBER	

Note :
1. DELETED.
2. THE UNLOADERS ARE AIR TO LOAD TYPE.
3. CAPACITY CONTROL WILL BE PERFORMED FROM UCP.

Legend :

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV.	APPR.

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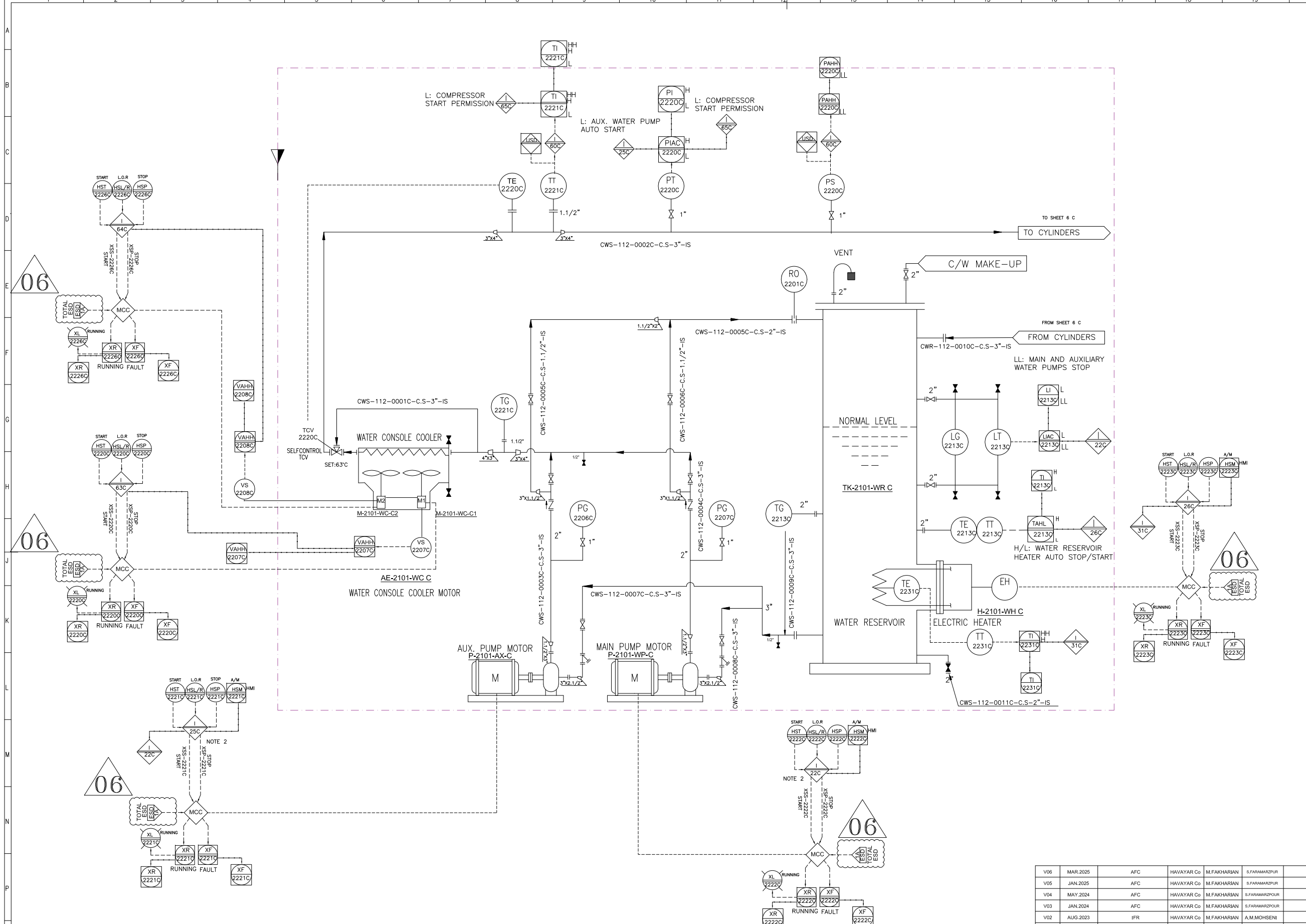
BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES

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





AE-2101-WC C	
WATER COOLER	
TYPE	AIR COOLER
DESIGN PRESSURE (barg)	8
OPERATING PRESSURE (barg)	3
DESIGN TEMPERATURE (°C)	85
OPERATING TEMPERATURE (°C)	70/63

P-2101-WP C	
MAIN WATER PUMP	
TYPE	CENTRIFUGAL
RATED POWER (KW)	5,5
OPERATING CAPACITY (TON/H)	15,3
RATED HEAD (M)	40

P-2101-AX C	
AUX. WATER PUMP	
TYPE	CENTRIFUGAL
RATED POWER (KW)	5,5
OPERATING CAPACITY (TON/H)	15,3
RATED HEAD (M)	40

H-2101-WH C	
WATER HEATER	
TYPE	ELECTRICAL
RATED POWER (KW)	13,5

TK-2101-WR C	
WATER RESERVOIR	
DESIGN PRESSURE (barg)	3,5
DESIGN TEMPERATURE (°C)	85
DIMENTION (TL*TL*OD) (MM)	1600*1312
NOMINAL CAPACITY (M3)	2,7
INSULATION	YES



V06	MAR.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V05	JAN.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V04	MAY.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V03	JAN.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V01	MAY.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.

PROJECT NAME:					BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES				
PROJECT NO.:					---				
EPC CONTRACTOR:					EPC/EPD CONTRACTOR:				
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES					 PETROIRAN DEVELOPMENT COMPANY				
DRAWING TITLE:					P&I DIAGRAM PLAN D COOLING WATER SYSTEM				
SCALE		SIZE		DRAWING NO.			SHEET NO.		REV.
				BK-GCS-HY-120-PR-PI-0001			5C OF 10		V06

REFERENCE DRAWINGS

DWG. NUMBER

A0

Note :

1. DELETED.

2. I-22 INTERLOCK HAS PRIORITY OVER I-25

Legend :

REV.

DESCRIPTION

BY

DATE

BY

DATE

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BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES

DATE

SCALE

DRAWING BY

CHECKED BY

PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION

BY:

DATE:

BUDGET REF.

LOCATION

SIZE

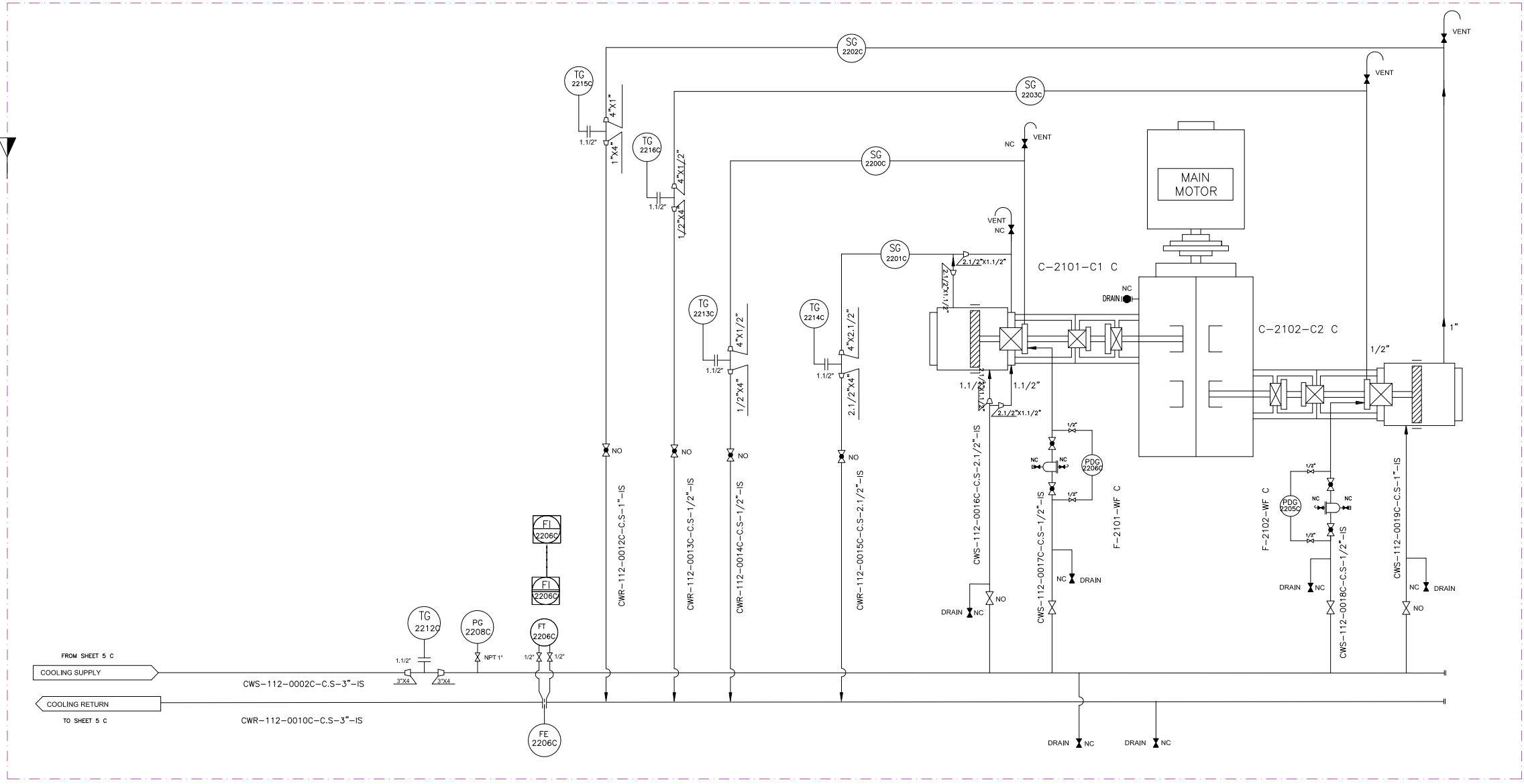
CLASS

SERIAL NO.

SHEET

REVISION

A0



F-2101-WF C	
WATER FILTER	
OPERATING PRESSURE (barg)	3
OPERATING TEMPERATURE (°C)	63
DESIGN PRESSURE (barg)	8
DESIGN TEMPERATURE (°C)	85
MESH SIZE (MICRON)	125

F-2102-WF C	
WATER FILTER	
OPERATING PRESSURE (barg)	3
OPERATING TEMPERATURE (°C)	63
DESIGN PRESSURE (barg)	8
DESIGN TEMPERATURE (°C)	85
MESH SIZE (MICRON)	125



V06	MAR.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V05	JAN.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V04	MAY.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPOUR	
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V01	MAY.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.
PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES						
PROJECT NO.: ---						
EPC CONTRACTOR:			EPC/EPD CONTRACTOR:			
 HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY			
DRAWING TITLE: P&I DIAGRAM COOLING WATER SYSTEM						
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.
		BK-GCS-HY-120-PR-PI-0001			6C OF 10	V06
16		17	18	19		

Note :

Legend :

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	

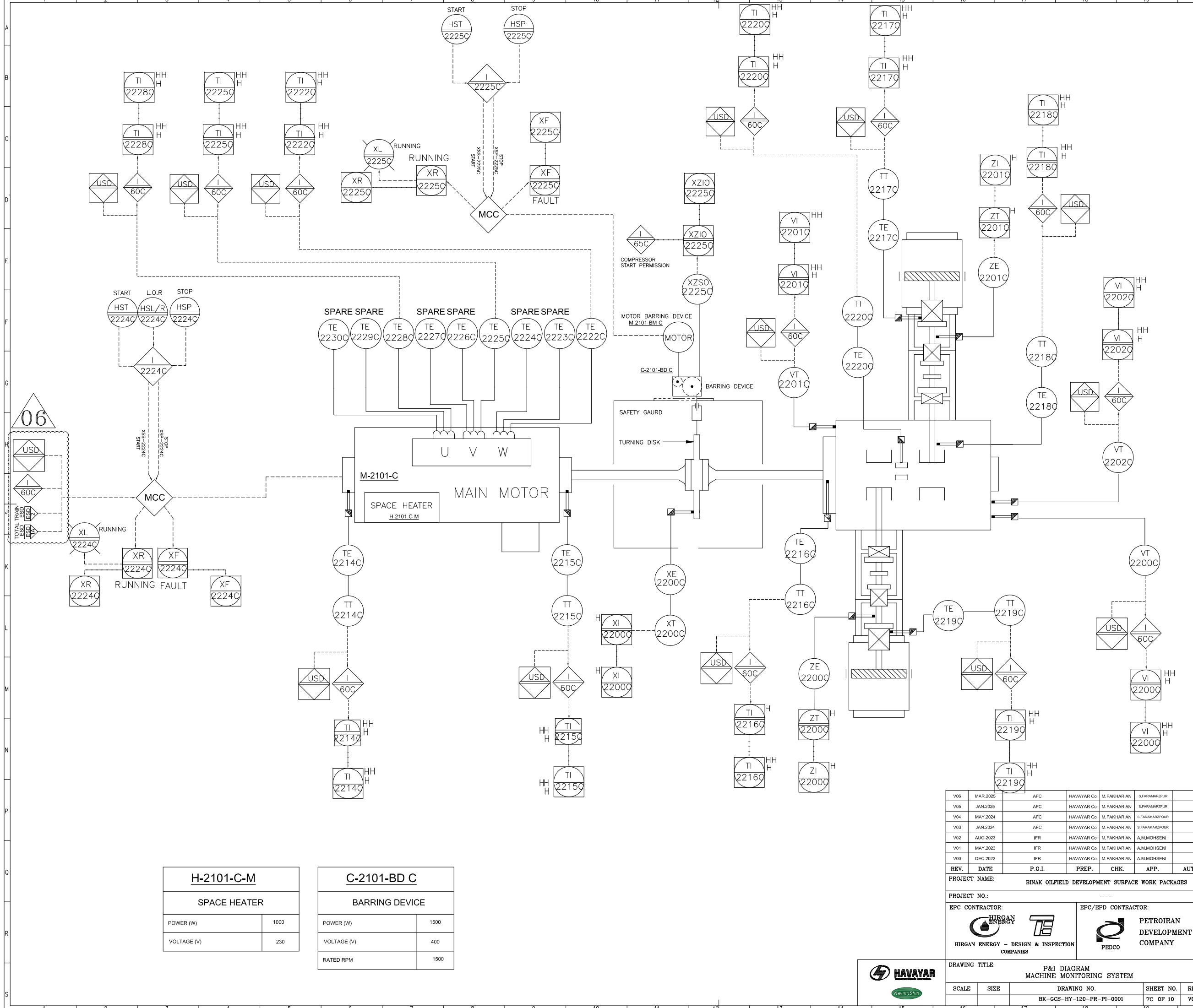
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BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

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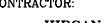
APPROVED FOR CONSTRUCTION	BY:	DATE:				
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION



H-2101-C-M	
SPACE HEATER	
POWER (W)	1000
VOLTAGE (V)	230

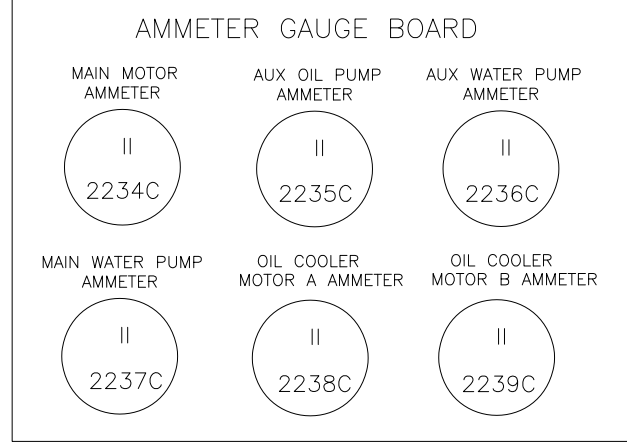
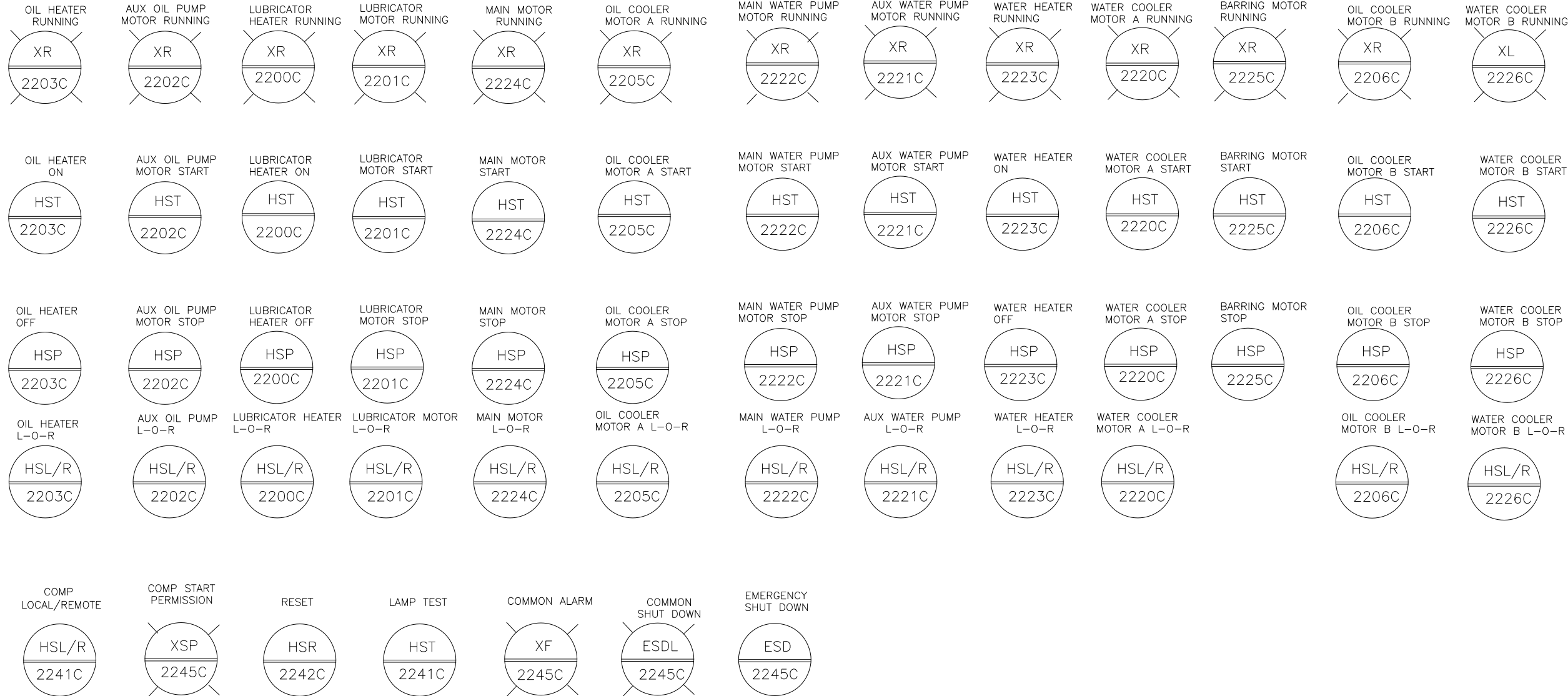
C-2101-BD C	
BARRING DEVICE	
POWER (W)	1500
VOLTAGE (V)	400
RATED RPM	1500

V06	MAR.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V05	JAN.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V04	MAY.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V03	JAN.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
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V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.

PROJECT NAME:		BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES	
PROJECT NO.:		---	
EPC CONTRACTOR:		EPC/EPD CONTRACTOR:	
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES		 PETROIRAN DEVELOPMENT COMPANY	

REFERENCE DRAWINGS		DWG. NUMBER	
Note :			
Legend :			

LCP-2101C



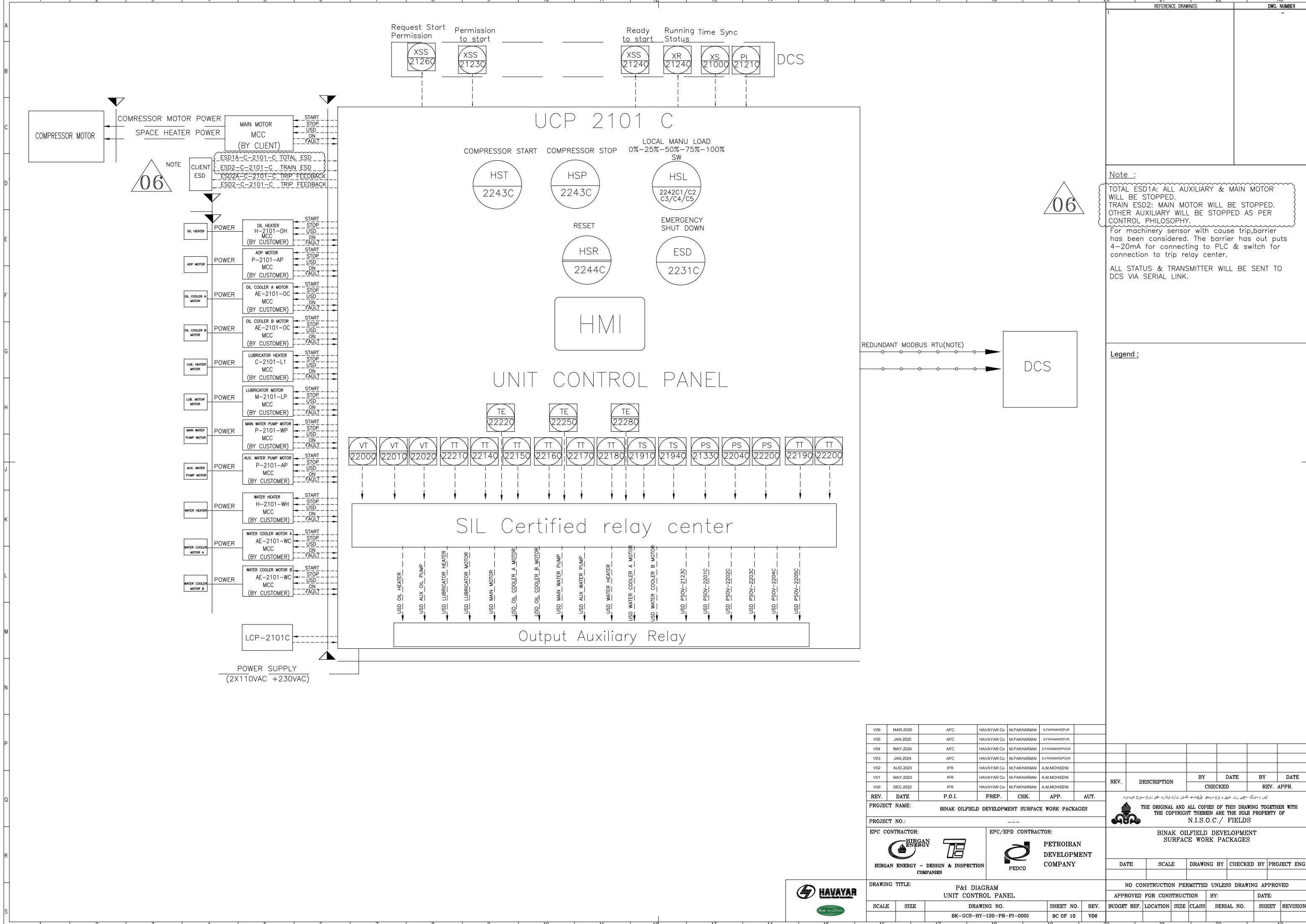
V06	MAR.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V05	JAN.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
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V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES					
PROJECT NO.:			---		
EPC CONTRACTOR:			EPC/EPD CONTRACTOR:		
 HIRGAN ENERGY ~ DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY		
DRAWING TITLE: P&I DIAGRAM LOCAL CONTROL STATION					
SCALE		SIZE		DRAWING NO.	
				BK-GCS-HY-120-PR-PI-0001	
SHEET NO.		REV.			
8C OF 10		V06			
16		17		18	
19					

Note :
Signals of LCP will be connected to UCP.

Legend :





Note :
TOTAL ESD1A: ALL AUXILIARY & MAIN MOTOR WILL BE STOPPED.
TRAIN ESD2: MAIN MOTOR WILL BE STOPPED. OTHER AUXILIARY WILL BE STOPPED AS PER CONTROL PHILOSOPHY.
For machinery sensor with cause trip, barrier has been considered. The barrier has out puts 4-20mA for connecting to PLC & switch for connection to trip relay center.

ALL STATUS & TRANSMITTER WILL BE SENT TO DCS VIA SERIAL LINK.

Legend :

REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.
V06	MAR.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V05	JAN.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V04	MAY.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V03	JAN.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V01	MAY.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	

PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES

PROJECT NO.: ---

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
		BK-GCS-HY-120-PR-P1-0001	9C OF 10	V06

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	

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BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES

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APPROVED FOR CONSTRUCTION BY: DATE:

BUDGET REF. LOCATION SIZE CLASS SERIAL NO. SHEET REVISION

21 22 A0

SYMBOL	DESCRIPTION		DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	PRESSURE GAUGE		SOLENOID VALVE		GATE VALVE		SOLENOID VALVE		LOCAL MOUNTED		ELECTRIC SIGNAL
	PRESS. IND. TRANSMITTER		TEMP. TRANSMITTER		GLOBE VALVE		UNLOADER		MAIN CONTROL PANEL MOUNTED		DATA LINK SIGNAL
	PRESS. DIFF. IND. TRANSMITTER		TEMP. INDICATOR		NEEDLE VALVE		PROCESS / INSTRUMENT LINE		GAUGE BOARD MOUNTED		FILTER
	TEMP. GAUGE		SIGHT GLASS		CHECK VALVE		OTHER UTILITY LINE (C/W)		DCS		STRAINER
	TEMP. ELEMENT		RELIEF VALVE		Y-STRAINER		CAPILLARIES TUBE		UCP INDICATOR		TRAIN ESD(FROM CLIENT ESD TO TRIP RELAY)
	PRESSURE INDICATOR		FLOW GAUGE		SELF PRESS. REDUCING REGULATOR		LUB. OIL LINE		Trip Relay Center in UCP		TOTAL ESD(FROM CLIENT ESD TO TRIP RELAY)
	PRESSURE SAFETY VALVE		BALL VALVE		PRESSURE SAFETY VALVE		INSTRUMENT AIR LINE		FUNCTION IMPLEMENTED IN UCP		REGULATOR WITH FILTER
	TEMPERATURE CONTROL VALVE		ELECTRICAL HEATER		HEAT TRACE		RESTRICTION ORIFICE		INSULATION		PERSONNEL PROTECTION
	TIE IN POINT		LIMITS OF HAVAYAR SUPPLY		BATTERY LIMITS		GAUGE BOARD		STOP BY PLC		VENT

06

Note :

Legend :

EQUIPMENT NUMBERING

AA	BCDD	E
AA: EQUIPMENT CODE	EQUIPMENT	CODE
AIRCOOLER		AE
COMPRESSOR		C
CONTROL PANEL		LC(LCP)
DIESEL ENGINE		DL
EXCHANGER SHELL-AND TUBE, DOUBLE PIPE, PLATE, COIL, AIR COOLED, REBOILER, BOX COOLER, CASCADE COOLER, SURFACE CONDENSER, BAROMETRIC CONDENSER, WASTE-HEAT BOILER		E
FAN		FA
FILTER		F
FLARE STACK		FS(FST)
GAS TURBINE		GT
HEATER, FIRED, FURNACE		H
HOIST		HI
HOSE HOUSE		HH
HOSE REEL		HR
IGNITION PACKAGE		IG
INDOOR HOSE REELS		IN(HR)
MOTOR ELECTRIC		M
OUTDOOR HOSE REELS		OH(OHR)
PACKAGE UNIT		PK
PIG LAUNCHER		PL
PULSATION DAMPENERS		PD
PUMP		P
SCALE, WEIGHING, MEASURING		SC
SILENCER, MUFFLER		SI
STACK, CHIMNEY		SE
STRAINER		ST(STR)
SUMP		SU
TANK, SILO, HOPPER		TK
TOWER, COLUMN		T
UNLOADER		UL
VESSEL (SCRUBBER, ACCUMULATOR, K.O. DRUM, SPHERE, BULLET, SEPARATOR)		V

B: PLANT NO ABBREVIATION

GCS PLANT : 2

C: UNIT NO

1 PROCESS
2 UTILITY
3 FIRE WATER

DD: SEQUENTIALIAL NO (01 TO 09) IF MORE REQUIRED IT CAN BE IDENTIFIED WITH TWO DIGIT SUCH THAT THE FIRST DIGIT COMES FROM THE LAST DIGIT UNIT KEY.

E: ALPHABETICAL LETTER (FOR MULTIPLE IDENTICAL EQ. AND SPARE)

LINE NUMBERING

AAA	XXX	YYYY	ZZZZ	D*	CC(*)
-----	-----	------	------	----	-------

(1) - (2) - (3) - (4) - (5) - (6)

(1) FLUID IDENTIFICATION CODE

CODE DESCRIPTION

A. AIR SYSTEM

ISA INSTRUMENT AIR
PLA PLANT AIR

B. BLOWDOWN & PUMP OUT SYSTEM/EFFLUENT DISPOSAL

BDN BLOW DOWN
CBD CONTINUOUS BLOW DOWN
IBD INTERMITTENT BLOW DOWN

C. DRAIN (SEWER) SYSTEM

CDB CONCRETE DRAIN BOX
CDH CLOSED DRAIN HEADER
CSW CHEMICAL SEWER
CY CHEMICAL DRAIN PIT
DRP DRAIN PIT
NSW NON OILY WATER SEWER
OPD OPEN DRAIN
OSW OILY WATER SEWER
SSW SANITARY WATER SEWER
Y DRAIN FUNNEL (GENERAL)

D. FLARE SYSTEM AND VENT

ATM ATMOSPHERE
FLR FLARE (NORMAL)
HFL HIGH PRESSURE FLARE
LFL LOW PRESSURE FLARE

E. FULES

FLP FUEL GAS / PURGE GAS
FLO FUEL OIL
NG NATURAL GAS
DO DIESEL OIL

F. SPECIAL GAS SYSTEM

AIR AIR (DRYING SERVICE)
FUG FLUE GAS
NIT NITROGEN

G. SPECIAL CHEMICAL AND SOLVENT SYSTEM

CHM CHEMICALS
MEL METHANOL

I. WATER SYSTEM

FWA FIRE WATER
OWA OILY WATER
PRW PROCESS WATER
PTW POTABLE WATER
PWA PLANT WATER
RWA RAW WATER
CWS COOLING WATER SUPPLY
CWR COOLING WATER RETURN

LINE NUMBERING

K. PROCESS SERVICE

GAS GAS
GSO GAS OIL
HCB HYDROCARBON
PRO PROCESS FLUID
REG RECYCLE GAS
SLP SLOP
CRD CRUDE OIL
TEG TRIETHYLENE GLYCOL

(2) UNIT SERIAL NUMBER

PROCESS NUMBER : 111
UTILITY NUMBER : 112
FIRE WATER : 113

(3) PIPING SERIAL NUMBER

(4) PIPING CLASS CODE

PIPING CLASS ACCORDING IPS-E-PI-221, EACH PIPING MATERIAL CLASS IS IDENTIFIED BY A FOUR-DIGIT ALPHANUMERIC CODE. THE FIRST ALPHA CHARACTER IDENTIFIES THE PRESSURE RATING AS FOLLOWS:

A RATING CLASS 150
C RATING CLASS 300
F RATING CLASS 600
G RATING CLASS 900
H RATING CLASS 1500
W RATING CLASS 3000
X RATING CLASS 5000

THE SECOND ALPHA CHARACTER INDICATES THE MATERIAL GROUP AS FOLLOWS:

N CARBON
S STAINLESS STEEL
X NON METAL PIPE
Z GALVANIZED CARBON STEEL

THE TWO DIGIT FIGURES INDICATE DIFFERING SERVICE CONDITIONS (e.g. PROCESS FLUID BEING HANDLED OR SERVICE TEMPERATURE LIMITS, OR CORROSION RATE).

3 RD DIGIT		FOR METAL PIPE		FOR NON-METAL PIPE		
FIG.	DESIGN STANDARD	FIG.	C.A.	FIG.	MATERIAL TYPE	
0	ASME B 31.3 (FOR INSIDE OF PLANT)	0	0 mm	NO	1	GRE
		1	1 mm	YES		
1	ASME B 31.4 (FOR LIQUID PIPELINE)	2	2 mm	NO	2	PE
		4	3 mm	NO		
2	ASME B 31.8 (FOR GAS PIPELINE)	5	3 mm	YES	3	RTP(REINFORCED THERMOPLASTIC PIPE)
		6	6 mm	NO		
		7	6 mm	YES		

(5) NOMINAL PIPE SIZE

(6) CODE OF INSULATION OR HEATH TRACING:

CODE DESCRIPTION
ET (*) ELECTRICALLY TRACED & INSULATED
ETT (*) ELECTRICALLY TRACED WITH HEAT TRANSFER CEMENT
IC INSULATION COLD
IH INSULATION HOT
IS INSULATION FOR PERSONNEL PROTECTION
TB TRACE BODY AND INSULATE
TBI TRACE BODY AND BONNET AND INSULATE
PT PAINTING
NP NO PAINTING, NO INSULATION
UW UNDERGROUND WRAPPING
* H : HEAT CONSERVATION, W : WINTERIZATION

INSTRUMENT NUMBERING

A	a	b	c	d
---	---	---	---	---

A : INSTRUMENT TYPE ASPER SECTION 5.3

(a) : PLANT NO. ASPER SECTION 1.

(b) : UNIT NO. ASPER SECTION 1.

(c) : SEQUENCE NO.

(d) : OPTIONAL SUFFIX (ONE LETTER)

EQUIPMENT

	ROTARY PUMP WITH INTERNAL RELIEF VALVE
	AIR COOLER
	SEPARATOR
	SHELL AND TUBE EXCHANGER
	CENTRIFUGAL PUMP

V06	MAR.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V05	JAN.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
V04	MAY.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPUR	
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V02	AUG.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V01	MAY.2023	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
V00	DEC.2022	IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI	
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES

PROJECT NO.: ---

EPC CONTRACTOR:	EPC/EPD CONTRACTOR:
HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES	PEDCO

DRAWING TITLE: P&I DIAGRAM SYMBOL AND LEGEND

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
		BK-GCS-HY-120-PR-P1-0001	10 OF 10	V06

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	

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BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES

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BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION

