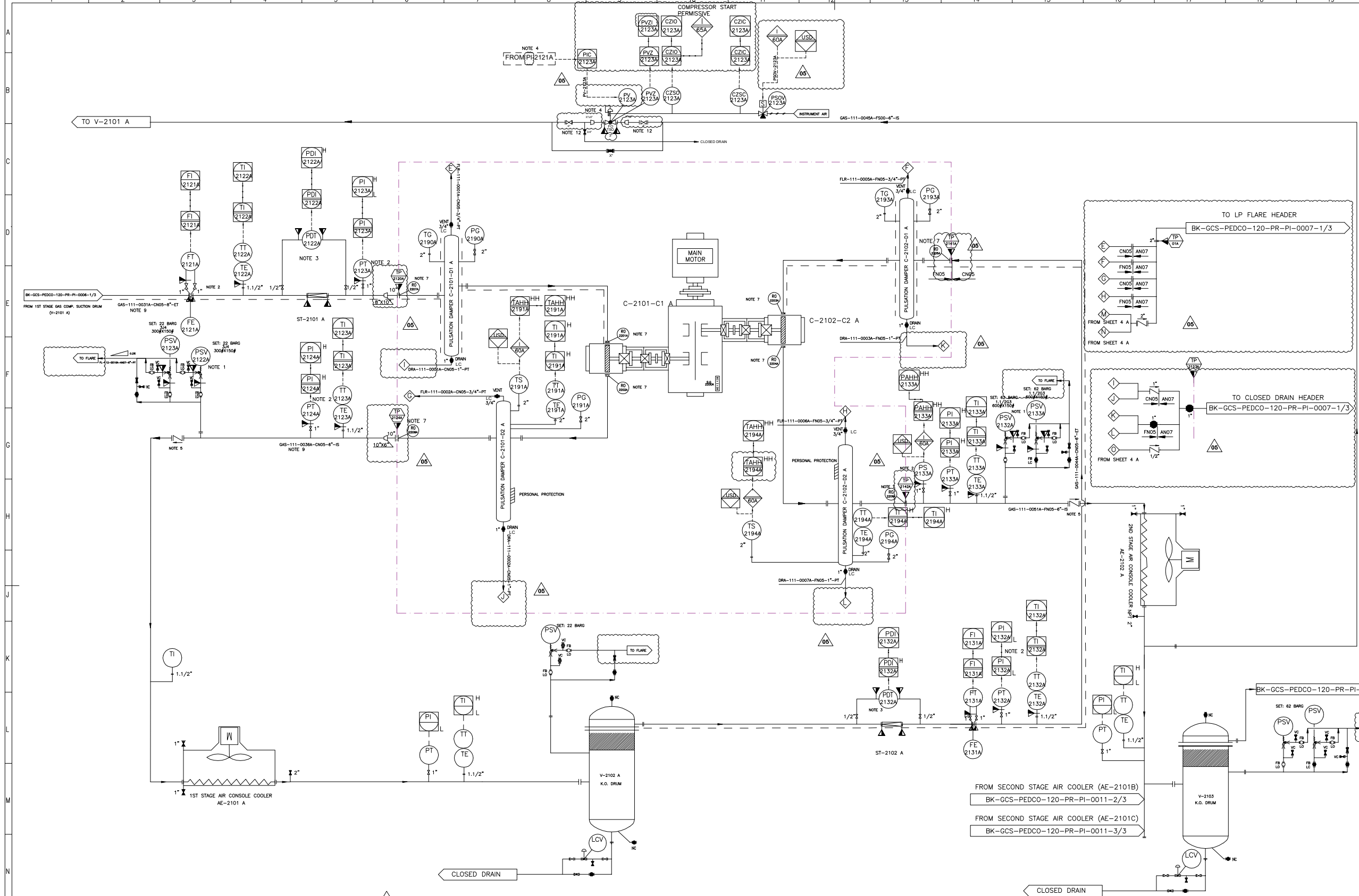




C-2101-C1 A	
1ST STAGE COMPRESSOR CYLINDER	
INLET PRESSURE (barg)	4.8
OUTLET PRESSURE (barg)	18
RATED CAPACITY (kg/h)	8935.5
POWER (kW)	441.1

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

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)	1780*661
NOMINAL CAPACITY (M3)	0.71

V05	JAN 2025		AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAHARZPOUR	
V04	MAY 2024		AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAHARZPOUR	
V03	JAN 2024		AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAHARZPOUR	
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 DRUMS
31st STAGE GAS COMPRESSION SUCTION DRUMS
41st STAGE GAS COMPRESSION SUCTION DRUMS
52nd STAGE GAS COMPRESSION SUCTION DRUMS
62nd STAGE GAS COMPRESSION SUCTION DRUMS
72nd STAGE GAS COMPRESSION SUCTION DRUMS
82nd STAGE GAS COMPRESSION SUCTION DRUMS
9. PIPING MATERIAL SPECIFICATION
10. TAG INSTRUMENTS TAG NUMBER ARE START WITH PREFIX C

DWG. NUMBER
BK-GCS-PEDCO-120-PR-PI-0001-001
BK-GCS-PEDCO-120-PR-PI-0002-006
BK-GCS-PEDCO-120-PR-PI-0003-006
BK-GCS-PEDCO-120-PR-PI-0004-006
BK-GCS-PEDCO-120-PR-PI-0005-006
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
BK-GCS-PEDCO-120-PR-SP-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 :

REV.

DESCRIPTION

BY

DATE

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

BINAIK 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

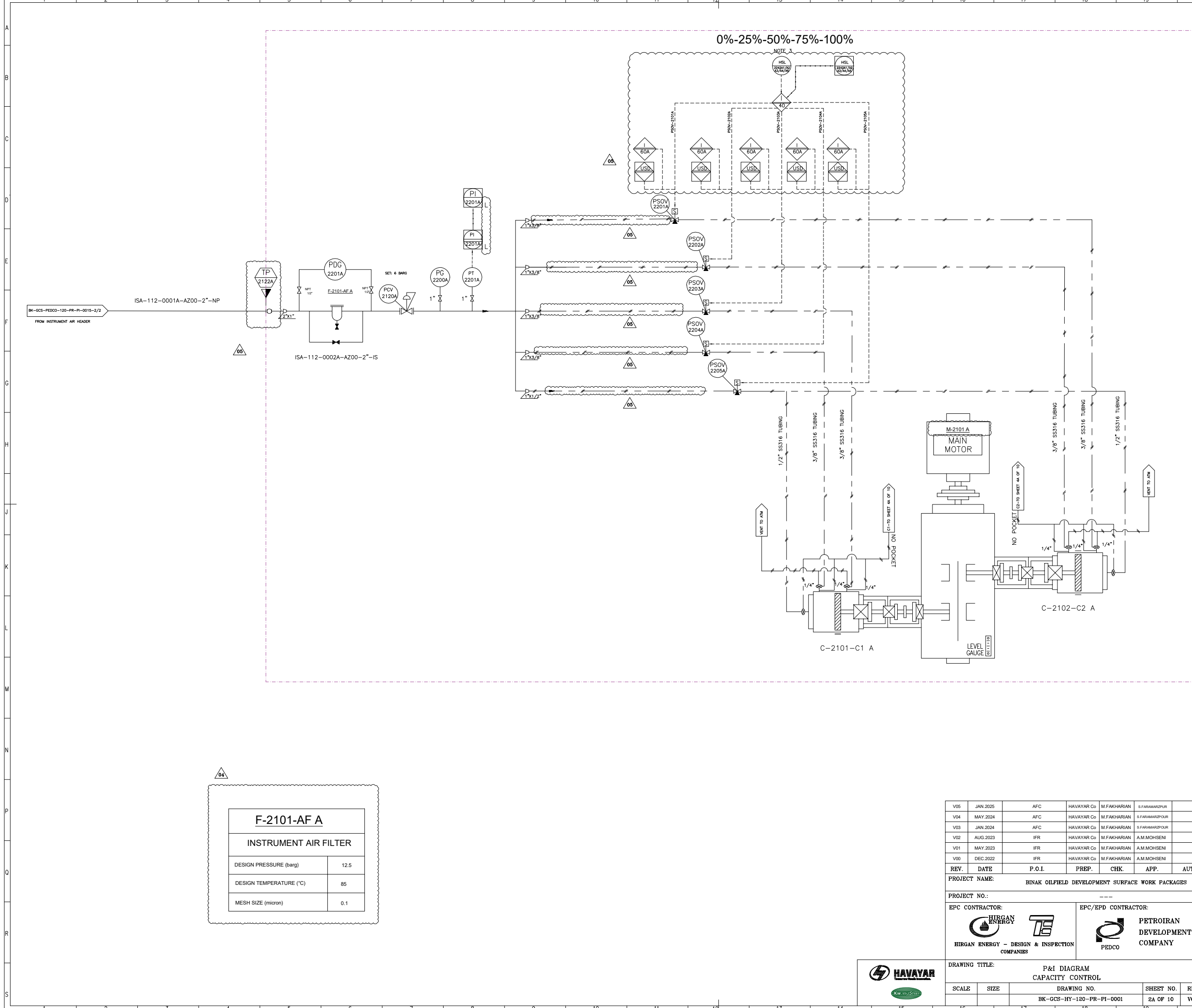
SIZE

CLASS

SERIAL NO.

SHEET

REVISION



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

REFERENCE DRAWINGS	DWG. NUMBER

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

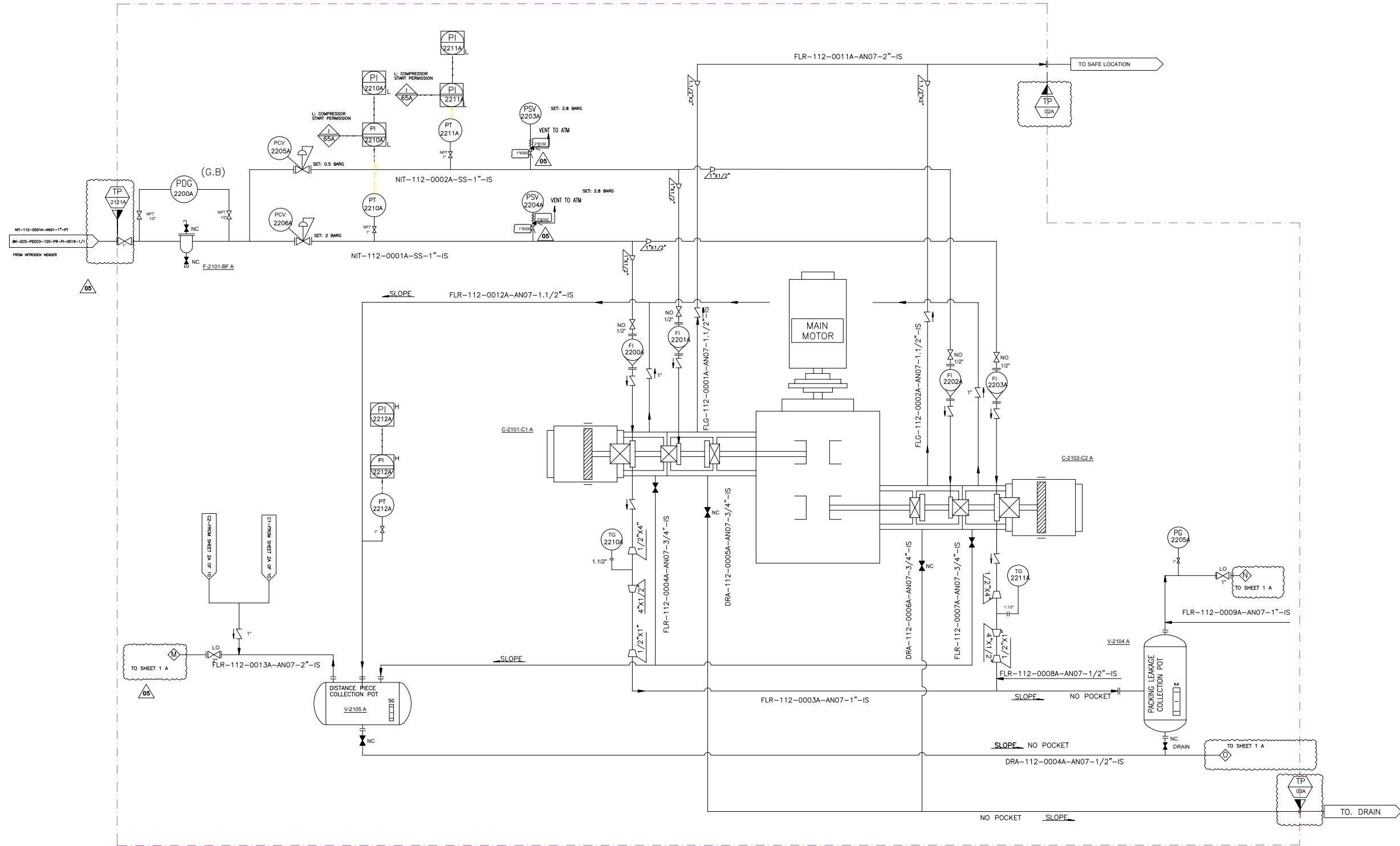
Legend :

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	V05

REV.	DESCRIPTION	BY	DATE	BY	DATE				
		CHECKED		REV.	APPR.				
اسم و کلیه نسخه این نقشه و حق قلمی متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد									
THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS									
									
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			



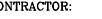


V-2104 A	
PACKING LEAKAGE COLLECTING POT	
DESIGN PRESSURE (barg)	5
DESIGN TEMPERATURE (°C)	85
DIMENTION (TL*TL*OD) (MM)	500*273
NOMINAL CAPACITY (M3)	0.03

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

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.

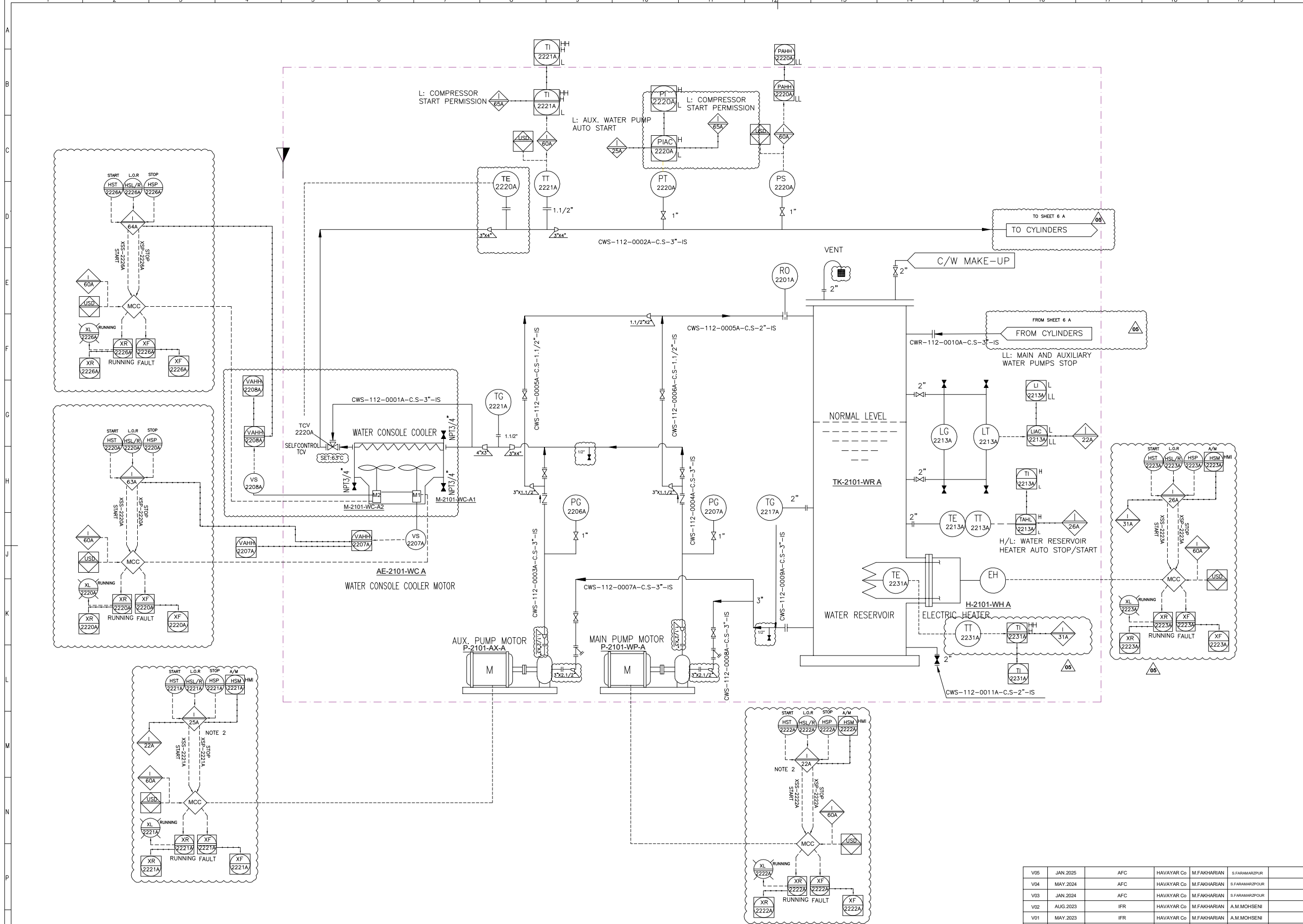
PROJECT NAME:		BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES	
PROJECT NO.:		---	
EPC CONTRACTOR:		EPC/EPD CONTRACTOR:	
 HIRGAN ENERGY - DESIGN & INSPECTION		 PETROIRAN DEVELOPMENT COMPANY	

 THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS					
BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES					
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.	

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

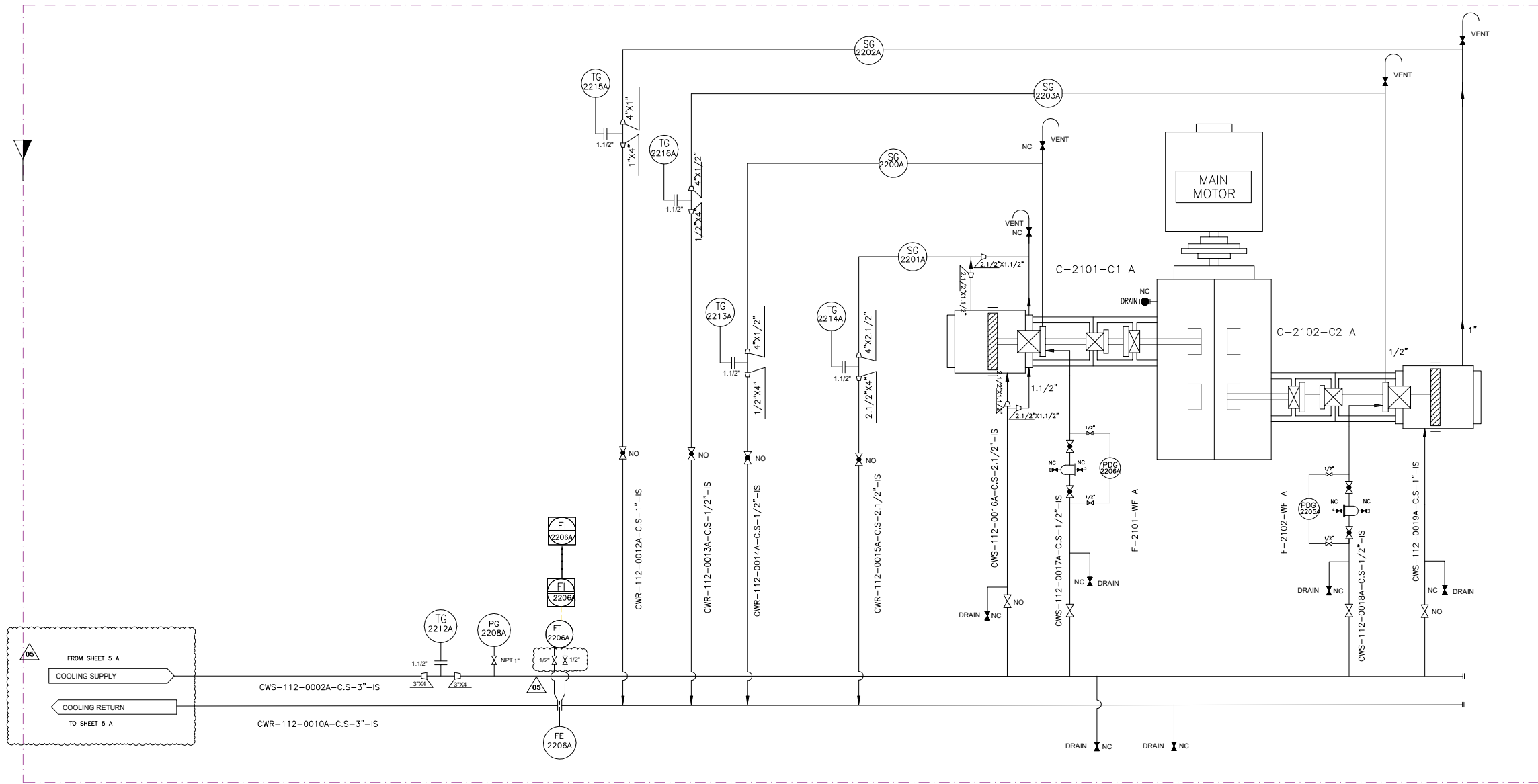
H-2101-WH A	
WATER HEATER	
TYPE	ELECTRICAL
RATED POWER (KW)	13.5

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

V05	JAN.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARHARZPOUR	
V04	MAY.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARHARZPOUR	
V03	JAN.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARHARZPOUR	
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: BINAQ 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 PLAN D COOLING WATER SYSTEM					
SCALE	SIZE	DRAWING NO.		SHEET NO.	REV.
		BK-GCS-HY-120-PR-PI-0001		5A OF 10	V05

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

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	V05		

REFERENCE DRAWINGS		DWG. NUMBER
1.P&ID - 1ST STAGE COMPRESSION COMPRESSORS		BK-GCS-PEDCO-120-PR-PI-0007.002
2.P&ID - 2ND STAGE COMPRESSION COMPRESSORS		BK-GCS-PEDCO-120-PR-PI-0010.002

Note :

Legend :

اصل و کتبیه نسخه این نقشه و حق اقتضای متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد

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

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.

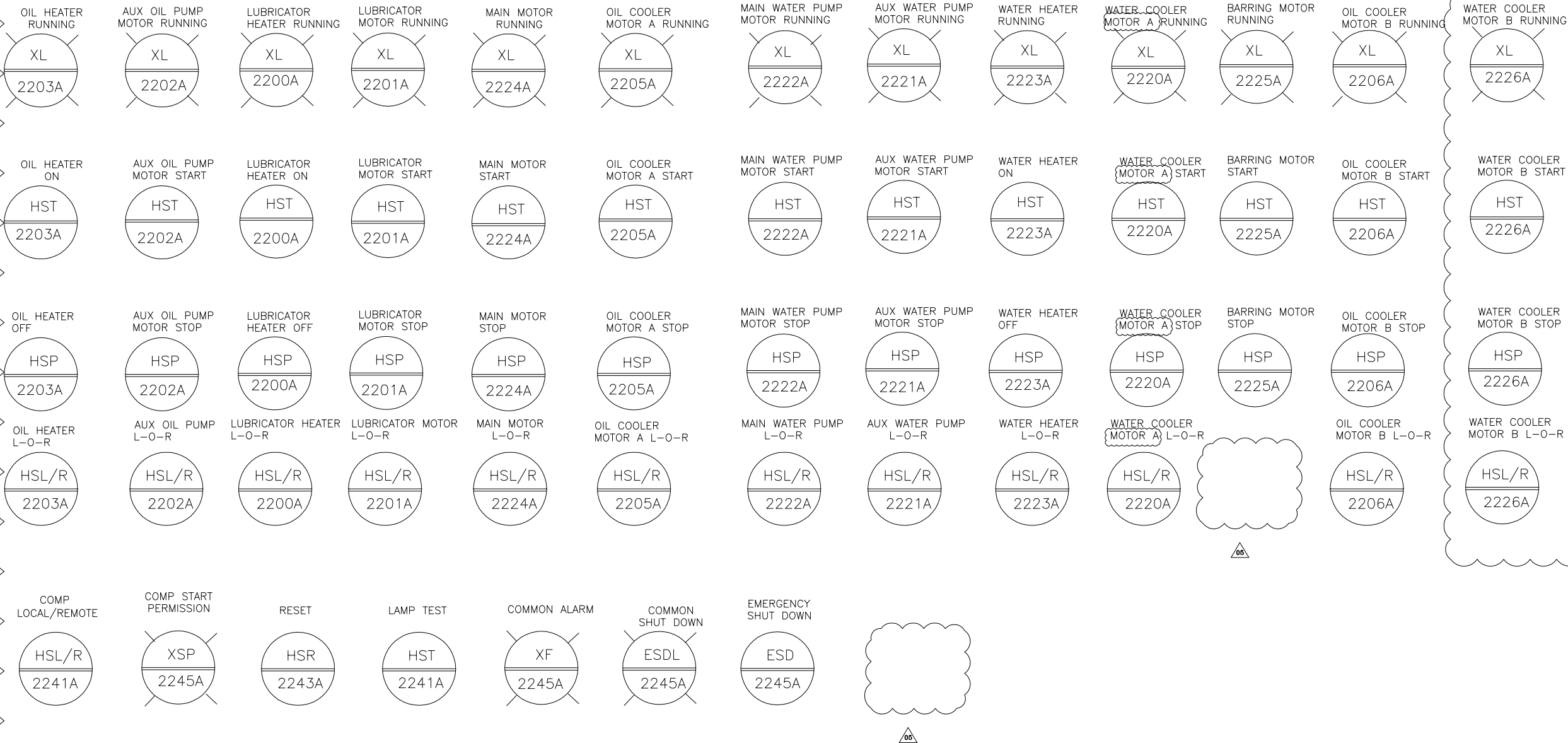
PROJECT NAME:		BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES			
PROJECT NO.:		---			
EPC CONTRACTOR:		EPC/EPD CONTRACTOR:			
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES		 PETROIRAN DEVELOPMENT COMPANY		PEDCO	
DRAWING TITLE:		P&I DIAGRAM MACHINE MONITORING SYSTEM			
SCALE	SIZE	DRAWING NO.		SHEET NO.	REV
		BK-GCS-HY-120-PR-PI-0001		7A OF 10	V05

[illegible]

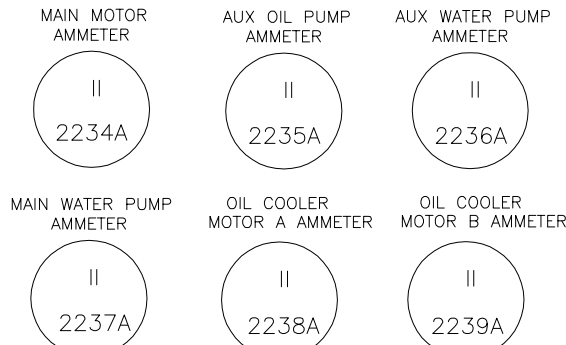
<u>H-2101-A-M</u>	
SPACE HEATER	
POWER (W)	1000
VOLTAGE (V)	230

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

LCP-2101A



AMMETER GAUGE BOARD



Note :

Signals of LCP will be connected to UCP.

Legend :

V05	JAN.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARHAMRZPOUR	
V04	MAY.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARHAMRZPOUR	
V03	JAN.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARHAMRZPOUR	
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-PI-0001	8A OF 10	V05

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

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

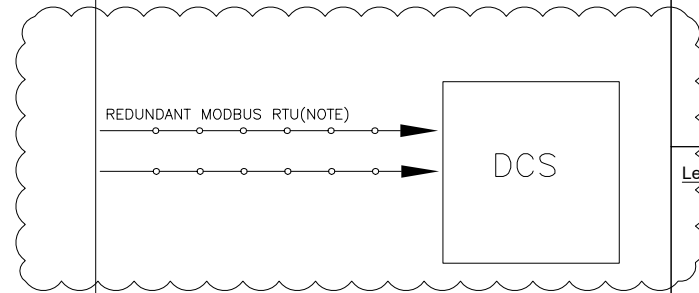
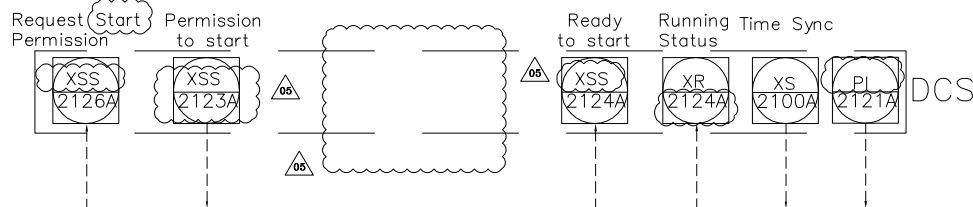
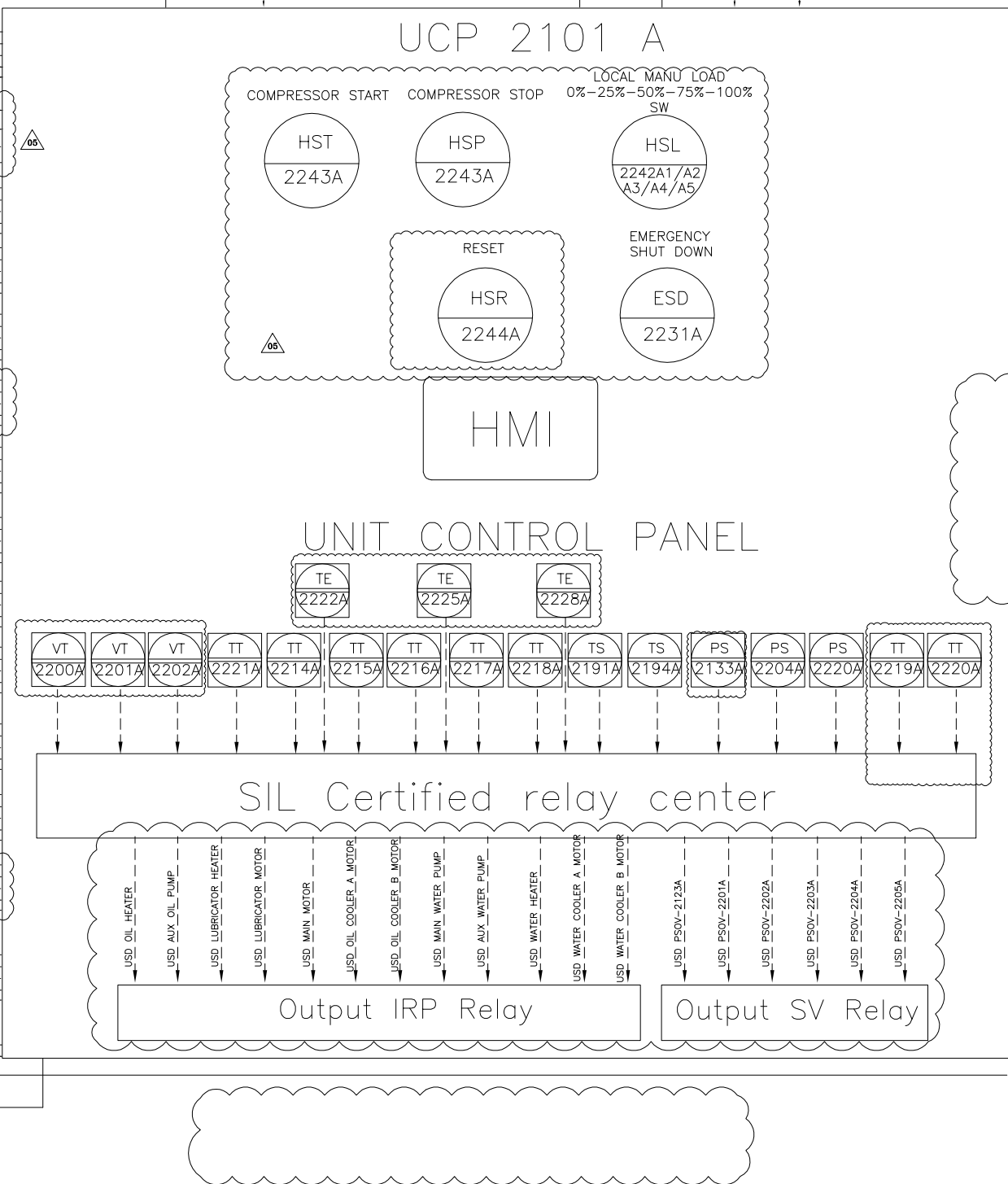
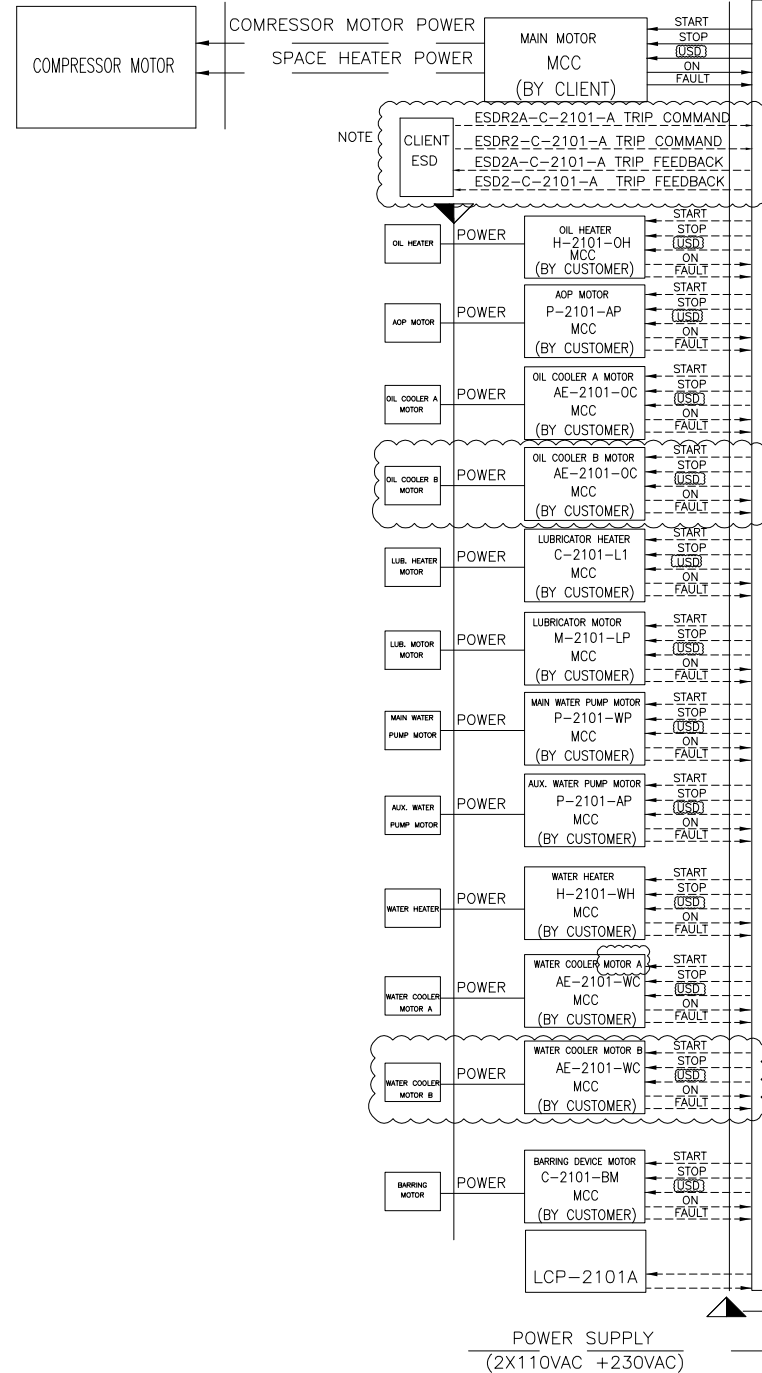
BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES

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 :

ACTION OF ALL ESD COMMANDS WILL HAVE SAME ACTION AND EFFECT IN UCP OF PACKAGE AND UCP WILL ACTIVE TWO ESD FEEDBACKS.

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.

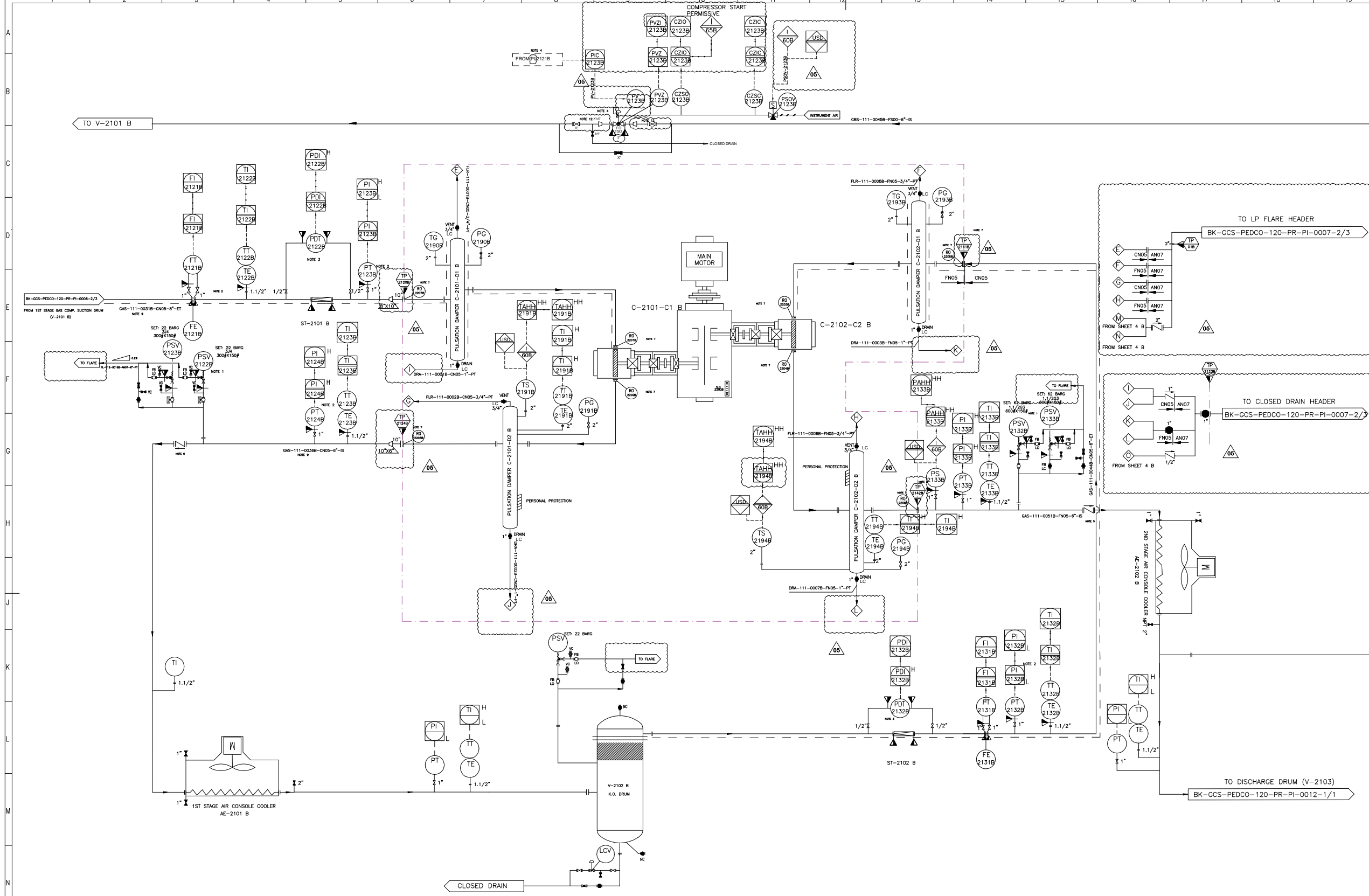
Legend :

V05	DEC 2024	AFC	HAVAYAR Co	M.FAKHARIAN	M.SADEGHIAN	
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 UNIT CONTROL PANEL					
SCALE	SIZE	DRAWING NO.		SHEET NO.	REV.
N.T.S.C.	A3	BK-GCS-HY-120-PR-PI-0001		9A OF 10	

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





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

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

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)	1780*661
NOMINAL CAPACITY (M3)	0.71

V05	JAN 2025		AFC	HAVAYAR Co	M.FAKHARIAN	S.FARHAMPZPUR	
V04	MAY 2024		AFC	HAVAYAR Co	M.FAKHARIAN	S.FARHAMPZPUR	
V03	JAN 2024		AFC	HAVAYAR Co	M.FAKHARIAN	S.FARHAMPZPUR	
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		PEDCO	

REFERENCE DRAWINGS

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

DWG. NUMBER

BK-GCS-PEDCO-120-ME-PR-001_006
BK-GCS-PEDCO-120-PR-PR-006_006
BK-GCS-PEDCO-120-PR-PR-007_006
BK-GCS-PEDCO-120-PR-PR-008_006
BK-GCS-PEDCO-120-PR-PR-009_006
BK-GCS-PEDCO-120-PR-PR-010_006
BK-GCS-PEDCO-120-PR-PR-011_006
BK-GCS-PEDCO-120-PR-PR-012_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
		CHECKED		REV. APPR.	

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

BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES

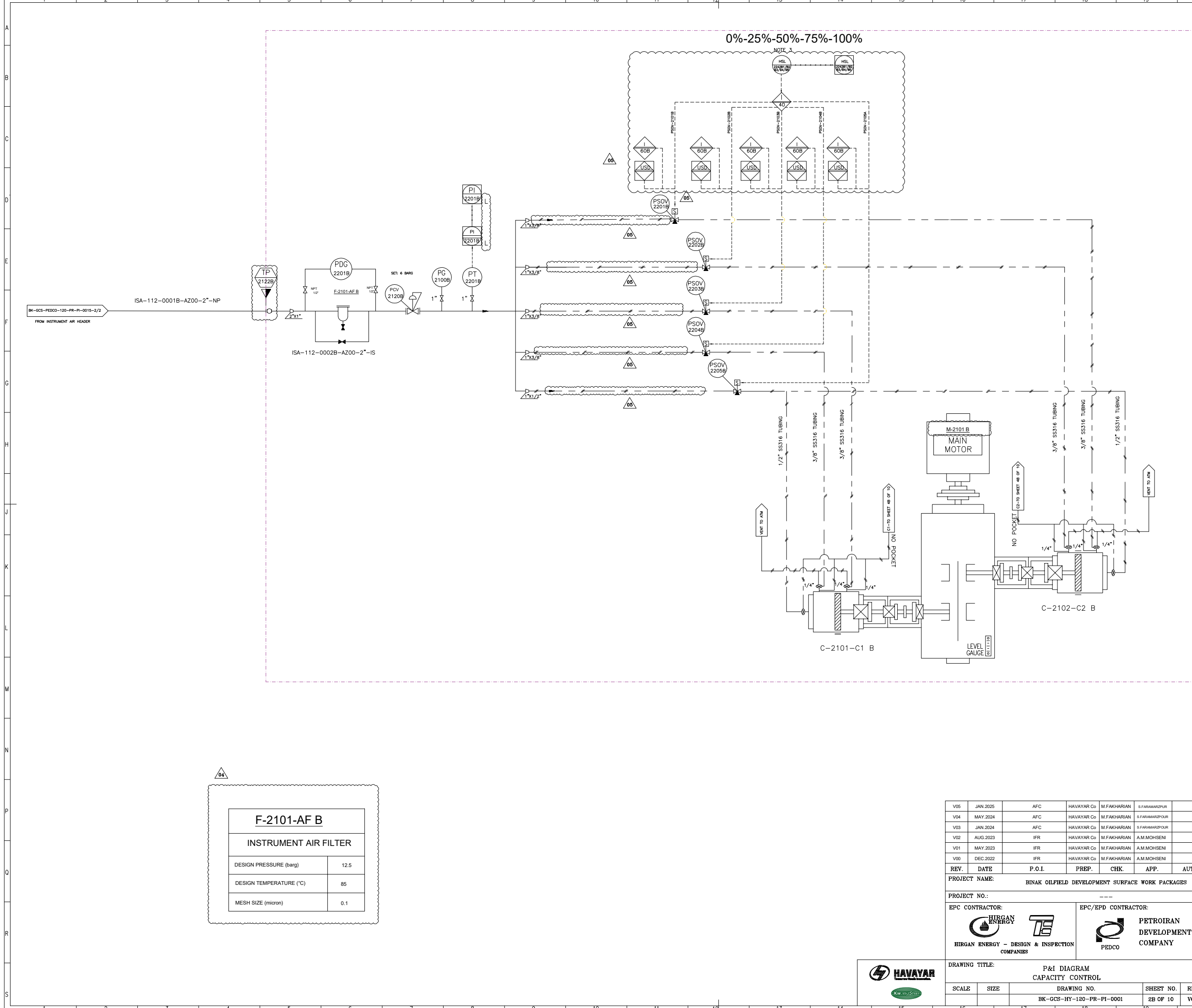
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

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

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

Legend :

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.
		BK-GCS-HY-120-PR-PI-0001	2B OF 10

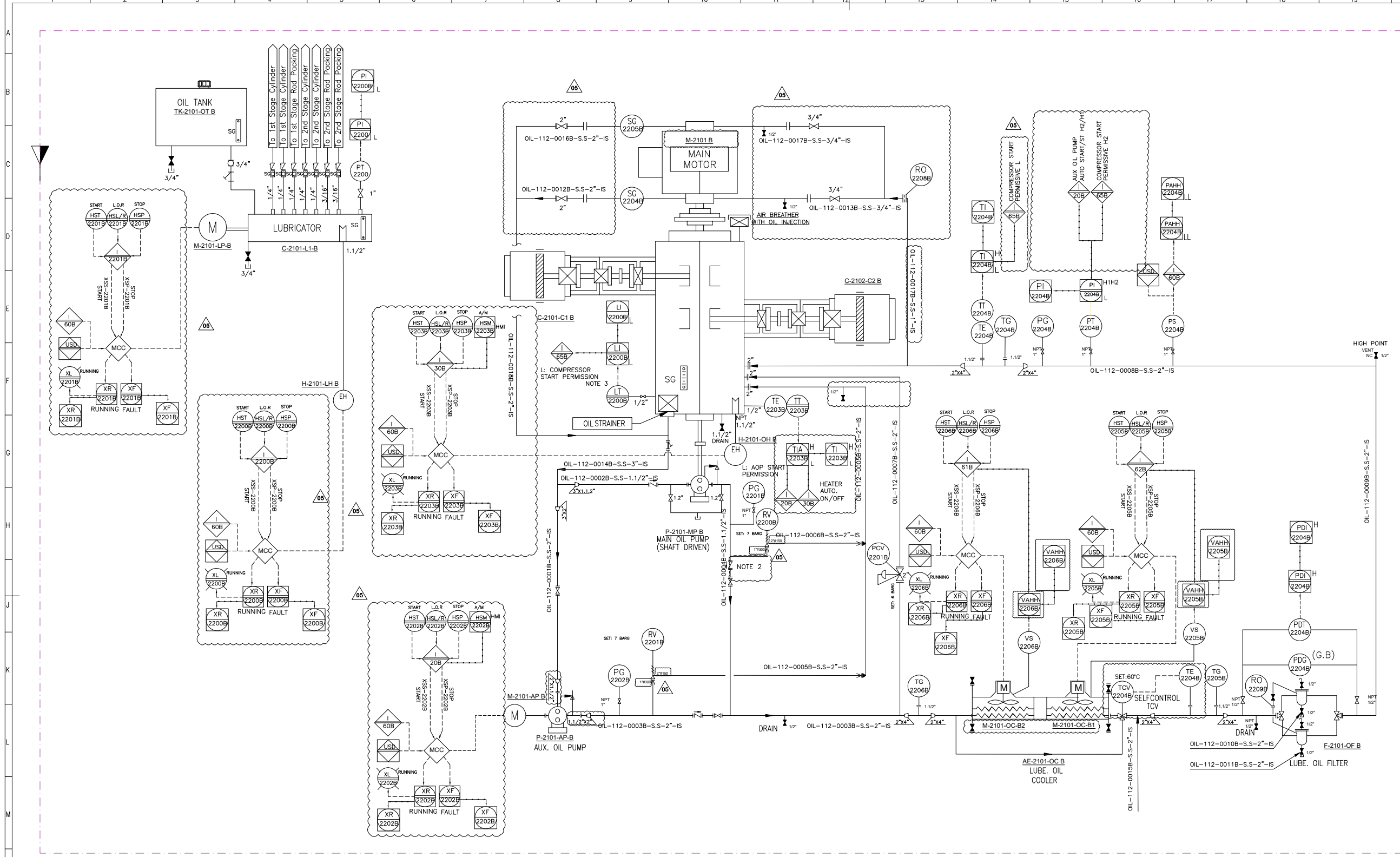
REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED					
APPROVED FOR CONSTRUCTION		BY:		DATE:	
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET
					REVISION

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

BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.
------	-------	------------	------------	--------------





REFERENCE DRAWINGS

DWG. NUMBER

Note :

- 1. DELETED.
- 2. DRILLED TYPE CHECK VALVE.
- 3. DIFFERENTIAL PRESSURE TYPE.

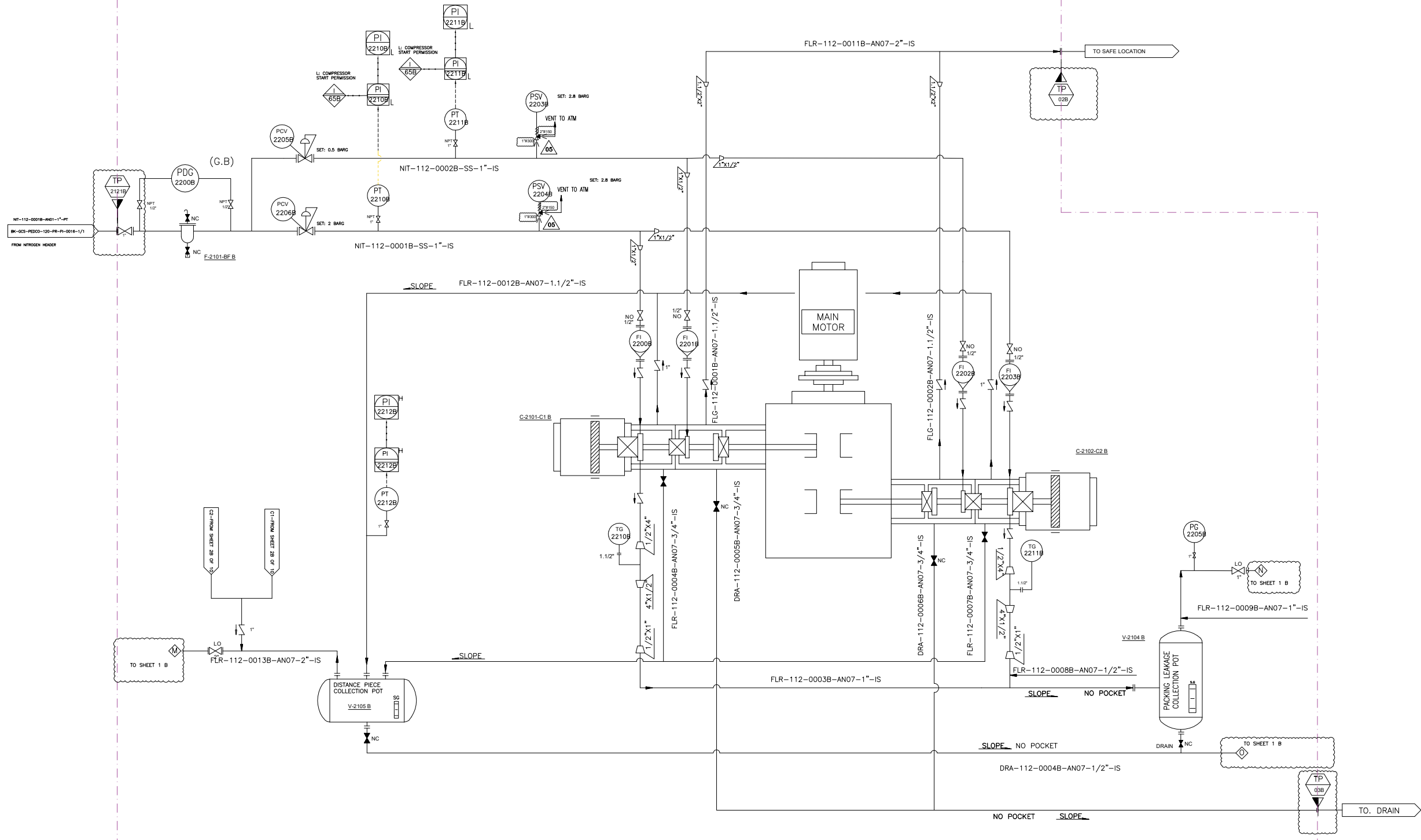
Legend :

TK-2101-OT B	P-2101-MP B	P-2101-AP B	F-2101-OF B	AE-2101-OC B
OIL TANK	MAIN OIL PUMP	AUX. OIL PUMP	LUBE OIL FILTER	LUBE OIL COOLER
INSULATION	DESIGN PRESSURE (barg)	DESIGN PRESSURE (barg)	DESIGN PRESSURE (barg)	TYPE
NO	10	10	10	AIR COOLER
DESIGN TEMPERATURE (°C)	RATED POWER	RATED POWER (kW)	DESIGN TEMPERATURE (°C)	DESIGN PRESSURE (barg)
85	SHAFT DRIVEN	7.5	85	10
DESIGN PRESSURE (BARG)	RATED CAPACITY (L/min)	RATED CAPACITY (L/min)	MATERIAL	DESIGN TEMPERATURE (°C)
3.5	131	131	S.S	85
NOMINAL CAPACITY (LIT)	MATERIAL	MATERIAL	MESH SIZE (MICRON)	MATERIAL
80	CAST IRON	CAST IRON	10	S.S
DIMENTION (L*W*H) (MM)				
M-2101-LP B	H-2101-LH B	H-2101-OH B		
LUBRICATOR PUMP MOTOR	LUBRICATOR HEATER	CRANK CASE OIL HEATER		
OPERATING PRESSURE (barg)	MATERIAL	MATERIAL		
5.5 ~ 7	S.S.	S.S		
RATED POWER (kW)	RATED POWER (kW)	RATED POWER (kW)		
0.4	0.5	1.5		

V05	JAN 2025		AFC	HAVAYAR Co	M.FAKHARIAN	S.FARHAMPZPUR	
V04	MAY 2024		AFC	HAVAYAR Co	M.FAKHARIAN	S.FARHAMPZPUR	
V03	JAN 2024		AFC	HAVAYAR Co	M.FAKHARIAN	S.FARHAMPZPUR	
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 LUBRICATION SYSTEM					
SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.	
		BK-GCS-HY-120-PR-PI-0001	3B OF 10	V05	

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS					
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



V-2104 B	
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 B	
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 B	
DISTANCE PIECE COLLECTING POT	
DESIGN PRESSURE (barg)	5
DESIGN TEMPERATURE (°C)	85
DIMENTION (TL*TL*OD) (MM)	500*273
NOMINAL CAPACITY (M3)	0.03



V05	JAN.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARHAMRZPUR	
V04	MAY.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARHAMRZPUR	
V03	JAN.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARHAMRZPUR	
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			4B OF 10	V05

Note :

Legend :

اصل و کتبہ نسخہ این نقشہ و این حق تعالیٰ متعلق بہ شرکت ملی مناطق نفت خیز جنوب می باشد.



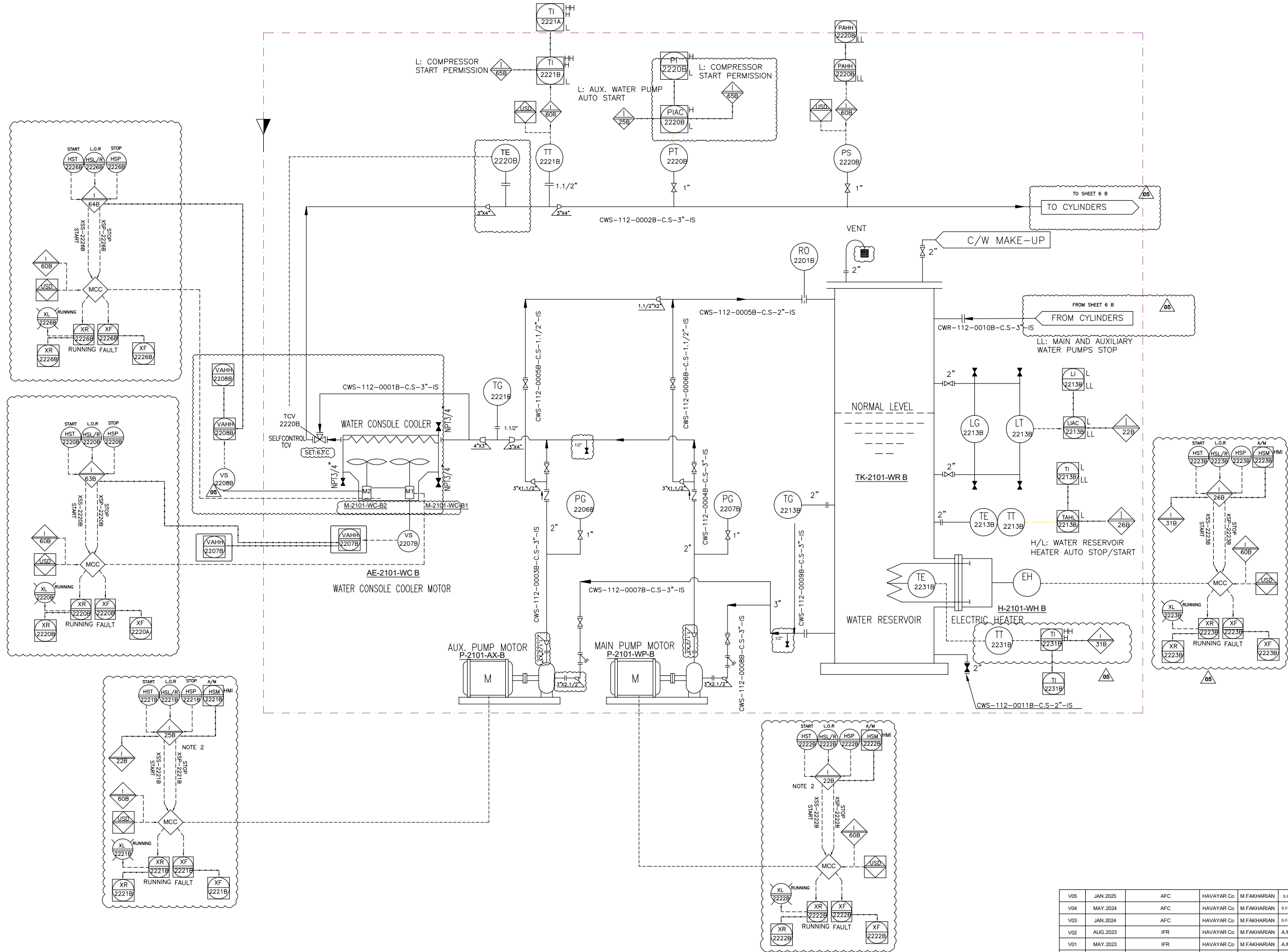
THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH
THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF
N.I.S.O.C./ FIELDS

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 B	
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 B	
MAIN WATER PUMP	
TYPE	CENTRIFUGAL
RATED POWER (KW)	5.5
OPERATING CAPACITY (TON/H)	15.3
RATED HEAD (M)	40

P-2101-AX B	
AUX. WATER PUMP	
TYPE	CENTRIFUGAL
RATED POWER (KW)	5.5
OPERATING CAPACITY (TON/H)	15.3
RATED HEAD (M)	40

H-2101-WH B	
WATER HEATER	
TYPE	ELECTRICAL
RATED POWER (KW)	13.5

TK-2101-WR B	
WATER RESERVOIR	
DESIGN PRESSURE (barg)	3.5
DESIGN TEMPERATURE (°C)	85
DIMENTION (TL*OD) (MM)	1600*1312
NOMINAL CAPACITY (M3)	2.7
INSULATION	YES

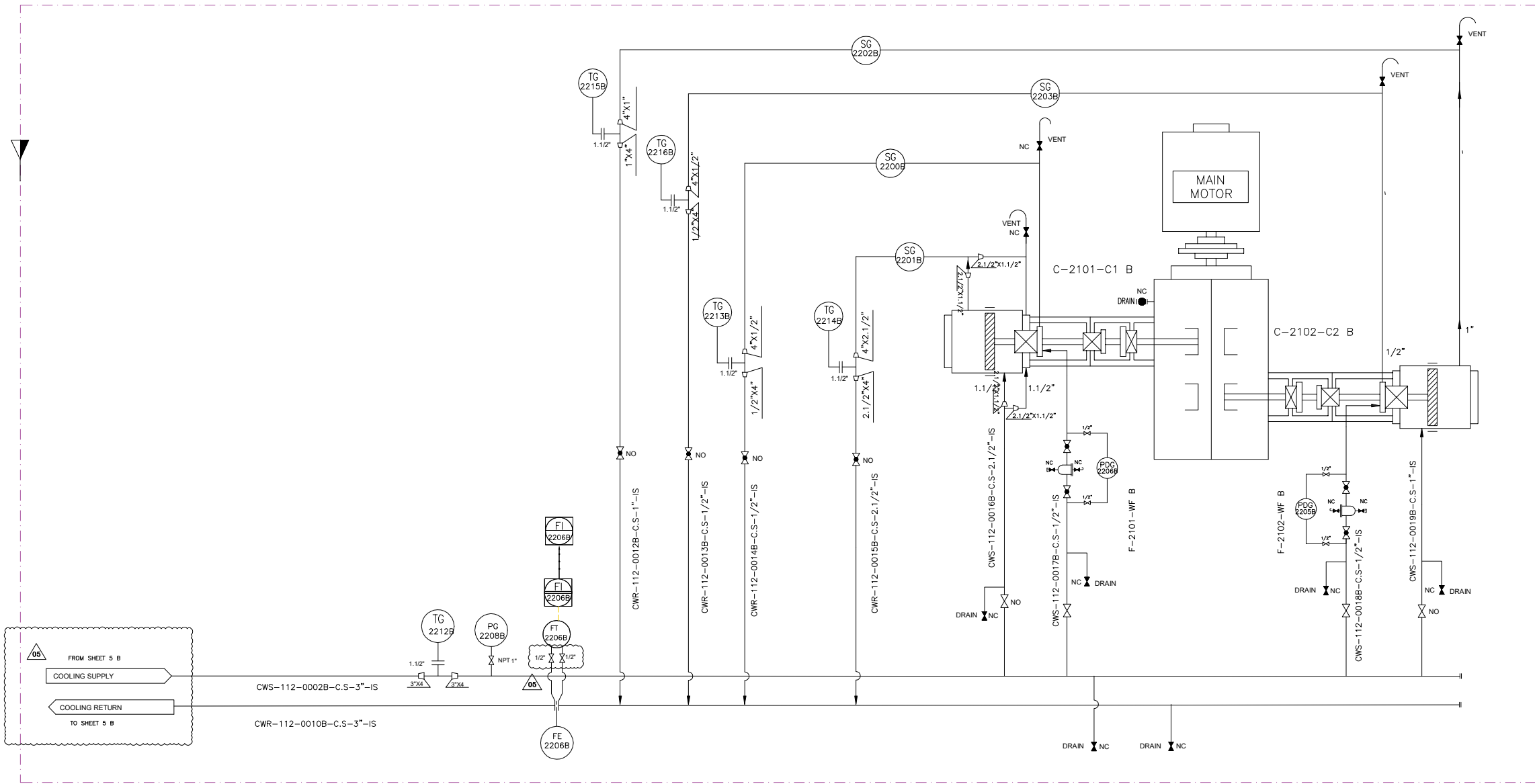
V05	JAN. 2025		AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPOUR
V04	MAY. 2024		AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPOUR
V03	JAN. 2024		AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMARZPOUR
V02	AUG. 2023		IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI
V01	MAY. 2023		IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI
V00	DEC. 2022		IFR	HAVAYAR 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			5B OF 10		V05		

Note :
1. DELETED.
2. I-22 INTERLOCK HAS PRIORITY OVER I-25

Legend :

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS					
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

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-P1-0001	6B OF 10	V05		

REFERENCE DRAWINGS		DWG. NUMBER
1.P&ID - 1ST STAGE COMPRESSION COMPRESSORS		BK-GCS-PEDCO-120-PR-0007_002
2.P&ID - 2ND STAGE COMPRESSION COMPRESSORS		BK-GCS-PEDCO-120-PR-0010_002

Note :

Legend :

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

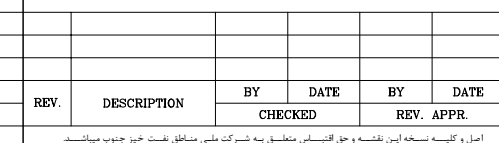
BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES

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



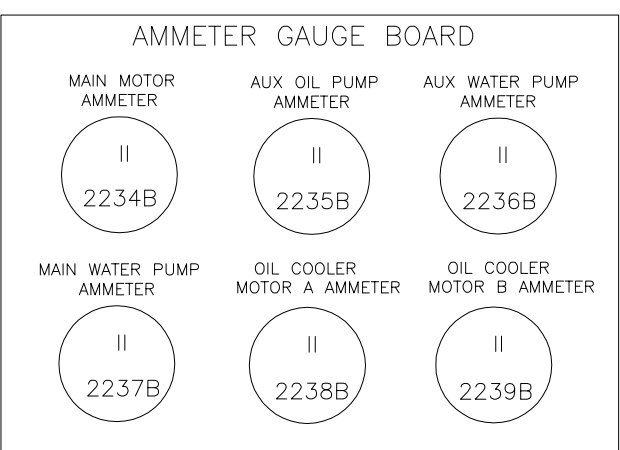
 THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS									
BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES									
DATE		SCALE		DRAWING BY		CHECKED BY		PROJECT ENG	
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED									
APPROVED FOR CONSTRUCTION					BY:		DATE:		
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.		SHEET		REVISION	

LCP-2101B



Note :
Signals of LCP will be connected to UCP.

Legend :

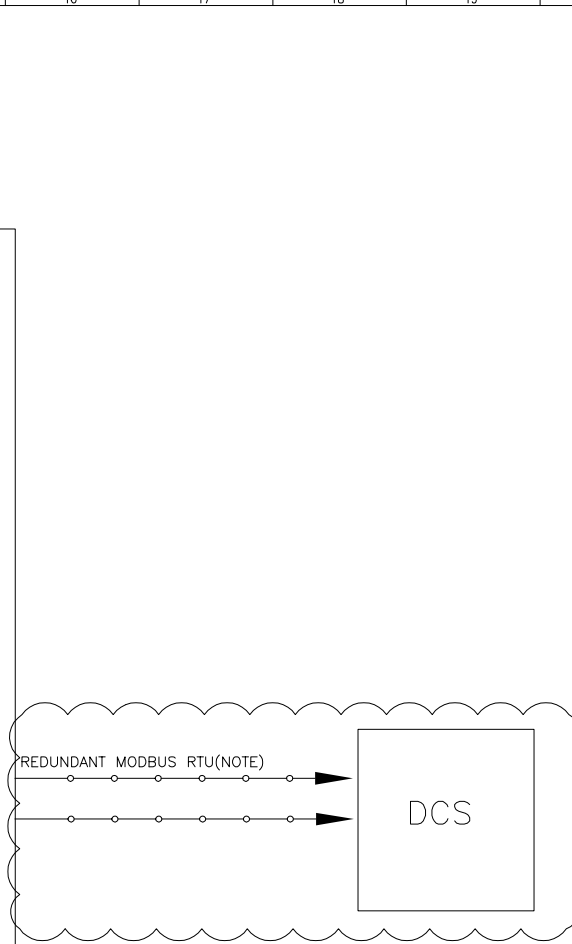
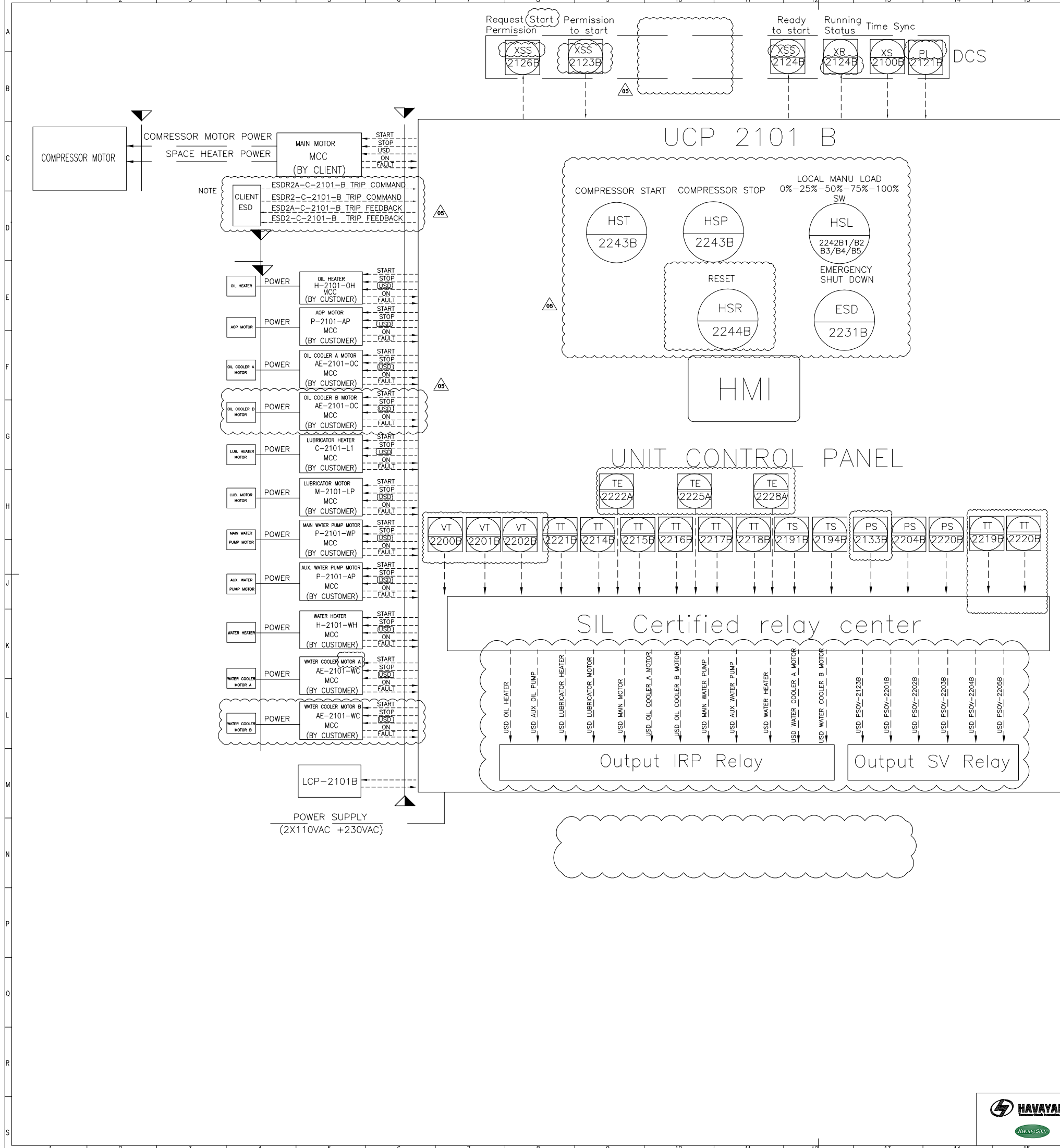


05

V05	JAN 2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMRZPUR	
V04	MAY 2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMRZPUR	
V03	JAN 2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARAMRZPUR	
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-PI-0001			8B OF 10	V05
16		17		18		19

REV.	DESCRIPTION				BY	DATE	BY	DATE
					CHECKED		REV. APPR.	
اصل و کتبه نسخه این نقشه و حق اقتباسی متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد								
THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS								
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
0		21		22		A0		





REFERENCE DRAWINGS	DWG. NUMBER

Note :
ACTION OF ALL ESD COMMANDS WILL HAVE SAME ACTION AND EFFECT IN UCP OF PACKAGE AND UCP WILL ACTIVE TWO ESD FEEDBACKS.
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.

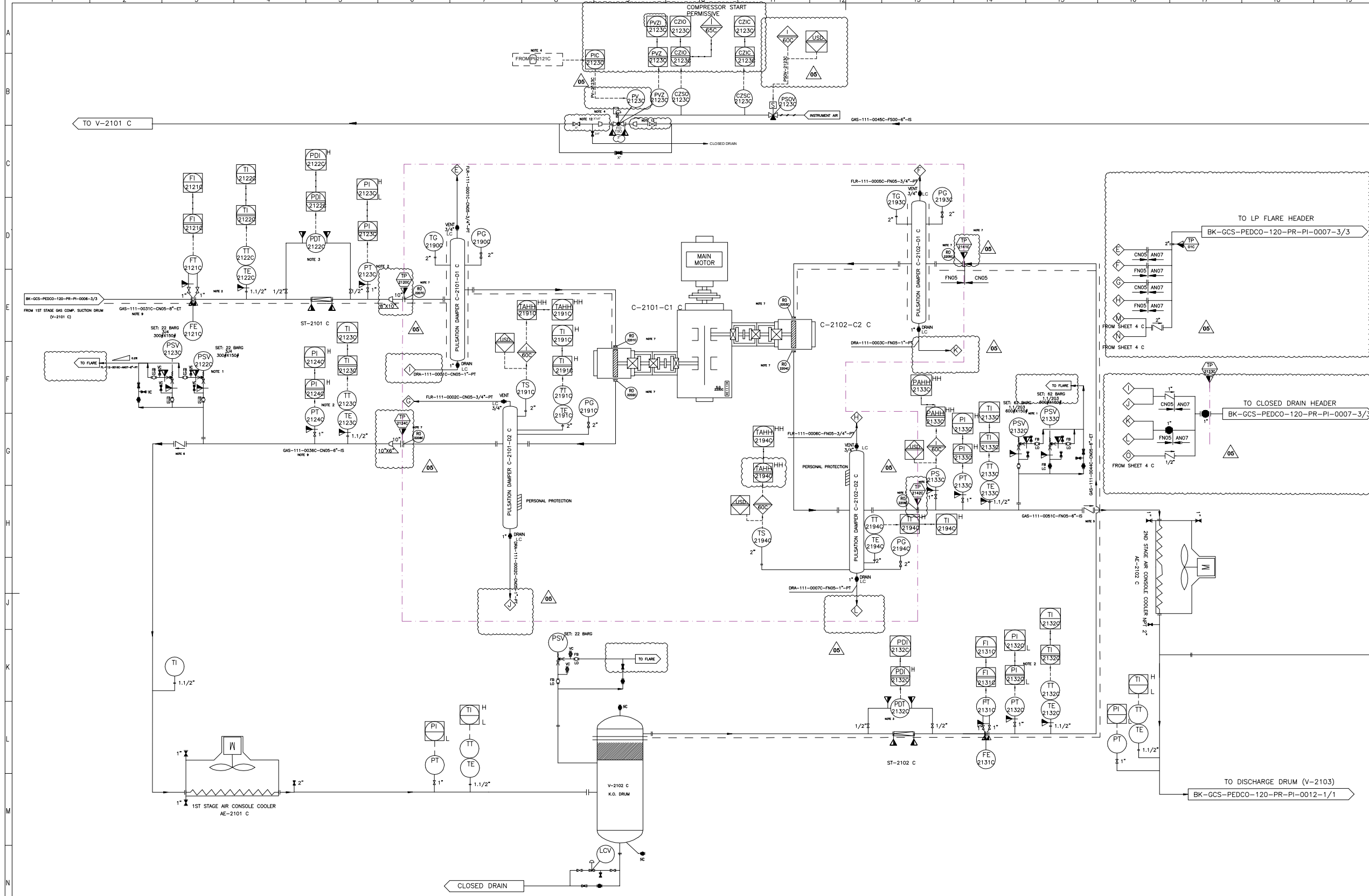
Legend :

V05	DEC 2024	AFC	HAVAYAR Co	M.FAKHARIAN	M.SADEGHIAN	
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 UNIT CONTROL PANEL	
SCALE	SIZE	DRAWING NO.	SHEET NO.
N.T.S.	A3	BK-GCS-HY-120-PR-PI-0001	9B OF 10

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS					
BINAQ 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





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

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

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

V05	JAN 2025		AFC	HAVAYAR Co	M.FAKHARIAN	S.FARHARZPOUR	
V04	MAY 2024		AFC	HAVAYAR Co	M.FAKHARIAN	S.FARHARZPOUR	
V03	JAN 2024		AFC	HAVAYAR Co	M.FAKHARIAN	S.FARHARZPOUR	
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-ME-PR-001_006
BK-GCS-PEDCO-120-PR-PR-006_006
BK-GCS-PEDCO-120-PR-PR-007_006
BK-GCS-PEDCO-120-PR-PR-008_006
BK-GCS-PEDCO-120-PR-PR-009_006
BK-GCS-PEDCO-120-PR-PR-010_006
BK-GCS-PEDCO-120-PR-PR-011_006
BK-GCS-PEDCO-120-PR-PR-012_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

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

BINAQ 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

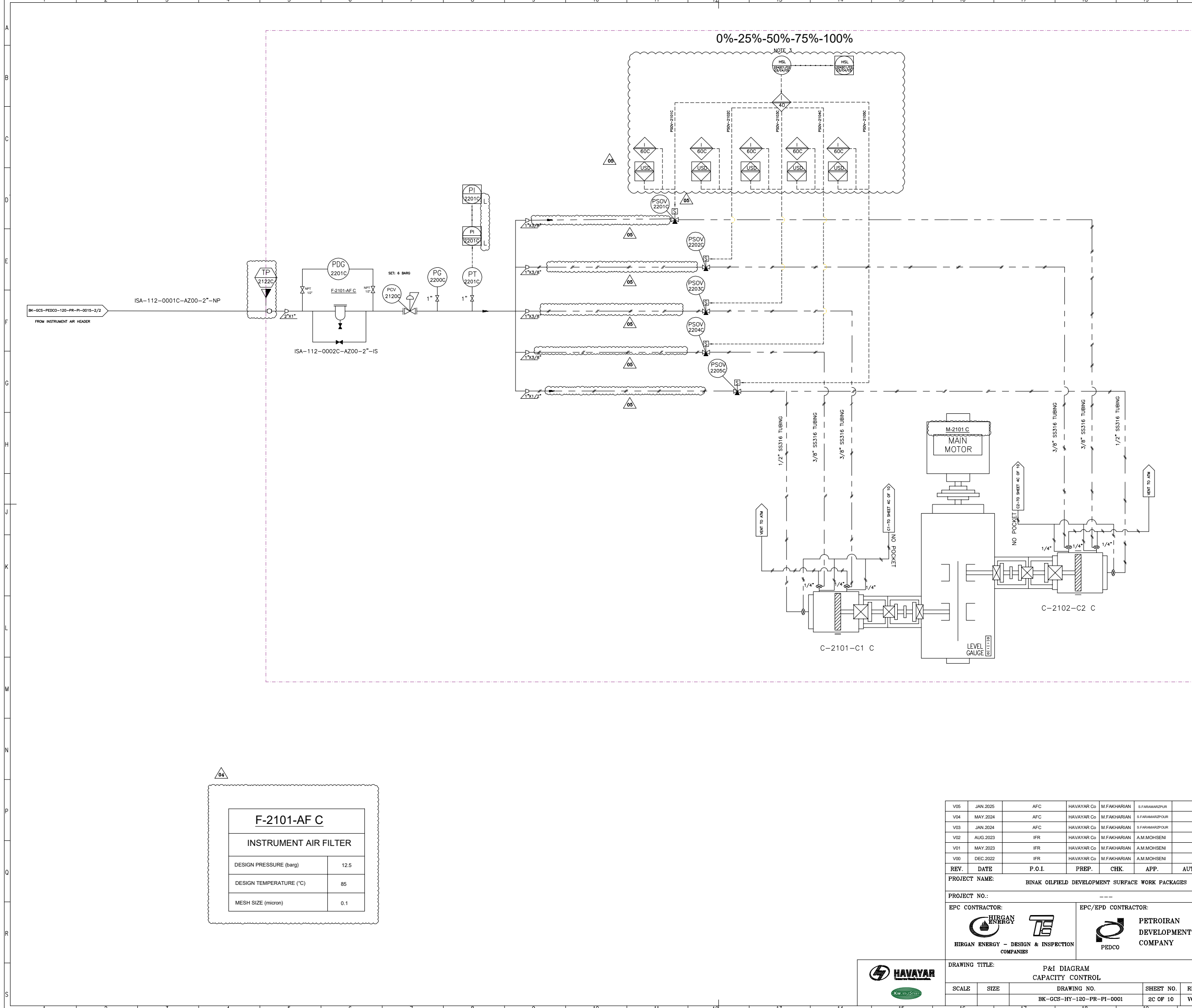
CLASS

SERIAL NO.

SHEET

REVISION





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

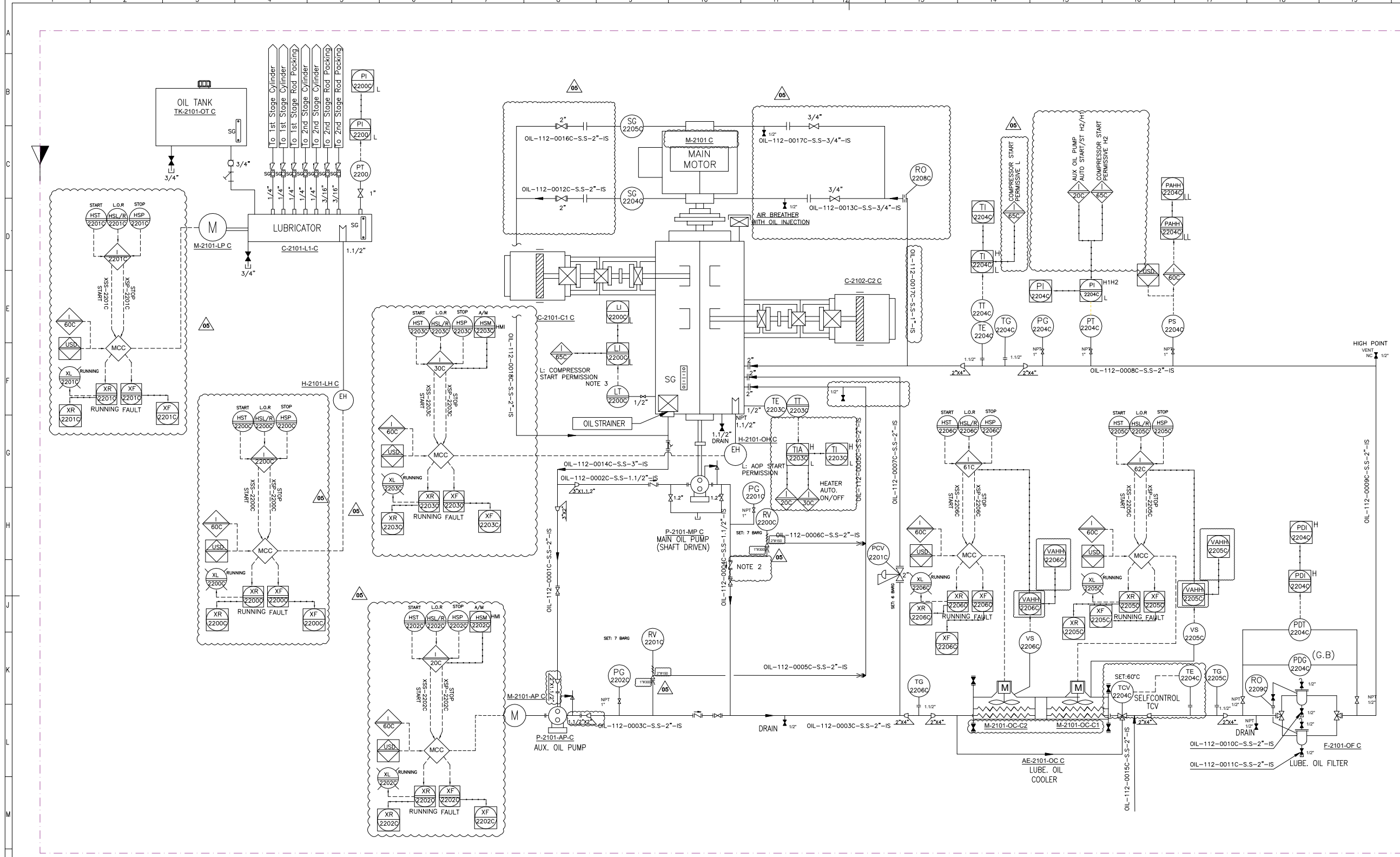
Note :
1. DELETED.
2. THE UNLOADERS ARE AIR TO LOAD TYPE.
3. CAPACITY CONTROL WILL BE PERFORMED FROM UCP.

Legend :

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:						

REV.	DESCRIPTION	BY	DATE	BY	DATE				
		CHECKED		REV.	APPR.				
اصل و کاپيه نسخه اين نقشه و حق قضايتي متعلق به شرکت ملی مناطق خپر جنوب مي باشد									
 THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C. / FIELDS									
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			





REFERENCE DRAWINGS										A0
DWG. NUMBER										

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

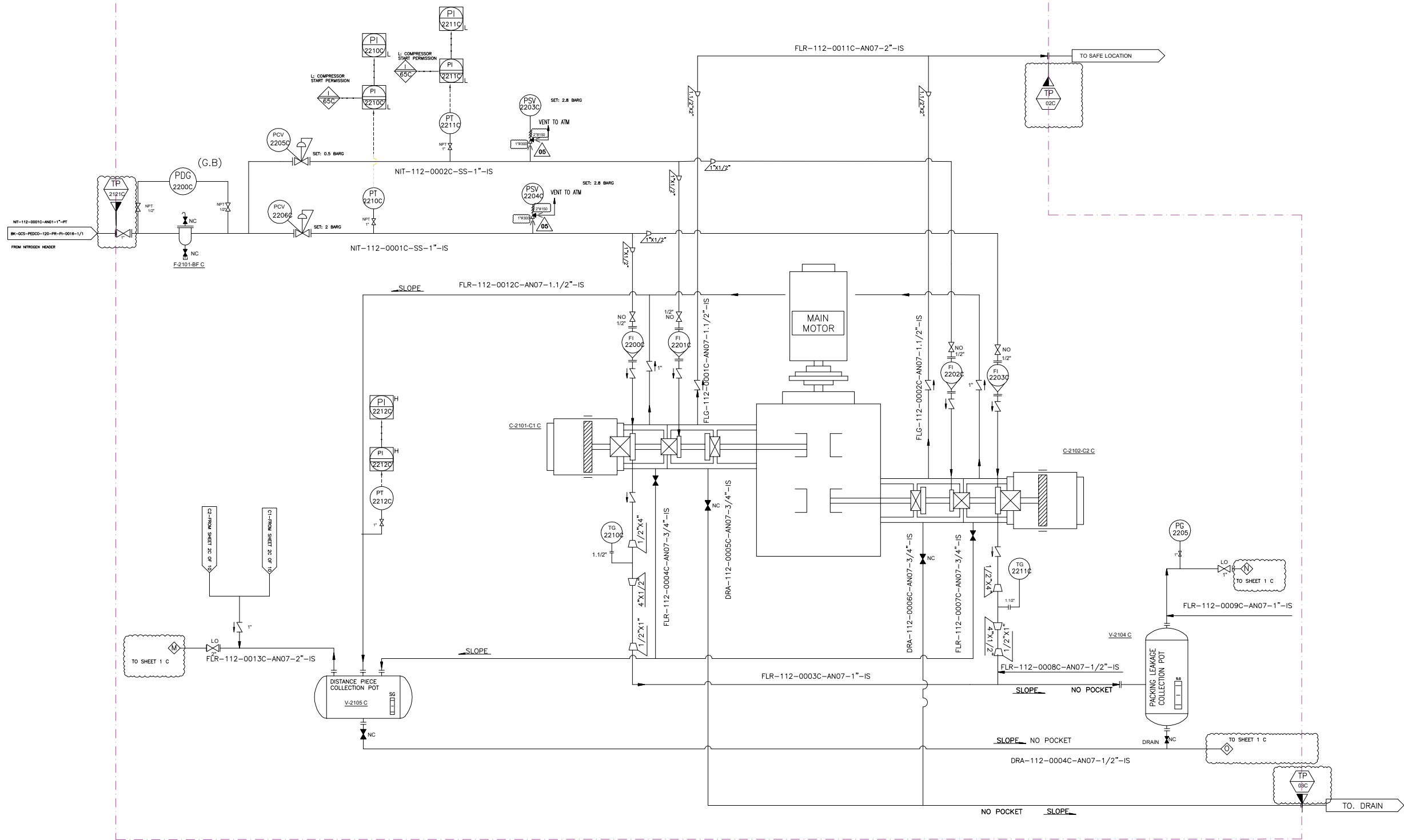
Legend :									
----------	--	--	--	--	--	--	--	--	--

TK-2101-OT C 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 C LUBRICATOR PUMP MOTOR OPERATING PRESSURE (barg) 5.5 ~ 7 RATED POWER (kW) 0.4	P-2101-MP C MAIN OIL PUMP DESIGN PRESSURE (barg) 10 RATED POWER SHAFT DRIVEN RATED CAPACITY (L/min) 131 MATERIAL CAST IRON	P-2101-AP C AUX. OIL PUMP DESIGN PRESSURE (barg) 10 RATED POWER (kW) 7.5 RATED CAPACITY (L/min) 131 MATERIAL CAST IRON	F-2101-OF C LUBE OIL FILTER DESIGN PRESSURE (barg) 10 DESIGN TEMPERATURE (°C) 85 MATERIAL S.S. MESH SIZE (MICRON) 10	AE-2101-OC C LUBE OIL COOLER TYPE AIR COOLER DESIGN PRESSURE (barg) 10 DESIGN TEMPERATURE (°C) 85 MATERIAL S.S.
	H-2101-LH C LUBRICATOR HEATER MATERIAL S.S. RATED POWER (kW) 0.5	H-2101-OH C CRANK CASE OIL HEATER MATERIAL S.S. RATED POWER (kW) 1.5		

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.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							

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		3C OF 10	V05

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

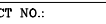


V-2104 C	
PACKING LEAKAGE COLLECTING POT	
DESIGN PRESSURE (barg)	5
DESIGN TEMPERATURE (°C)	85
DIMENTION (TL*TL*OD) (MM)	500*273
NOMINAL CAPACITY (M3)	0.03

F-2101-BF C	
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 C	
DISTANCE PIECE COLLECTING POT	
DESIGN PRESSURE (barg)	5
DESIGN TEMPERATURE (°C)	85
DIMENTION (TL*TL*OD) (MM)	500*273
NOMINAL CAPACITY (M3)	0.03

V05	JAN.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARHAMRZPUR	
V04	MAY.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARHAMRZPUR	
V03	JAN.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARHAMRZPUR	
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	



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

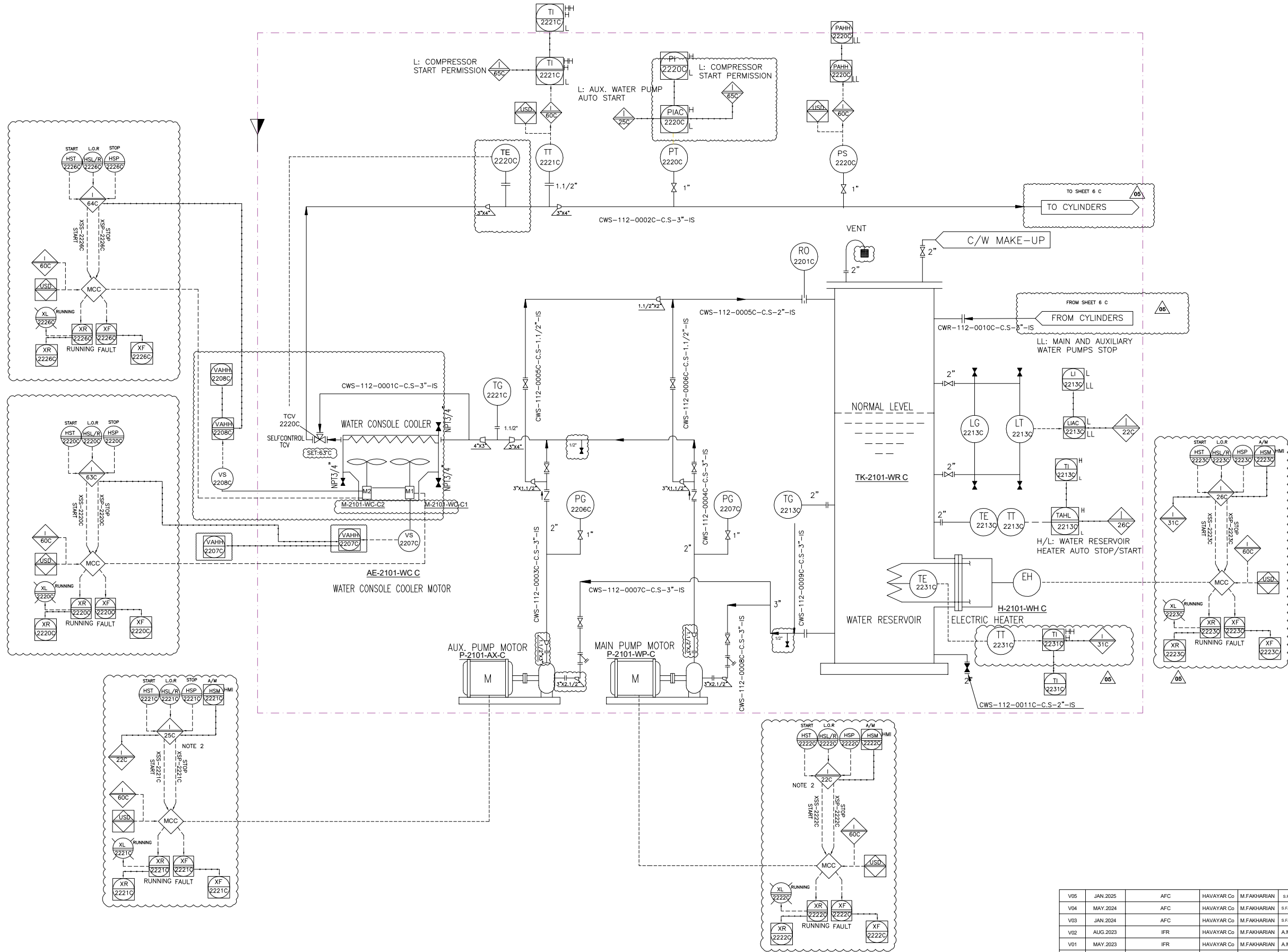
BINAK OILFIELD DEVELOPMENT
SURFACE WORK PACKAGES

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

Note :

Legend :





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

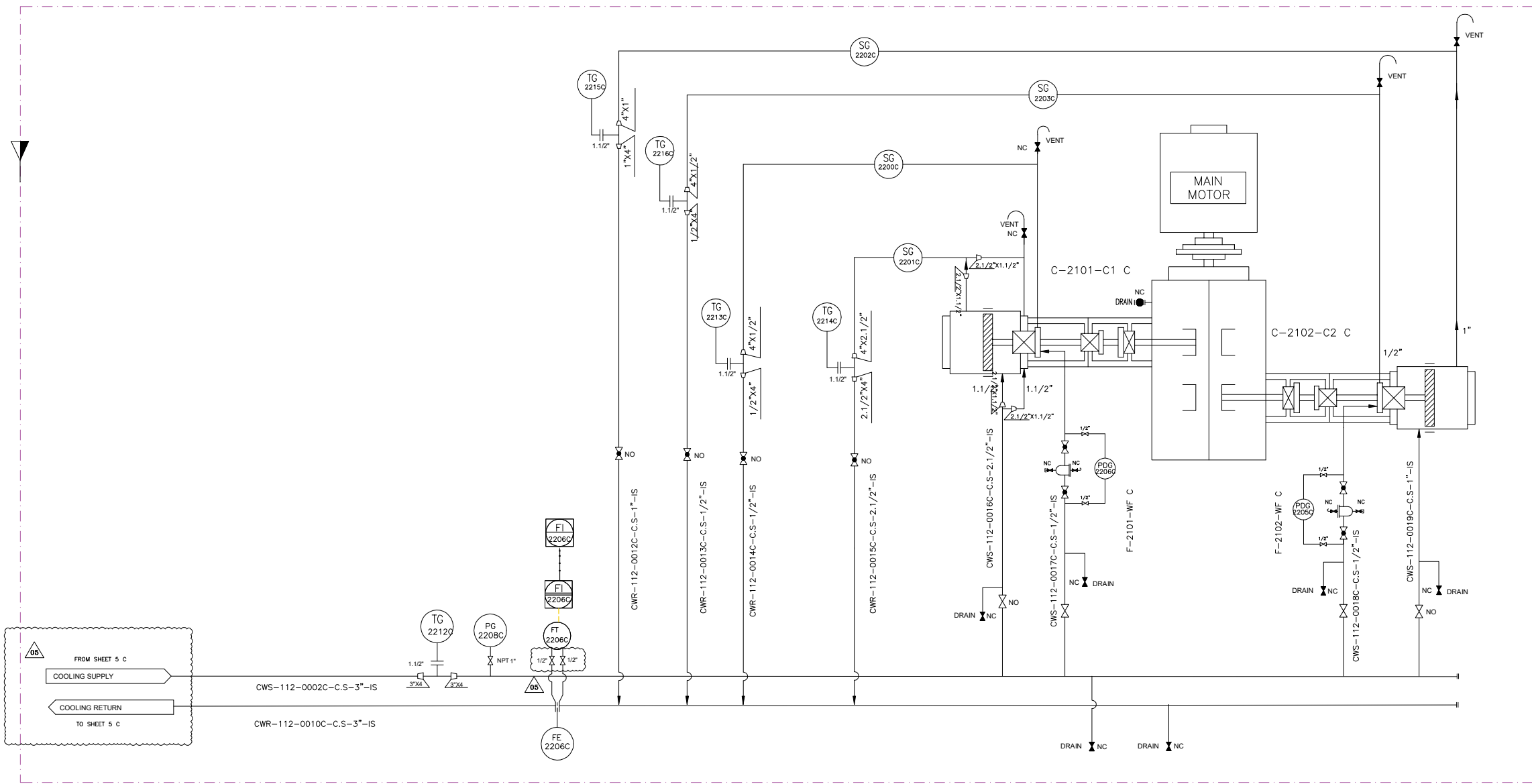
V05	JAN. 2025		AFC	HAVAYAR Co	M.FAKHARIAN	S.FARHARZPOUR
V04	MAY. 2024		AFC	HAVAYAR Co	M.FAKHARIAN	S.FARHARZPOUR
V03	JAN. 2024		AFC	HAVAYAR Co	M.FAKHARIAN	S.FARHARZPOUR
V02	AUG. 2023		IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI
V01	MAY. 2023		IFR	HAVAYAR Co	M.FAKHARIAN	A.M.MOHSENI
V00	DEC. 2022		IFR	HAVAYAR 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 PLAN D COOLING WATER SYSTEM									
SCALE		SIZE		DRAWING NO.			SHEET NO.		REV
				BK-GCS-HY-120-PR-PI-0001			5C OF 10		V05

Note :
1. DELETED.
2. I-22 INTERLOCK HAS PRIORITY OVER I-25

Legend :

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS					
BINA K 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 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

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			6C OF 10	V05

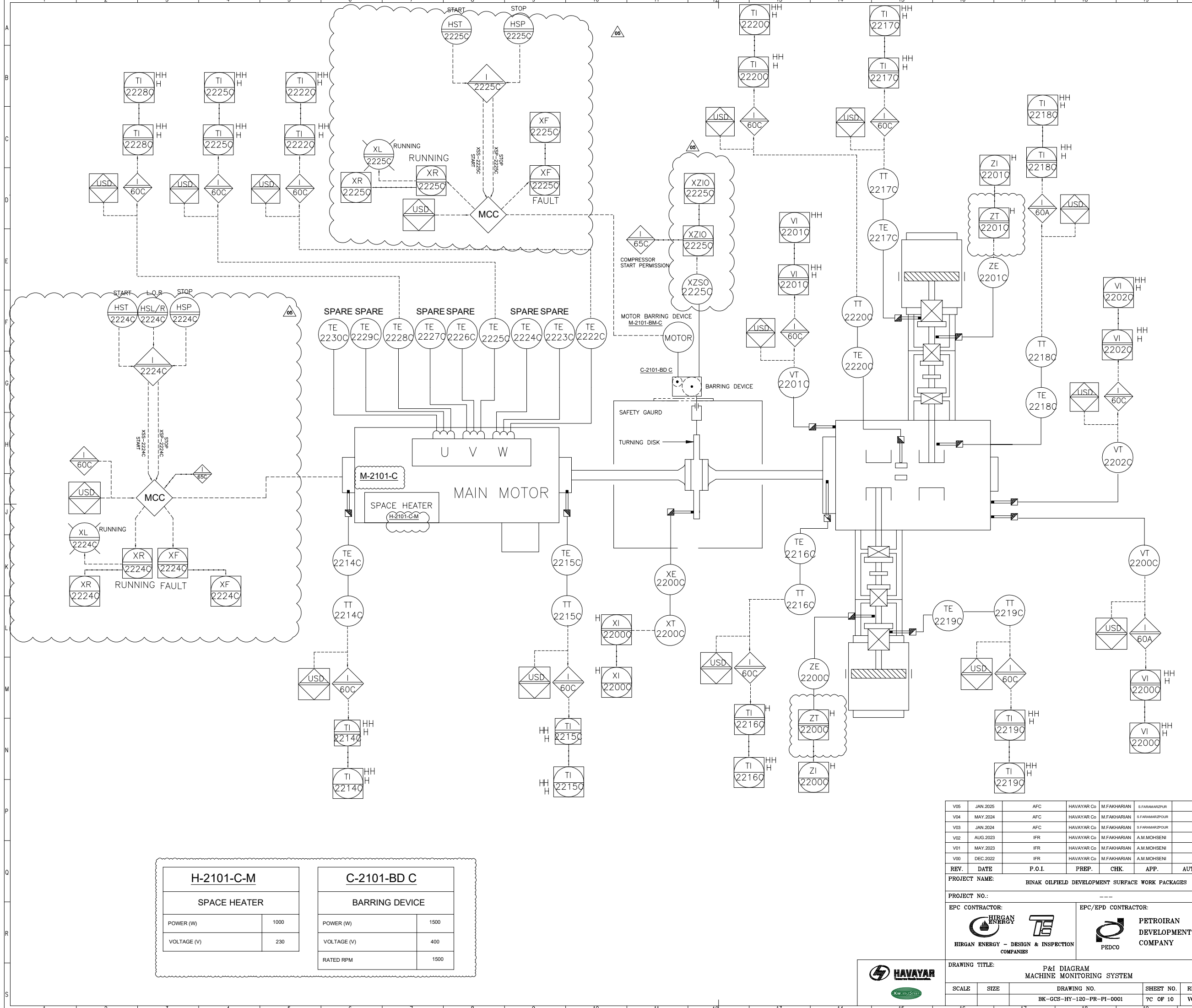
REFERENCE DRAWINGS		DWG. NUMBER
1.P&ID - 1ST STAGE COMPRESSION COMPRESSORS		BK-GCS-PEDCO-120-PR-4B-0007_002
2.P&ID - 2ND STAGE COMPRESSION COMPRESSORS		BK-GCS-PEDCO-120-PR-PI-0010_002

Note :

Legend :

REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS					
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-C-M		C-2101-BD C	
SPACE HEATER		BARRING DEVICE	
POWER (W)	1000	POWER (W)	1500
VOLTAGE (V)	230	VOLTAGE (V)	400
		RATED RPM	1500

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			

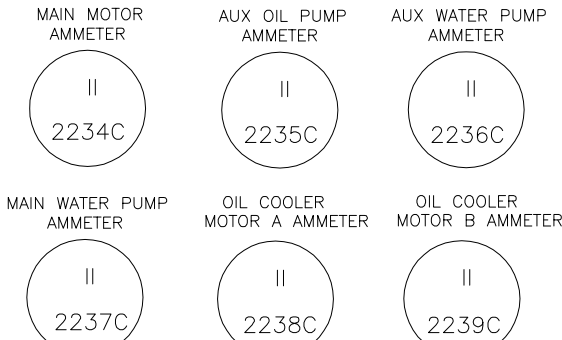
DRAWING TITLE: P&I DIAGRAM MACHINE MONITORING SYSTEM						
SCALE	SIZE	DRAWING NO.		SHEET NO.	REV.	
		BK-GCS-HY-120-PR-PI-0001		7C OF 10	V05	

REFERENCE DRAWINGS		DWG. NUMBER	
Note :			
Legend :			
REV.	DESCRIPTION	BY	DATE
		CHECKED	REV. APPR.
THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS			
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	

LCP-2101C



AMMETER GAUGE BOARD



05

V05	JAN.2025	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARHAMRZPOUR	
V04	MAY.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARHAMRZPOUR	
V03	JAN.2024	AFC	HAVAYAR Co	M.FAKHARIAN	S.FARHAMRZPOUR	
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-PI-0001	8C OF 10	V05

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

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



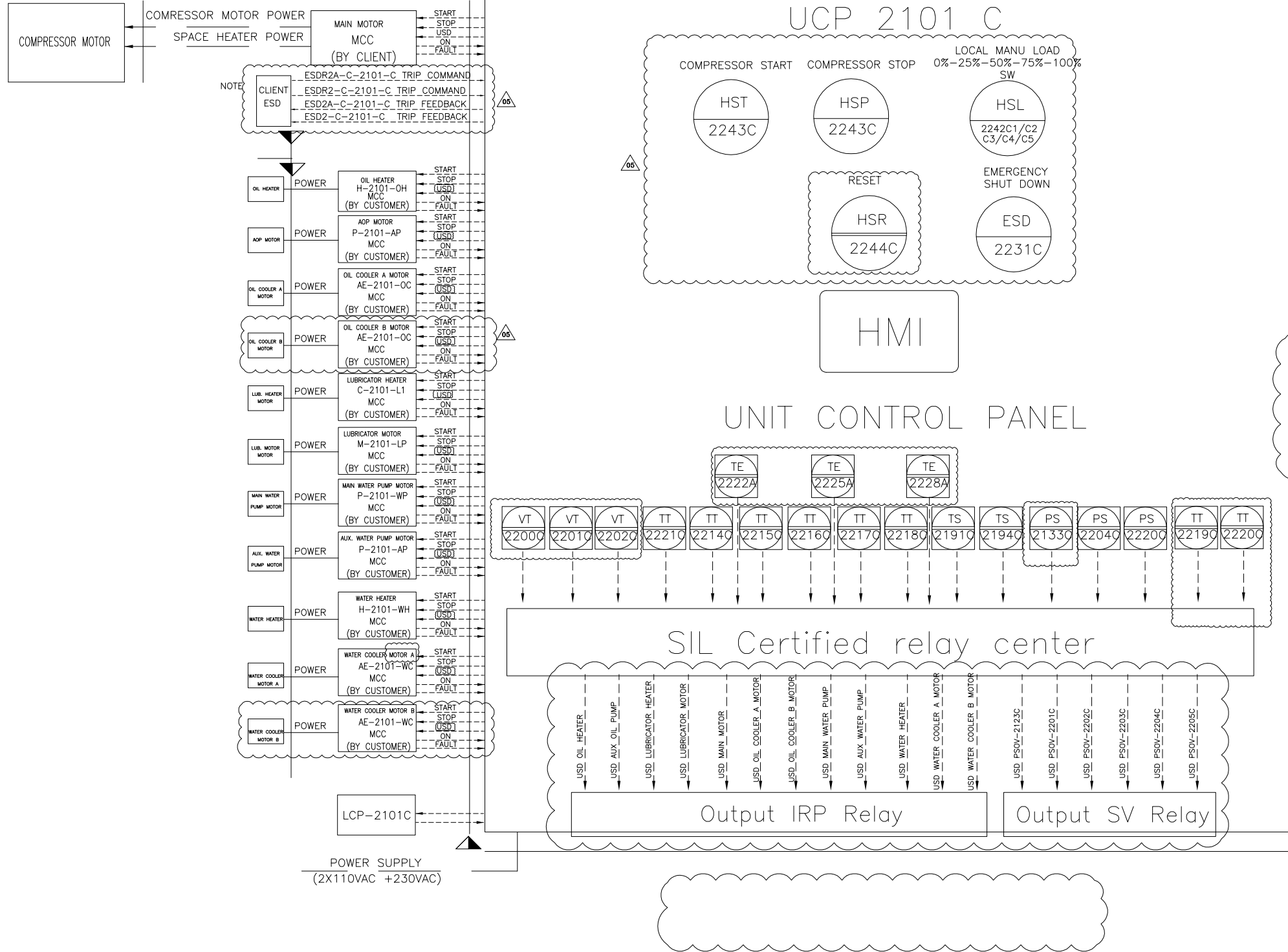
اسم و کلیه نسخه این نقشه و حق اقتباسی متعلق به شرکت ملی نفت خزر جنوب میباشد

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

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 | | | | | | |

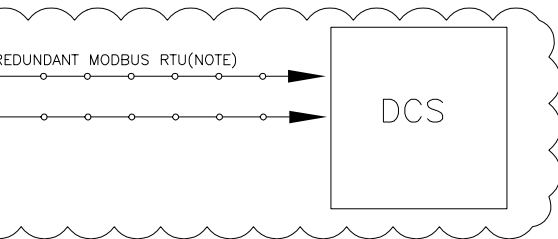


Note :
ACTION OF ALL ESD COMMANDS WILL HAVE SAME ACTION AND EFFECT IN UCP OF PACKAGE AND UCP WILL ACTIVE TWO ESD FEEDBACKS.

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 :



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: BINAQ 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 UNIT CONTROL PANEL

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
		BK-GCS-HY-120-PR-P1-0001	9C OF 10	V05

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

BINAQ 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



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		ESD INTERLOCK
	PRESSURE INDICATOR		FLOW GAUGE		SELF PRESS. REDUCING REGULATOR		LUB. OIL LINE		Trip Relay Center in UCP		PLANT ESD
	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		(G.B) GAUGE BOARD		PACKAGE TRIP		VENT

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 DAMPENER	PD
PUMP	P
SCALE, WEIGHING, MEASURING	SC
SILENCER, MUFFLER	SI
STACK, CHIMNY	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

CDH	CLOSED 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 STEE
X	NON METALPIPE
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		4 TH DIGIT FOR METAL PIPE		4 TH DIGIT 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 NO		
1	ASME B 31.4 (FOR LIQUID PIPELINES)	2	1 mm YES	2	PE
		4	3 mm NO		
2	ASME B 31.8 (FOR GAS PIPELINES)	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
TBB	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



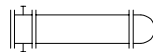
ROTARY PUMP WITH INTERNAL RELIEF VALVE



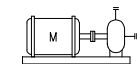
AIR COOLER



SEPARATOR



SHELL AND TUBE EXCHANGER



CENTRIFUGAL PUMP

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 SYMBOL AND LEGEND

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
		BK-GCS-HY-120-PR-Pi-0001	10 OF 10	V05

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

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 Autodesk File No BK-GCS-HY-120-PR-Pi-0001-V05.dwg