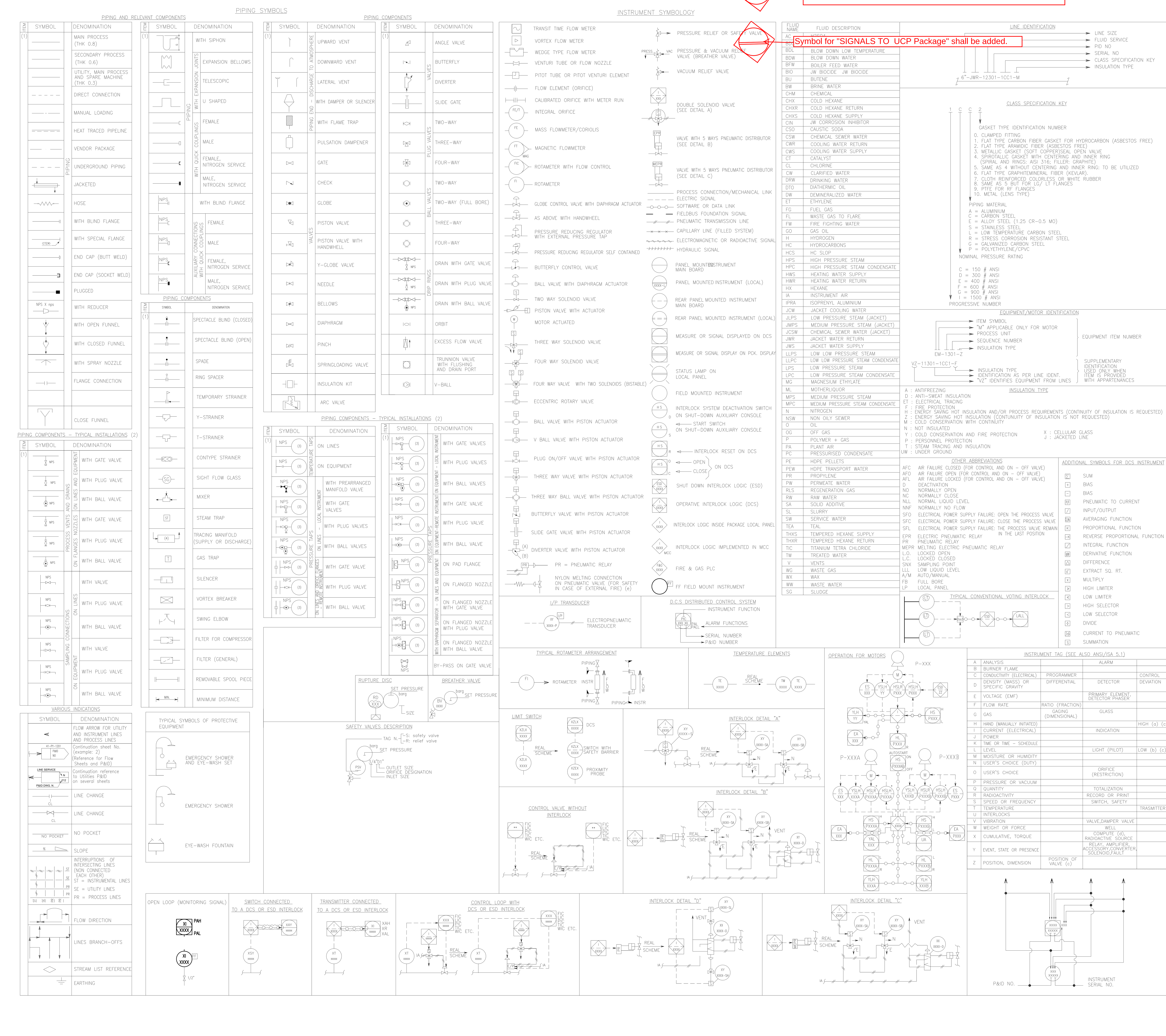
Symbol for "SIGNALS TO UCP AND MONITORED ON DCS VIA SERIAL LINK" shall be added.

Symbol for "SIGNALS TO UCP Package" shall be added.



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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

NOTES

LIST OF REFERENCE LBI AND INTERNATIONAL STANDARD

.... LINE LIST

LIST OF OTHER REFERENCE DOCUMENTS

ISA 5.1/5.3 INSTRUMENT IDENTIFICATION
.... PIPING CLASSES

GENERAL NOTES :

-ALL PIPING VENTS AND DRAINS ARE 3/4" EXCEPT AS NOTED
-ALL VALVED CONNECTIONS TO ATMOSPHERE IN PROCESS SERVICE

-HIGH POINT VENTS AND LOW POINT DRAINS ARE PROVIDED BUT ARE NOT SHOWN ON P&ID'S. NON-OPERATING VENTS AND DRAINS AT EXCHANGERS AND ROTARY EQUIPMENT ARE PROVIDED BUT ARE NOT SHOWN ON P&ID'S.
-FLOWMETER ORIFICE FLANGES SHALL BE SUPPLIED IN ACCORDANCE WITH THE PIPING SPECIFICATION.
-DEFINITIONS :

GRAVITY FLOW — ELEVATIONS DOWNSTREAM NEVER EXCEED INLET ELEVATIONS. LINE MAY CONTAIN POCKETS. SPECIFIC SLOPES REQUIRED ARE SHOWN BY SYMBOL:

n %

WHERE n IS THE PERCENTAGE REQUIRED. IN CASE OF "n" IS NOT INDICATED ASSUME AS MINIMUM SLOPE OF 0.2%

FREE DRAINING TO — LINE TO BE ROUTED TO A POINT DESIGNATED WITH NO LIQUID POCKETS IN THE LINE.

NO POCKETS — NO LIQUID POCKETS IN THE LINE. WHEN NECESSARY TO PREVENT VAPOUR POCKETS THE NOTE WILL READ "NO VAPOUR POCKETS".

-9.5 MM WEEP HOLES TO BE PROVIDED AT LOW POINTS OF PRESSURE RELIEF VALVE AND RUPTURE DISK DISCHARGE LINES TO ATMOSPHERE.
-REDUCERS IN PRESSURE RELIEF VALVE INLET OR OUTLET PIPING SHALL BE MINIMUM DISTANCE FROM THE PRESSURE RELIEF VALVES.
-ENLARGEMENTS AND RESTRICTIONS IN PROXIMITY OF MACHINES, CONTROL VALVES AND SAFETY VALVES SHALL BE CONSIDERED AS HOLD. TO BE CONFIRMED DURING DETAIL ENGINEERING.
-3/4" (INCHES) VENT/ DRAIN POINT WITH GATE VALVE SHALL BE INSTALLED ON ALL HIGH/ LOW POINT OF THE WATER CIRCUIT, FILTERS AND HEAT EXCHANGERS DURING DETAIL ENGINEERING
-LOCATION OF STEAM BY-PASS LINE, WITH STEAM TRAP GROUP, SHALL BE DEFINED DURING DETAIL ENGINEERING. BY-PASS LINE SHALL START FROM THE LOWEST POINT OF STEAM LINE
-LINES TO THE FLARE SHALL BE WITHOUT POCKETS, WITH MINIMUM NUMBER OF BENDS AND SLOPED TO DRAIN WHERE LIQUID MAY BE ENTRAINED.
-WHEN TRIM CODE IS NOT INDICATED, IT IS IN ACCORDANCE WITH THE PIPING CLASS.
-NO LOOPS IN THE OFFERED HDPE PLANT COME UNDER SIL-3 OR SIL-4 CLASSIFICATION.
-FOR THE EQUIPMENT WHERE SIZES ARE ENVISAGED SMALLER, THE REQUIREMENT OF SAFETY VALVES SIZED FOR THE EXTERNAL FIRE IS TO BE CONFIRMED DURING THE DETAIL ENGINEERING.
-EXCEPT FOR TEAL AREA, STEAM TRACING IS ACCEPTABLE IN PLACE OF ELECTRICAL TRACING.

NOTES FOR PIPING SYMBOLOGY

(1)SEE PIPING CLASSES
(2)SEE REFERENCE DOCUMENT N. ....
SYMBOL REPRESENT IN A SIMPLIFIED WAY THE COMPLETE TYPICAL INSTALLATION OF PIPING CLASS. INSTALLATIONS OTHER THAN THOSE SHOWN ON PIPING CLASSES MUST BE INDICATED ON P&ID IN DETAIL WITH THEIR OWN COMPONENTS.
(3)SEE REFERENCE DOCUMENT N. ....
(4)TRACING MANIFOLD ITEM AS PER REFERENCE DOCUMENT N..................................
(5)SPECIAL PIPING COMPONENTS "S" ITEMIZED SV=10102
S=PIPING SPECIAL ITEM
V=SPECIAL VALVE
F=FLAME ARRESTOR
H=HOSE AND COUPLING
K=INSULATION KIT
N=SAMPLE CONNECTION
S=STRAINER
T=TRAP
101=PID NUMBER
02=SERIAL NUMBER

NOTES FOR INSTRUMENT SYMBOLOGY

GENERAL NOTES :

(a) THE IDENTIFICATION FOR VERY HIGH OR MAXIMUM IS HH
(b) THE IDENTIFICATION FOR VERY LOW OR MINIMUM IS LL
(c) THE TERMS HIGH AND LOW , WHEN APPLIED TO THE POSITION OF VALVES OR MOTORS , ARE DEFINED AS FOLLOW :
- H = VALVE OPEN / MOTOR RUNNING / DEVIATOR "A" POSITION/MOTOR START
- L = VALVE CLOSED / MOTOR STANDING / DEVIATOR "B" POSITION/MOTOR STOP
(d) WHERE NECESSARY ADDITIONAL SYMBOLS (SEE TABLE) HAVE BEEN USED TO EXPLAIN THE FUNCTION.
(e) WHEN PLASTIC TUBING (MELTING CONNECTION) IS USED AS A "FUSIBLE LINK", THE TUBING SHALL BE IDENTIFIED WITH LABEL TAGS AT REGULAR INTERVALS (OR COLOUR CODED) TO INDICATE THAT IT IS PART OF THE PROTECTION SYSTEM. THE TUBING SHALL BE LOCATED WHERE IT WILL BE EXPOSED TO A POTENTIAL FIRE. FOR VESSEL, THE TUBING SHOULD BE WRAPPED AROUND THE VESSEL AND EXTEND TO WITHIN 3M FROM GRADE.
(f) AUXILLARY COMPONENTS OF THE INSTRUMENT LOOPS (SUCH AS I.S. BARRIERS, TRANSDUCERS ETC.) ARE NOT SHOWN ON P&ID
(g) FOR THE COMPLETE LIST OF SIGNALIZATIONS, ALARMS, METERINGS AND COMMANDS RELATED TO ELECTRIC APPARATUS REFER TO THE INSTRUMENT LIST. THEY ARE NOT COMPLETELY SHOWN ON P&IDS.
(h) THE TERMS L AND R, WHEN APPLIED TO A MACHINE:
- L = LOCAL
- R = REMOVE

BY PIPING DEPT. / BY INSTR. DEPT.

BY PACKAGE VENDOR / BY CUSTOMER

PAGE NO. LEGEND

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: PPI Petropars Ltd. — NARGAN

PROJECT TITLE:

DEHDASHT PETROCHEMICAL INDUSTRY COMPANY
DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT

DRAWING TITLE:

PIPING AND INSTRUMENT DIAGRAM (P&ID)

DOCUMENT No: DPIC9812-000-VD-1002-ME-PID-0010

SC.

SIZE: A1

Proj. Code	Area No.	VD	Material Code	PO No.	Disc. Code	Doc. Type	Serial No.	Rev.	Sheet No.
DPIC9812	000	VD	1002	4150	ME	PID	010	D2	1 OF 5

PURCHASER'S COMMENT/APPROVAL STATUS

1. AP: Approved (Released for Manufacturing)
2. [X] 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 : 06.03.2022 Signature : A.AB

PURCHASER:

REQUISITION NO.: DPIC98-12-001-000-ME-MR-4150-0001-D1

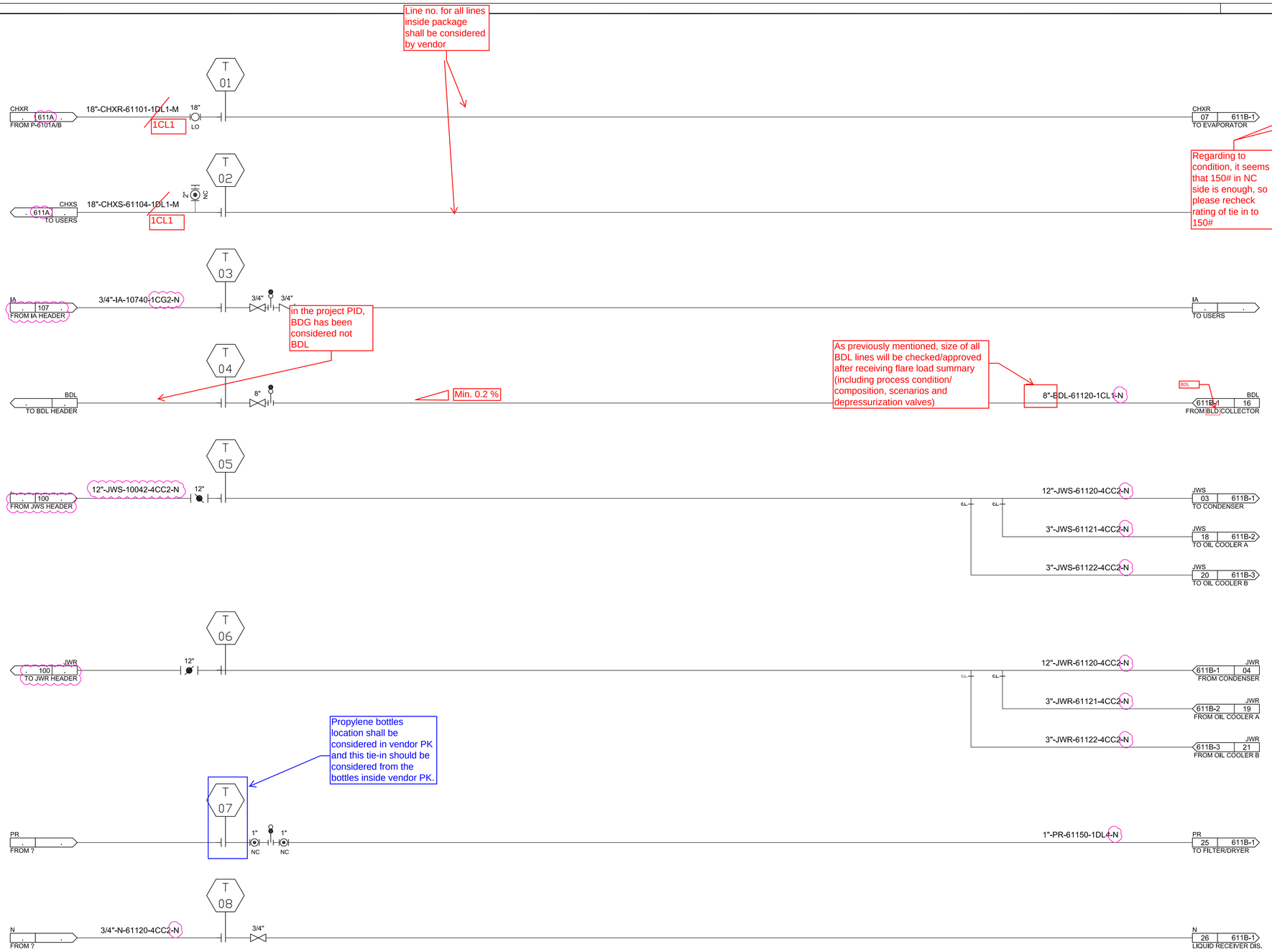
ITEM NO. (TAG NO.): PK-6101

VENDOR DOC. NO.: DPIC98-12-000-VD-1002-ME-PID-010-D2

REV.	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
D2	05-Feb-22	ISSUE FOR APPROVAL	R.GOUDARZI	A.MALEKINIA	A.MALEKINIA
D1	29-Dec-21	ISSUE FOR APPROVAL	R.GOUDARZI	A.MALEKINIA	A.MALEKINIA
D0	01-09-2021	ISSUE FOR APPROVAL	R.GOUDARZI	A.MALEKINIA	A.MALEKINIA

KASRAVAND Engineering & Construction

KASRAVAND CO.



NOTES

BATTERY LIMIT NOZZLE LIST					
ITEM NO.	DESCRIPTION	SIZE	RATING	FACING	FINISH
T-01	HEXANE INLET	18"	300#	RF	150-250-AARH
T-02	HEXANE OUTLET	18"	300#	RF	150-250-AARH
T-03	INSTRUMENT AIR	3/4"	150#	RF	150-250-AARH
T-04	BLOW DOWN GAS	8"	150#	RF	150-250-AARH
T-05	JACKET WATER SUPPLY	12"	150#	RF	150-250-AARH
T-06	JACKET WATER RETURN	12"	150#	RF	150-250-AARH
T-07	PROPYLENE	1"	300#	RF	150-250-AARH
T-08	NITROGEN	3/4"	150#	RF	150-250-AARH

general comment:
-trim line number for all equipment shall be added.
-next to serial number for all lines inside package (PK) shall be marked
-Pipe class of lines will be checked after receiving stream list in the next revision
-Previous comment about adding line no. shall be considered by vendor
-Pipe class of tie in which has not been shown in project PID, will be checked later
-Pipe class of lines will be checked after receiving stream list in the next revision

Color	Width
RED	0.10
YEL	0.20
GRN	0.30
CYA	0.40
BLU	0.50
MAG	0.60
WHY	0.20
9	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

PAGE NO. 611B-0

CLIENT: Dehdasht Petrochemical Industries Co.

MC: Petrochemical Industries Development Management Company PIDMCO

CONTRACTOR: Petropars Ltd. / NARGAN

PROJECT TITLE:
DEHDASHT PETROCHEMICAL INDUSTRY COMPANY
DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT

DRAWING TITLE:
PIPING AND INSTRUMENT DIAGRAM (P&ID)
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DOCUMENT No: DPIC9812-000-VD-1002-ME-PID-0010

SC:
SIZE: A1

Proj. Code	Area No.	VD	Material Code	PO No.	Disc. Code	Doc. Type	Serial No.	Rev.	Sheet No.
DPIC9812	000	VD	1002	4150	ME	PID	010	D2	2 OF 5

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PURCHASER:
REQUISITION NO.: DPIC98-12-001-000-ME-MR-4150-0001-D1
ITEM NO. (TAG NO.): PK-6101
VENDOR DOC. NO.: DPIC98-12-000-VD-1002-ME-PID-010-D2

REV.	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
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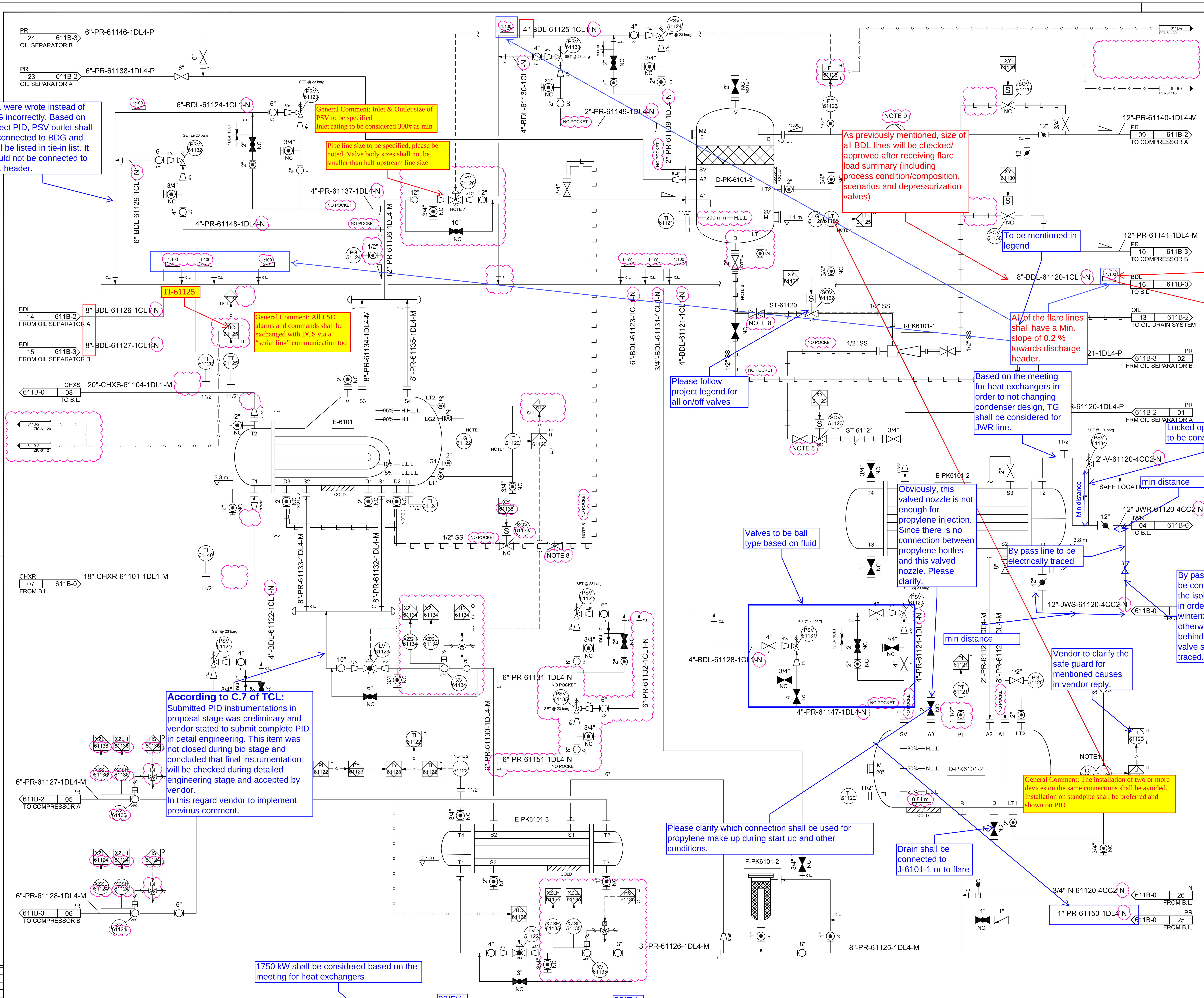
KASRAVAND CO.



BDL were wrote instead of BDG incorrectly. Based on project PID, PSV outlet shall be connected to BDG and shall be listed in tie-in list. It should not be connected to BDL header.

General Comment: Inlet & Outlet size of PSV to be specified. Inlet rating to be considered 300# as min

Pipe line size to be specified, please be noted, Valve body sizes shall not be smaller than half upstream line size

TI-61125

General Comment: All ESD alarms and commands shall be exchanged with DCS via a "serial link" communication too

As previously mentioned, size of all BDL lines will be checked/ approved after receiving flare load summary (including process condition/composition, scenarios and depressurization valves)

To be mentioned in legend

All of the flare lines shall have a Min. slope of 0.2 % towards discharge header.

Please follow project legend for all on/off valves

Based on the meeting for heat exchangers in order to not changing condenser design, TG shall be considered for JWR line.

Locked open valve to be considered

min distance

Obviously, this valved nozzle is not enough for propylene injection. Since there is no connection between propylene bottles and this valved nozzle. Please clarify.

Valves to be ball type based on fluid

By pass line to be electrically traced

By pass line shall be considered near the isolation valve in order to winterizing, otherwise all lines behind the isolation valve shall be traced.

min distance

Vendor to clarify the safe guard for mentioned causes in vendor reply.

According to C.7 of TCL:
Submitted PID instrumentations in proposal stage was preliminary and vendor stated to submit complete PID in detail engineering. This item was not closed during bid stage and concluded that final instrumentation will be checked during detailed engineering stage and accepted by vendor.
In this regard vendor to implement previous comment.

Please clarify which connection shall be used for propylene make up during start up and other conditions.

Drain shall be connected to J-6101-1 or to flare

General Comment: The installation of two or more devices on the same connections shall be avoided. Installation on standpipe shall be preferred and shown on PID

1750 kW shall be considered based on the meeting for heat exchangers

23/FV

23/FV

-45/135

F-PK-6101-1 and J-PK-6101-1 are missed.
Please remove process tag numbers if they are in line piping equipments. Otherwise, they should be listed here

D-PK6101-2 LIQUID RECEIVER	
ID X T.L T.L	: 36" X 4000 mm
VOLUME	: 2.7 m³
DESIGN PRESS.	: 23 barg+F.V
DESIGN TEMP.	: -45/135 °C
MATERIAL	: C.S.

D-PK6101-3 K.O. DRUM	
ID X T.L T.L	: 1800 X 2800 mm
VOLUME	: 7.78 m³
DESIGN PRESS.	: 23 barg + F.V
DESIGN TEMP.	: -45/135°C
MATERIAL	: C.S.

E-6101 EVAPORATOR	
TEMA TYPE	: BKU
ID X TUB.L	: 1200/1656 X 5240 mm
DUTY	: 1688 kW
DESIGN PRESS. (S/T)	: 23+F.V/ 23 barg
DESIGN TEMP. (S/T)	: -45~135/ -45~135 °C
MATERIAL (S/T)	: C.S/C.S.

E-PK6101-2 CONDENSER	
TEMA TYPE	: BEM
ID X TUB.L	: 1180 X 5000 mm
DUTY	: 2627 kW
DESIGN PRESS. (S/T)	: 23+F.V/ 25 barg
DESIGN TEMP. (S/T)	: -45.0~123/190 °C
MATERIAL (S/T)	: C.S/C.S.

E-PK6101-3 ECONOMIZER	
TEMA TYPE	: BEM
ID X TUB.L	: 581 X 6000 mm
DUTY	: 506 kW
DESIGN PRESS. (S/T)	: 23/23+F.V barg
DESIGN TEMP. (S/T)	: -45.0~135/-45~135 °C
MATERIAL (S/T)	: C.S/C.S.

F-PK6101-2 PROPYLENE FILTER/DRYER	
TYPE	: MOLECULAR SIEVE
ID X T.L T.L	: 4" X 195 mm
DESIGN PRESS. (S/T)	: 23.0 barg + FV
DESIGN TEMP. (S/T)	: -45/135 °C
MATERIAL (B/I)	: C.S/S.S.

Color	Width
RED	0.10
YEL	0.20
GRN	0.30
CYA	0.40
BLU	0.50
MAG	0.60
WHY	0.70
8	0.10
9	0.10
11	0.10
31	0.10
40	0.10
54	0.10
60	0.10
100	0.10
112	0.10
140	0.10
230	0.10

NOTES

NOTE 1: LT & LG ARE MAGNETIC TYPE.

NOTE 2: TEMP. TRANSMITTER TO BE LOCATED AS FAR AS POSSIBLE FROM ECONOMIZER

NOTE 3: OIL RECOVERY NOZZLE.

NOTE 4: NITROGEN FILL OR PURGE/DRAIN

NOTE 5: DELETED.

NOTE 6: ELECTRICAL TRACING. T= 30 °C.

NOTE 7: TYPE OF CV WILL BE DEFINED LATER.

NOTE 8: TO BE SET DURING COMMISSIONING ... R 200 hr

please clarify magnet type level transmitter, displacer or DP could be used as per project spec.

PID approval will be after finalization of all items

Although vendor approval for following project legend, still there are some discrepancies. Vendor shall follow project legend in Lines (specially electrically tracing lines), valves (on/off valves for example), instrument logic symbol, equipments and ect.

1- Based on General Specification for Instrumentation "On-off and throttling control valves operated by safety and interlocking system shall be generally equipped with limit switch, to show valve position on DCS. Limit switches shall ... valve shall be ... rm).

Important comment:
Package will be installed on the ground, so free draining of lines to flare network is not possible, please consider this matter

3- Control Valve sized and and relevant , Block & Bypass will be finalized after receiving relevant calculations and DSH.

4- PSV sizes shall be frozen after final data sheet and calculations.

5- Instrument process connections shall be as per DPC-IN-SPC-0007

6-Interlock connection and signals type will be finalized after receiving Control Philosophy.

7- signals of Electro-Motors shall be modified based on P&ID legend.

8-All common Tag names shall be same as reference project P&ID.

9-Indivial page shall be considered for interface signals between PLC and DCS/ESD.(All Interface signals shall be clearly mentioned).

10- Indication on DCS of all signals shall be mentioned on P&ID by using proper symbol.(Above page mentioned)

PID approval will be after below documents submission:
1- Approved Data sheets
2- Process & start up procedure
3- Capacity control philosophy
4- Interlock description / cause and effect

Vendor to collect all hydrocarbon drains and connect to flare

PAGE NO. 611B-1

CLIENT: PERSIAN GULF | MC: PERSIAN GULF | CONTRACTOR: PPI / NARGAN

-Connection, line which shall be insulated shall be schematically shown
-Please specify location of electrical tracing
-please specify instrument which shall be on gauge board

PROJECT TITLE:
DEHDASHT PETROCHEMICAL INDUSTRY COMPANY
DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT

DRAWING TITLE:
PIPING AND INSTRUMENT DIAGRAM (P&ID)

DOCUMENT No: DPIC9812-000-VD-1002-ME-PID-0010 | SC. | SIZE: A1

Proj. Code	Area No.	VD	Material Code	PO No.	Disc. Code	Doc. Type	Serial No.	Rev.	Sheet No.
DPIC9812	000	VD	1002	4150	ME	PID	010	D2	2 OF 4

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3. NF: Approved With Comments (Fabrication not Proceed)
4. RJ: Rejected
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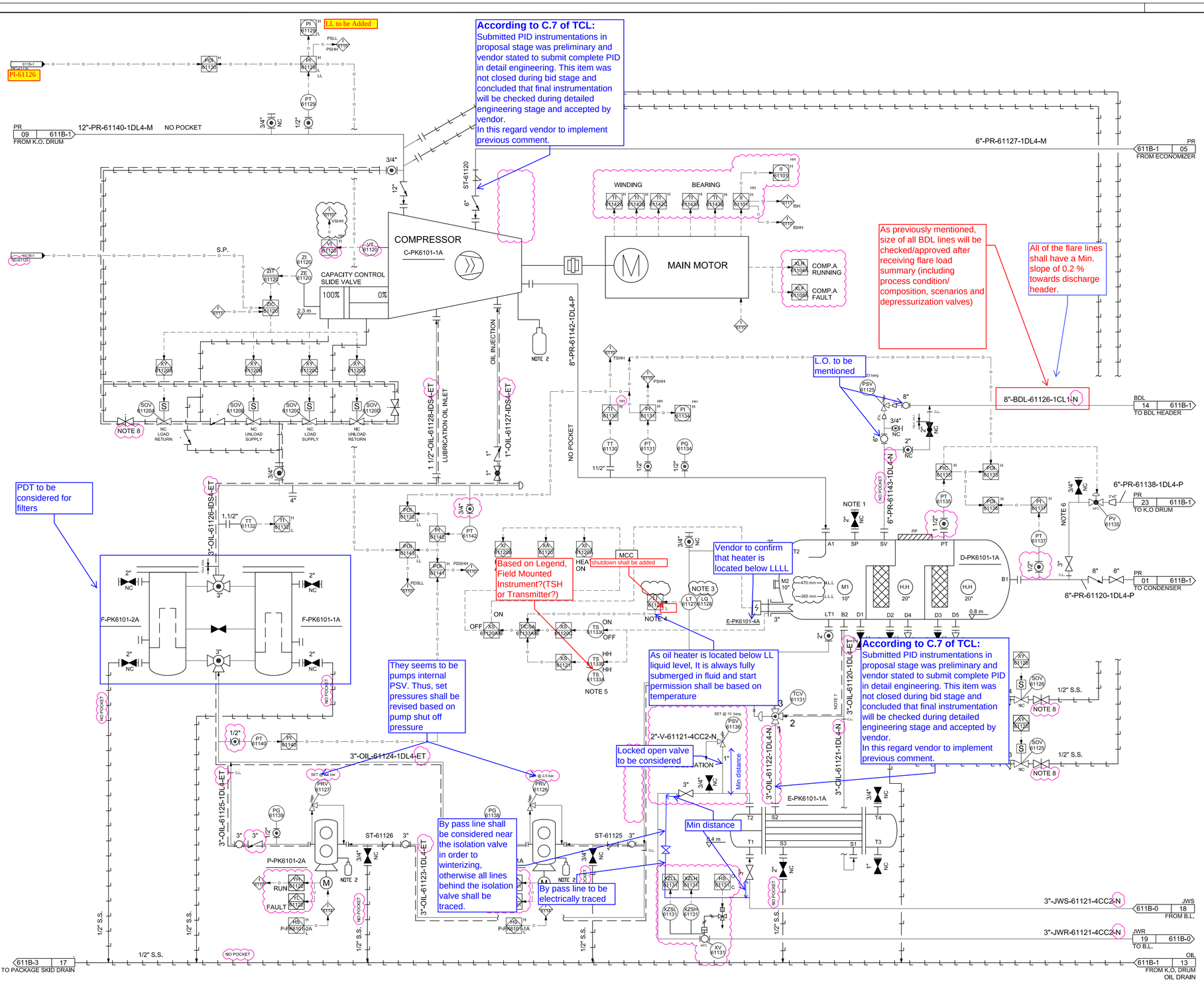
Date : XX.XX.XX Signature :

PURCHASER:
REQUISITION NO.: DPIC98-12-001-000-ME-MR-4150-0001-D1
ITEM NO. (TAG NO.): PK-6101
VENDOR DOC. NO.: DPIC98-12-000-VD-1002-ME-PID-010-D2

REV.	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
D2	05-Feb-22	ISSUE FOR APPROVAL	R.GOUDARZI	A.MALEKINIA	A.MALEKINIA
D1	29-Dec-21	ISSUE FOR APPROVAL	R.GOUDARZI	A.MALEKINIA	A.MALEKINIA
D0	01-09-2021	ISSUE FOR APPROVAL	R.GOUDARZI	A.MALEKINIA	A.MALEKINIA

KASRAVAND CO.



Color	Width
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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

C-PK6101-A
SCREW COMPRESSOR

RATED POWER	:	1400 kW
DP PRESSURE	:	17.65 bar
MANUFACTURER	:	MAYEKAWA
COMP.TYPE	:	OIL FLOODED SCREW
MAYEKAWA TYPE	:	PPN320LUD-ME

D-PK6101-1A
OIL SEPARATOR

ID X HEIGHT	:	1041.4 X 6604 mm
VOLUME	:	5.9 m³
DESIGN PRESS.	:	20.69 barg
DESIGN TEMP.	:	-42.8/107.2 °C
MATERIAL	:	C.S.

E-PK6101-1A
OIL COOLER

TEMA TYPE	:	BEM
ID X TUB.L	:	381 X 3000 mm
DUTY	:	208 kW
DESIGN PRESS. (S/T)	:	25/25 barg
DESIGN TEMP. (S/T)	:	120/190 °C
MATERIAL (S/T)	:	C.S./C.S.

-45~120/-10~190

E-PK6101-4A
OIL HEATER OIL SEPARATOR

TYPE	:	ELECTRICAL
DESIGN POWER	:	1.5 kW

F-PK6101-1A/2A
OIL FILTER

TYPE	:	CARTRIDGE
ID X T.L T.L	:	8" X 1300 mm
DESIGN PRESS. (S/T)	:	25.0 barg + FV
DESIGN TEMP. (S/T)	:	120 °C
MATERIAL (B/I)	:	C.S./S.S.

P-PK6101-1A/2A
OIL PUMP

TYPE	:	GEAR
FLOW	:	240 L/min
DESIGN PRESS.	:	25 barg
DESIGN TEMP.	:	120 °C
POWER	:	7.5 kW
DP	:	5.2
MATERIAL	:	C.S.

To be revised based on shut off pressure. As pump max discharge pressure is 29 barg, 25 barg is very low for design pressure.
Pump down stream equipment design pressures shall be revised based on pump shut off pressure.

NOTES

NOTE 1: OIL FILL UP & VACUUM CONNECTION.

NOTE 2: COLLECTION POT TO BE EMPTIED ONCE EVERY (X) WEEKS TIME.

NOTE 3: MAGNETIC TYPE.

NOTE 4: START PERMISSION FOR OIL SEPARATOR HEATER.

NOTE 5: 61133A= BOX CUT OUT SWITCH.
61133B= OVERHEAT SWITCH.

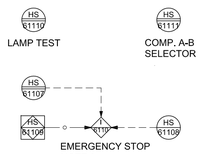
NOTE 6: START UP BYPASS.

NOTE 7: ELECTRICAL TRACING. T= 30 °C.

NOTE 8: TO BE SET DURING COMMISSIONING.

NOTE 9: EMERGENCY STOP HAND SWITCH TRIGGER WILL TRIP ENTIRE PACKAGE (BOTH COMPRESSORS A & B).

100UX-01 LOCAL CONTROL PANEL



COMPRESSOR A:	COMPRESSOR B:
REFER TO TABLE A IN THIS PAGE	REFER TO TABLE B IN PAGE 611B-3

TABLE A

COMPRESSOR A

PAGE NO. 611B-2

CLIENT: PERSIAN GULF Petrochemical Industries Co. — Dehdasht Petrochemical Industries Co. (PPI)

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

CONTRACTOR: Petropars Ltd. — NARGAN

PROJECT TITLE:
DEHDASHT PETROCHEMICAL INDUSTRY COMPANY
DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT

DRAWING TITLE:
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PURCHASER:
REQUISITION NO.: DPIC98-12-001-000-ME-MR-4150-0001-D1
ITEM NO. (TAG NO.): PK-6101
VENDOR DOC. NO.: DPIC98-12-000-VD-1002-ME-PID-010-D2

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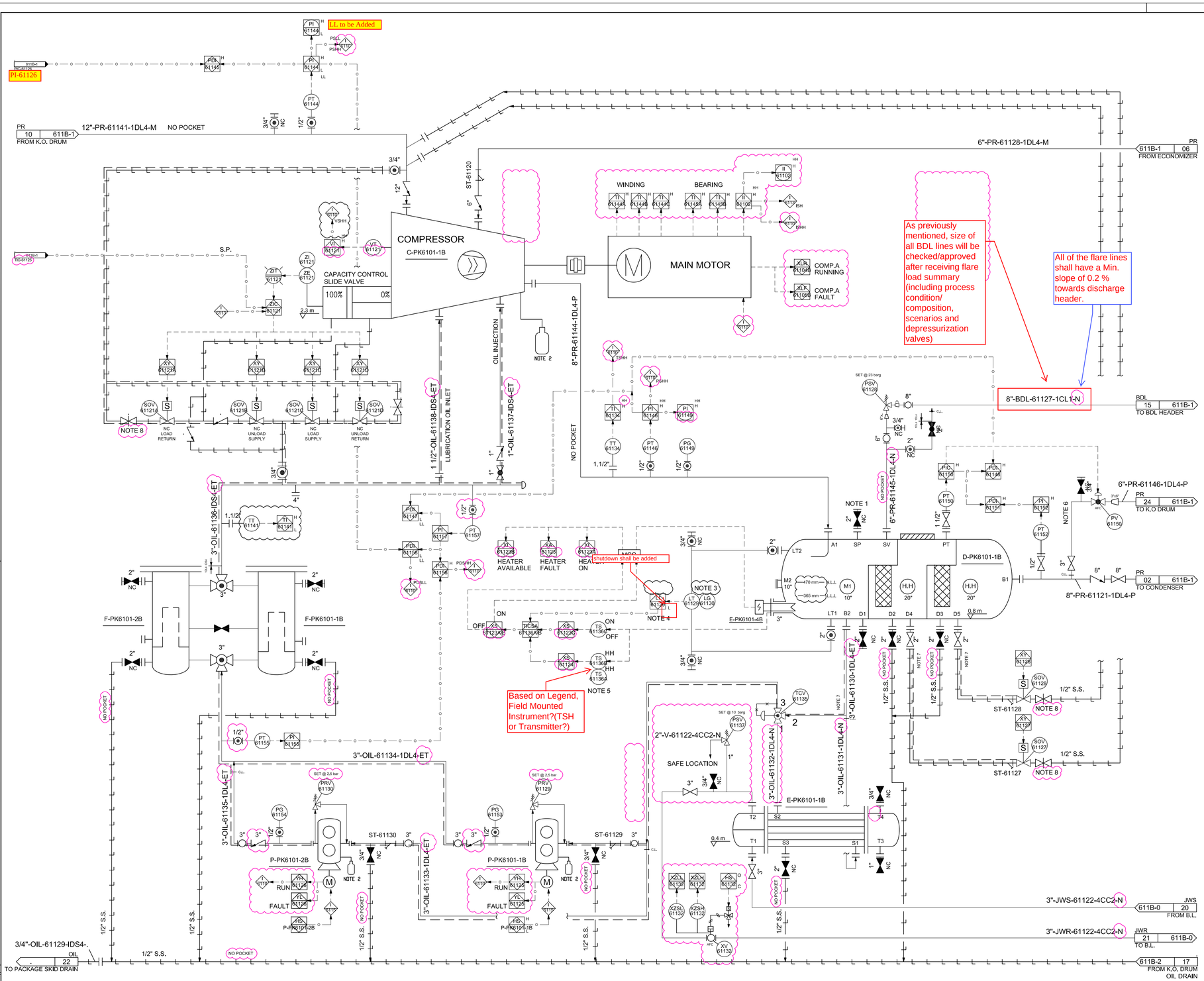
D0	01-09-2021	ISSUE FOR APPROVAL	R.GOUDARZI	A.MALEKINIA	A.MALEKINIA

KASRAVAND CO.



NOTES

NOTE 1: OIL FILL UP & VACUUM CONNECTION.

NOTE 2: COLLECTION POT TO BE EMPTIED ONCE EVERY (X) WEEKS TIME.

NOTE 3: MAGNETIC TYPE.

NOTE 4: START PERMISSION FOR OIL SEPARATOR HEATER.

NOTE 5: 61136A= BOX CUT OUT SWITCH.
61136B= OVERHEAT SWITCH.

NOTE 6: START UP BYPASS.

NOTE 7: ELECTRICAL TRACING. T= 30 °C.

NOTE 8: TO BE SET DURING COMMISSIONING.

All comments on previous sheet are applicable for this sheet

TABLE B

COMPRESSOR B

HS 61101B COMP. B START	HS 61102B COMP. B STOP			
HS 61103B OIL PUMP 1B START	HS 61104B OIL PUMP 1B STOP	HS 61105B OIL PUMP 2B START	HS 61106B OIL PUMP 2B STOP	
XL 61101B COMP. B READY TO START	XL 61102B COMMON ALARM	XL 61103B COMP. B TRIP	XL 61104B COMP. B RUNNING	XL 61105B COMP. B FAULT
XL 61106B OIL PUMP 1B FAULT	XL 61107B OIL PUMP 1B RUNNING	XL 61108B OIL PUMP 2B FAULT	XL 61109B OIL PUMP 2B RUNNING	

PAGE NO. 611B-3

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

C-PK6101-B
SCREW COMPRESSOR

RATED POWER	:	1400 kW
DP PRESSURE	:	17.65 bar
MANUFACTURER	:	MAYEKAWA
COMP.TYPE	:	OIL FLOODED SCREW
MAYEKAWA TYPE	:	PPN320LUD-ME

D-PK6101-1B
OIL SEPARATOR

ID X HEIGHT	:	1041.4 X 6604 mm
VOLUME	:	5.9 m³
DESIGN PRESS.	:	20.69 barg
DESIGN TEMP.	:	-42.8/107.2 °C
MATERIAL	:	C.S.

E-PK6101-1B
OIL COOLER

TEMA TYPE	:	BEM
ID X TUB.L	:	381 X 3000 mm
DUTY	:	208 kW
DESIGN PRESS. (S/T)	:	25/25 barg
DESIGN TEMP. (S/T)	:	120/190 °C
MATERIAL (S/T)	:	C.S./C.S.

E-PK6101-4B
OIL HEATER OIL SEPARATOR

TYPE	:	ELECTRICAL
DESIGN POWER	:	1.5 kW

F-PK6101-1B/2B
OIL FILTER

TYPE	:	CARTRIDGE
ID X T.L T.L	:	8" X 1300 mm
DESIGN PRESS. (S/T)	:	25.0 barg + FV
DESIGN TEMP. (S/T)	:	120 °C
MATERIAL (B/I)	:	C.S./S.S.

P-PK6101-1B/2B
OIL PUMP

TYPE	:	GEAR
FLOW	:	240 L/min
DESIGN PRESS.	:	25 barg
DESIGN TEMP.	:	120 °C
POWER	:	7.5 kW
DP	:	5.2
MATERIAL	:	C.S.

CLIENT: Dehdasht Petrochemical Industries Co.

MC: PGPIC Petrochemical Industries Development Management Company PEDMCO

CONTRACTOR: Petropars Ltd. / NARGAN

PROJECT TITLE:
DEHDASHT PETROCHEMICAL INDUSTRY COMPANY
DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT

DRAWING TITLE:
PIPING AND INSTRUMENT DIAGRAM (P&ID)

DOCUMENT No: DPIC9812-000-VD-1002-ME-PID-0010 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	PR	PID	010	D2	4 OF 4

PURCHASER'S COMMENT/APPROVAL STATUS 4150
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-D1
ITEM NO. (TAG NO.): PK-6101
VENDOR DOC. NO.: DPIC98-12-000-VD-1002-ME-PID-010-D2

REV.	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
D2	05-Feb-22	ISSUE FOR APPROVAL	R.GOUDARZI	A.MALEKINIA	A.MALEKINIA
D1	29-Dec-21	ISSUE FOR APPROVAL	R.GOUDARZI	A.MALEKINIA	A.MALEKINIA
D0	01-09-2021	ISSUE FOR APPROVAL	R.GOUDARZI	A.MALEKINIA	A.MALEKINIA

KASRAVAND CO.