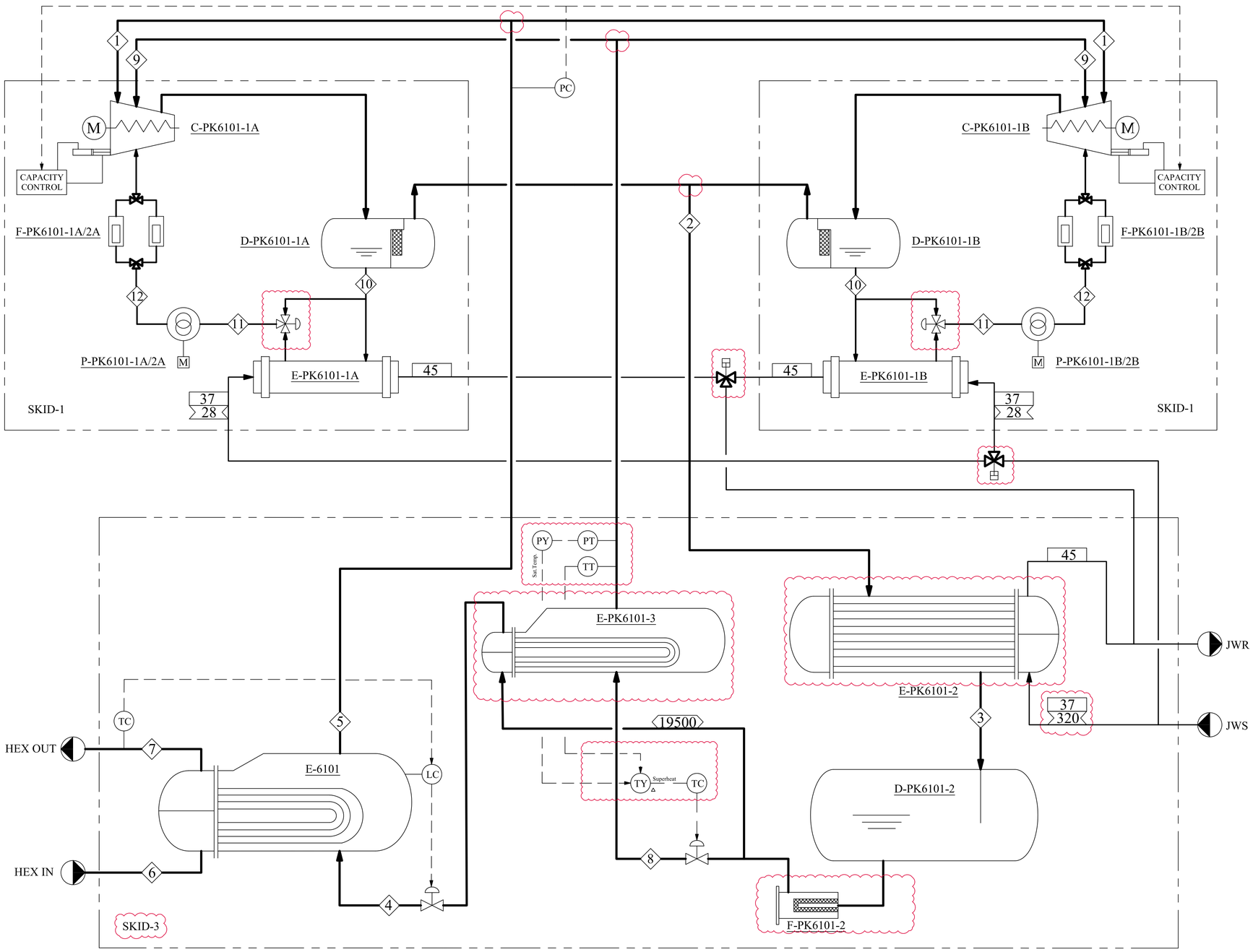
C-PK6101-1A/B Screw Compressor | D-PK6101-1A/B Oil Separator | D-PK6101-2 Received Drum | E-6101 Hexane Cooler | E-PK6101-2 Propylene Condenser | E-PK6101-3 Economizer | E-PK6101-1A/B Oil Cooler | F-PK6101-1A/2A Oil Filter | F-PK6101-1B/2B Oil Filter | F-PK6101-2 Propylene Filter/Dryer | P-PK6101-1A/2A Oil Pump | P-PK6101-1B/2B Oil Pump



STREAM NO.	UNIT	1	2	3	4	5	6	7	8	9	10	11	12
DESC.		PRY GAS TO COMP.	PRY GAS FROM COMP.	CONDENSATE PROPYLENE	REFRIGERATE PROPYLENE	RECYCLE PROPYLENE	HOT HEXANE	COOLED HEXANE	PROPYLENE TO ECO.	ECO. FLOW TO COMP.	SEPARATED OIL	COOLED OIL	OIL TO FILTER
TEMP.	°C	-25.0	80.3	48.5	-24.4	-25.0	-16.0	-20.0	12.4	11.4	80.3	50.0	50.0
PRESS.	bara	2.46	19.9	19.9	2.61	2.51	6.91	6.8	8.3	8.09	20.0	20.0	21.7
MASS FLOW	kg/h	19500	27623	27623	19500	19500	828500	828500	8123	8123	240 L/m	240 L/m	240 L/m
DENSITY	kg/m³	5.34	35.8	461	24.7	5.38	703	707	56.0	17.8	870	880	880
V.F.		1.0	1.0	0.0	0.22	1.0	0.0	0.0	0.29	1.0	0.0	0.0	0.0

Color	Width
RED	0.10
YEL	0.20
GRN	0.30
CYA	0.40
BLU	0.50
MAG	0.60
WHY	0.20
8	0.10
9	0.10
11	0.10
30	0.10
40	0.10
54	0.10
60	0.10
100	0.10
112	0.10
140	0.10
230	0.10

REFERENCES DOCUMENT

NOTES

1) One compressor unit is for standby.

2) Compressor model : PPN320LUD-ME

SPECIFICATION

Compressor Duty:

BHP = 1160.7 kW

Heat Exchanger Duty:

E-6101 = 1924.5 kW
E-PK6101-1A/B = 258 kW
E-PK6101-2 = 2942 kW
E-PK6101-3 = 631 kW

LEGEND

TEMP. °C
FLOW M³/H
FLOW KGH

CLIENT: PERSIAN GULF Petrochemical Industries Co. — Dehdasht Petrochemical Industries Co. DPIC

MC: PERSIAN GULF Petrochemical Industries Co. — PGPIC — Petrochemical Industries Development Management Company PIDMCO

CONTRACTOR: Petropars Ltd. — NARGAN

PROJECT TITLE:

DEHDASHT PETROCHEMICAL INDUSTRY COMPANY
DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT

DRAWING TITLE:

PROCESS FLOW DIAGRAM

DOCUMENT No: DPIC-12-001/000-4150-ME-PFD-027 | SC. | SIZE: A1

Proj. Code	Area No.	VD	Material Code	PO No.	Disc. Code	Doc. Type	Serial No.	Rev.	Sheet No.
DPIC9812	001	VD	4150	299-1002	ME	PFD	027	D0	1 OF 1

PURCHASER'S COMMENT/APPROVAL STATUS

1. AP: Approved (Released for Manufacturing)
2. AN: Approved With Minor Comments (Fabrication may Proceed)
3. NF: Approved With Comments (Fabrication not Proceed)
4. RJ: Rejected
5. NR: Not be Returned

Date : XX.XX.XX Signature :

PURCHASER:

REQUISITION NO.: DPIC98-12-001-000-ME-MR-4150-0001-02

ITEM NO. (TAG NO.): PK-6101

VENDOR DOC. NO.:

REV.	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
D0	19-09-2021	ISSUE FOR APPROVAL	R.GOUDARZI	M.NAZARHOAR	DR.A.NEJATI

KASRAVAND CO.