PPI / NARGAN	**DEHDASHT PETROCHEMICAL INDUSTRY COMPANY** **DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT**	PGPIC
	DOCUMENT TITLE: Equipment List	**POI: IFA**
Contract No.: DPIC/98-12	**DOCUMENT NUMBER: DPIC9812-000-VD-1002-ME-LST-0050**	**Rev. No.: D0**

DOCUMENT TITLE:

EQUIPMENT LIST

PURCHASER'S COMMENT/APPROVAL STATUS		Purchaser: NARGAN
1	AP: Approved (Released for Manufacturing)	Requisition No.: DPIC98-12-001-000-ME-MR-4150-0001-D1
X	AN: Approved With Minor Comments (Fabrication may Proceed)	
3	NF: Approved With Comments (Fabrication not Proceed)	Item No. (Tag No.): PK-6101
4	RJ: Rejected	
5	NR: Not be Returned	Vendor Doc. No.: DPIC9812-000-VD-1002-ME-LST-0050-D0
Date: 19.02.2022	Signature: A.AB	

REV	DATE ISSUE	PREPARED	CHECKED	APPROVED
D0	31.Nov..21	R.GOUDARZI	DR.A.NEJATI	DR.A.NEJATI

KASRAVAND Engineering & Construction

PPI / NARGAN	**DEHDASHT PETROCHEMICAL INDUSTRY COMPANY** **DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT**	شرکت صنایع پتروشیمی خلیج فارس PGPIC شرکت صنایع پتروشیمی دهدشت (سهامی عام)
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GENERAL COMMENT:
All data shall be rechecked and revised after data sheets approval.

In compressor data sheet: MWP of casing is 27.6 barg. Compressor design pressure shall be considered 27.6 barg. Also, upstream pump shut off pressure is higher than 27.6barg.

PPI

NARGAN

PGPIC

DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT

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EQUIPMENT

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Data will be checked after receiving related data sheet.

Discrepancy with PFD. Please clarify

In compressor data sheet, it is mentioned 20 bara. Please clarify

Based on duty specification, design temp to be -45/100 °C

				TECHNICAL DATA	MATERIAL	DESIGN TEMPERATURE (°C)	DESIGN PRESSURE (barg)
1	C-PK6101-1A/B	Oil Flooded Screw Compressor	2	Type= Screw Normal Flow= 19500 kg/h, Rated Flow= 21030 kg/h DP= 17.65 bar, Outlet Pressure= 20 barg BHP= 1160 kw, Power= 1400 kw	Casing= A-352, LCB Shaft= A-668 Class G	88.6	22.3
2	D-PK6101-1A/B	Oil Separator	2	ID x T.L T.L = 1041.4 x 6604 mm Volume= 5.9 m^3 Operating Condition= 80.5 °C , HOLD barg	Body= SA-516 GR70N	-42.8/107.2	HOLD
3		Liquid Receiver	1	ID x T.L T.L = 888.6 x 4000 mm Volume= 2.7 m^3 Operating Condition= 48.5 °C , 18.6 barg	Body= SA-516 GR70N	-45.0/135.0	23.0 + F.V
4	D-[illegible] Drum		1	ID x T.L T.L = 1800 x 2800 mm Volume= 8.6 m^3 Operating Condition= -24.0 °C , 1	Body= SA-516 GR70N	-45.0/135.0	23.0 + F.V
5	E-6101	Evaporator	1	Tema Type= BKU ID x L= 1200/1656 x 4200 mm, Area Per Shell= 478.25 m^2 Heat Duty= 1688 kw, Tube No.= 870U	Shell= SA-516 GR70N Tube= SA-334 GR 6 Seamless	Shell= -45.0/125.0 Tube= -45.0/125.0	Shell=23.0 + F.V Tube= 23.0
6	E-PK6101-1A/B	Oil Cooler	2	Tema Type= BEM ID x L= 381 x 3000 mm, Area Per Shell= 29.8 m^2 Heat Duty= 209 kw, Tube No.= 166	[illegible]106 G [illegible]179	Shell= 120.0 Tube= 190.0	Shell=25.0 Tube= 25.0
7	E-PK6101-2	Condenser	1	Tema Type= BEM ID x L= 1180 x 5000 mm, Area Per Shell= 539.22 m Heat Duty= 2682 kw, Tube No.= 1802	[illegible] GR 6 Seamless	Shell= 125.0 Tube= 190.0	Shell=23.0 + F.V Tube= 23.0
8	E-PK6101-3	Economizer	1	Tema Type= BEM ID x L= 581 x 6000 mm, Area Per Shell= 115.39 m^2 Heat Duty= 508.3 kw, Tube No.= 241	[illegible] GR 6 Seamless	Shell= 125.0 Tube= -45.0/125.0	Shell=23.0 Tube= 23.0 + F.V
9	F-PK6101-1A/B,2A/B	Oil Filter	4	Type= Cartridge ID x T.L T.L = 8" x 1300 mm	Body= SA106 Gr.B [illegible]ment= S.S 304	120.0	25.0 + F.V
10	F-PK6101-2	Ppropylene Filter/Dryer	1	Type= Molecular Sieve ID x T.L T.L = 4" x 195 mm	[illegible]y= SA 333 GR.6 [illegible]ment= S.S 304	-45.0/135.0	23.0 + F.V
11	P-PK6101-1A/B,2A/B	Oil Pump	4	Type= 3-Screw Normal Flow= 240 LPM, Rated Flow= 340 LPM DP= 5.2, Outlet Pressure= 29 barg BHP= 5.0 kw, Power= 7.5 kw	Casing= Cast Iron End Plates= Cast Iron	120.0	25.0

Based on data sheet, it seems that OD is reported 1800 mm. Please clarify.

Discrepancy with PID and data sheet. Please clarify

In data sheet is BKU but in duty spec is BKM

Design Heat duty to be 1750 KW

To be revised based on data sheet comment

To be revised based on design temp of compressor

shall be specified.

shall be specified.

Please clarify why 25barg is considered as design pressure. since upstream compressor design pressure is higher.

rated capacity is more than 40% higher than normal capacity. Please clarify.

-45/135

135

23+FV

23+FV

23+FV

Pump shut off pressure to be reported. Design pressure shall not be less than shut off pressure.

Shall be revised based on oil pump shut off pressure

J-PK-6101-1 shall be added