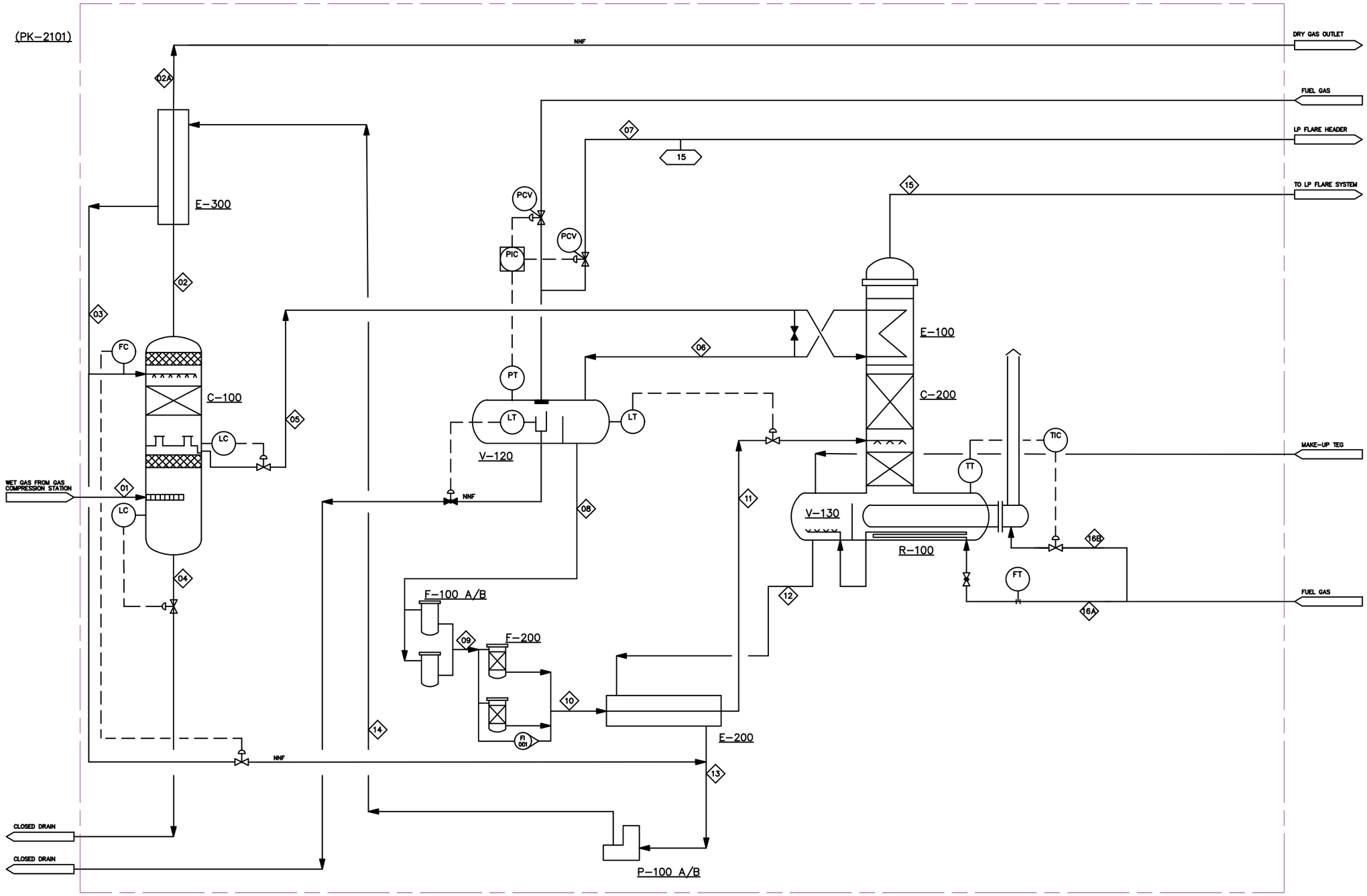

NOTES

1. REFER TO HEAT AND MATERIAL BALANCE – TEG DEHYDRATION UNIT AND TEG REGENERATION FOR STEAM DETAILS.
2. FACILITIES SHOWN VENDOR PACKAGE. VENDOR'S SCOPE SHALL BE DESIGNED AND SUPPLIED AS SINGLE SKID ITEM.
3. DESIGN CASE: SUMMER
4. THE PROVIDED INLET/OUTLET CONDITIONS ARE FOR SUMMER CASE
5. THE ESTIMATED MAKE-UP GLYCOL WILL BE 8.5KG/DAY (EXCLUDING LEAKAGE AND SPILLAGES)

LEGEND

REFERENCE DRAWING	DRG. No.
**********	******

KEY PLAN

C-100
GLYCOL GAS CONTACTOR
ID×TT : 650X10300 mm
OPERATING TEMP. : 62.8-63.8 °C
OPERATING PRESS. : 53.9 BARG

E-300 (Note 4)
DEHYDRATED GAS/LEAN GLYCOL HEAT EXCHANGER
DUTY: 29 x 1.1 kw
INLET-OUTLET SHELL/TUBE TEMP.(SHELL) : (120-68)/(63.6-66.7) °C
INLET-OUTLET SHELL/TUBE PRESS.: (55.1-54.9)/(53.9-53.6) BARG

F-100
PARTICLE GLYCOL FILTER
OPERATING TEMP. : 74 °C
OPERATING PRESS. : 4.5 BARG

F-200
CARBON GLYCOL FILTER
OPERATING TEMP. : 74 °C
OPERATING PRESS. : 3.8 BARG

V-120
GLYCOL FLASH DRUM
OPERATING TEMP. : 74 °C
OPERATING PRESS. : 4.5 BARG

P-100 A/B
LEAN GLYCOL CIRCULATION PUMP
CAPACITY (MAXIMUM/RATED) : 0.84/0.96 M3/HR
DIFFERENTIAL PRESSURE : 53.8 BAR

C-200
GLYCOL REGENERATION STILL COLUMN
OPERATING TEMP. (TOP/BOTTOM) : 86/140 °C
OPERATING PRESS. (TOP/BOTTOM) : 0.2/0.3 BARG

E-200 (Note 4)
LEAN/RICH GLYCOL EXCHANGER
DUTY: 45 x 1.1 kw
INLET-OUTLET SHELL/TUBE TEMP.(SHELL) : (186.6-113.9)/(73.6-140) °C
INLET-OUTLET SHELL/TUBE PRESS.: (0.3-0.2)/(3.3-3.1) BARG

E-100 (Note 4)
REFLUX CONDENSER
DUTY: 7.2 x 1.1 kw
INLET-OUTLET SHELL/TUBE TEMP.(SHELL) : (89-86)/(62.3-73.6) °C
INLET-OUTLET SHELL/TUBE PRESS.: (0.25-0.2)/(4.8-4.5) BARG

R-100
GLYCOL REGENERATOR REBOILER
DUTY: 78 x 1.1 kw
INLET/OUTLET OPERATING TEMP .(SHELL) : 140-204 °C
OPERATING PRESS .(SHELL) : 0.3 BARG

V-130
GLYCOL SURGE DRUM
OPERATING TEMP. : 186.5 °C
OPERATING PRESS. : 0.3 BARG

REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
V03	MAR.2025	AFC	MFS	M.FAKHARIAN	A.PARMAMPOUR	##.##
V02	OCT.2024	IFA	MFS	M.FAKHARIAN	M.Sadeghian	##.##
V01	MAY.2024	IFA	MFS	M.FAKHARIAN	A.PARMAMPOUR	##.##
V00	FEB.2024	IFA	MFS	M.FAKHARIAN	A.PARMAMPOUR	##.##

REV.	DESCRIPTION	CHECKED BY	CHECKED DATE	REV. APPR. BY	REV. APPR. DATE
***	**********	##.##	###.####	##.##	###.####

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS & GAS-CONDENSATE PIPELINES

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES

EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY (PEDCO)

اصل و کپی‌یه نسخ این نقشه وحق اقتباس 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 FACILITIES
GAS CPMPRESSOR STATION

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION BY: DATE:

DRAWING TITLE: PROCESS FLOW DIAGRAM FOR GAS DEHYDRATION PACKAGE

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
NS	A3	BK-GCS-MF-120-PR-PF-0001	1 OF 1	V03

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION