







OWNER:  شرکت سست و پوی توپرا ایران (سهامی خاص)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT						EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT		
	P&ID FOR NITROGEN GAS BOOSTER						 Netherlands		
MC : 	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
Owner Document Number: 17811-03A	BU	20	VD	303	PR	DWG	0013	Rev.:	Page
								08	1 of 4

This document will receive approval after eliminating discrepancy between PID and mechanical data sheet of compressor.

P&ID FOR GAS BOOSTER

 		BUSHEHR PETROCHEMICAL COMPANY MEG PLANT	
Document Review			
Issue Purpose:		AFC	
Result Code: AP,AN,CM,RE,NC		AN	
Next Status : IFC,IFA,IFI,AFC,AB		AFC	
Responsible Department		MECHANICAL	
Commented Date		Sep/10/2022	
Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.			

Revision number shall be revised.

08	18/08/2022	Approved for Construction	KP	JR	PW	
06	14/07/2022	Approved for Construction	KP	JR	PW	
05	01/06/2022	Approved for Construction	KP	JR	PW	
04	05/05/2022	Approved for Construction	KP	JR	PW	
03	10/03/2022	Approved for Construction	KP	JR	PW	
02	23/02/2022	Approved for Construction	KP	JR	PW	
01	04/11/2021	For approval	KP	JR	PW	
00	09/09/2021	For approval	KP	JR	PW	
Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
					Class: 2	Phase: DE

See comments on previous revision.

COMPRESSOR		PULS. DAMPER 1ST STAGE INLET		PULS. DAMPER 1ST STAGE OUTLET		PULS. DAMPER 2ND STAGE INLET		PULS. DAMPER 2ND STAGE OUTLET		INTER COOLER		AFTER COOLER	
Tagnumber:	20-C-1002	Tagnumber:	20-C-1002-M	Tagnumber:	20-DC-1002-1	Tagnumber:	20-DC-1002-2	Tagnumber:	20-DC-1002-3	Tagnumber:	20-DC-1002-4	Tagnumber:	20-AEC-1002-1
Type:	2-stage oilfree piston	Rated power:	45 kW	Volume:	90L	Volume:	80L	Volume:	34L	Volume:	45L	Flow (N2 side):	565 Nm ³ /hr
Compressor capacity:	565 Nm ³ /hr	Speed:	1485 rpm	OP / DP:	7 to 9 bar(a) / 13.5 bar(a)	OP / DP:	14.5 bar(a) / 25 bar(a)	OP / DP:	14.5 bar(a) / 25 bar(a)	OP / DP:	23.5 bar(a) / 26 bar(a)	Flow water side:	4.3 m ³ /hr
Discharge pr. 1st/2nd:	13.5 / 23.5 bar(a)	Power supply:	400 V / 50 Hz / 3 ph	OT / DT:	5 to 55°C / 0 to 85°C	OT / DT:	134°C / 0 to 170°C	OT / DT:	50°C / 0 to 85°C	OT / DT:	83°C / 0 to 100°C	OP / DP(shell):	14.5 bar(a) / 26 bar(a)
Design pr. 1st/2nd:	18 / 26 bar(a)	Nominal current:	TBC	Design:	AMSE VIII. Div. 1	Design:	AMSE VIII. Div. 1	Design:	AMSE VIII. Div. 1	Design:	AMSE VIII. Div. 1	OP / DP(tubes):	4.5 bar(g) / 10 bar(g)
Speed:	400 rpm	Ingress protection:	IP 55	Material:	Carbon steel	Material:	Carbon steel	Material:	Carbon steel	Material:	Carbon steel	OT / DT(shell):	134°C / 0 to 210°C
Discharge temperature:	134°C (83°C)	Hazardous area class:	Ex II 3G IIB T3, Eex'd									OT / DT(tubes):	35°C / 0 to 95°C
Desing temperatue:	170° / 170°C											Design:	TEMA C, AMSE VIII. Div. 1
												Material:	Carbon steel

GENERAL NOTES

NOTES :

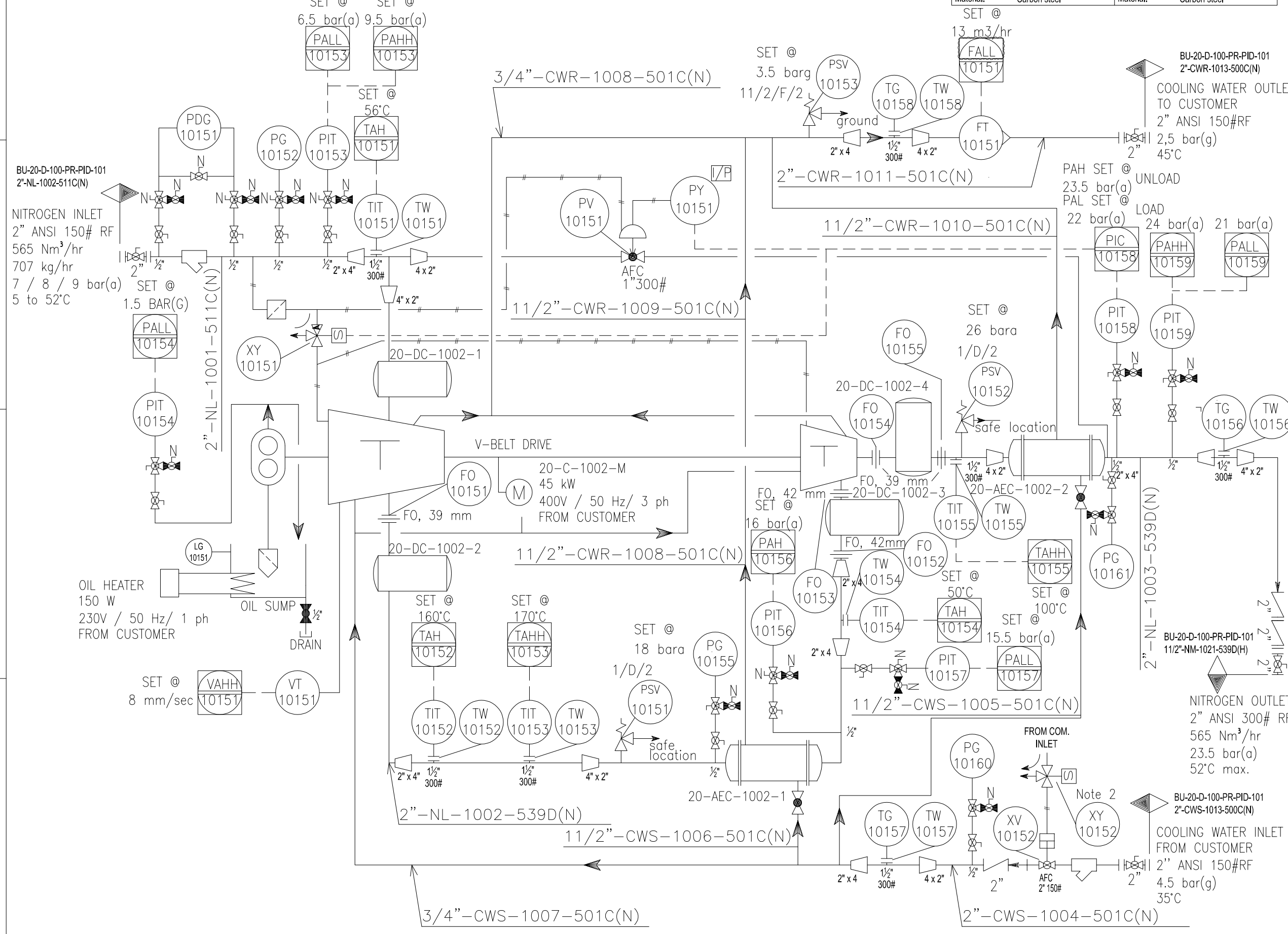
- All signals mentioned in P&ID will be transferred to FCS via Modbus TCP/IP communication link
- CW valve will open on compressor start en close on compressor stop

HOLDS:

- Deleted
- Deleted

Tie-In-Point :

TP-1: Nitrogen Compressor inlet
 TP-2: Nitrogen Compressor outlet
 TP-3: Main cooling water supply
 TP-4: Main cooling water return



REFERENCE DRAWINGS	DWG.No.
xxxxxxx	xxxxxxx

REV.	DATE	PURPOSE OF ISSUE (P.O.I.)	PREP.	CHKD.	APPR.	AC.
08	17/08/22	For construction	KP	CS	KP	JL
06	14/07/22	For construction	KP	CS	KP	JL
05	01/06/22	For construction	KP	CS	KP	JL
04	05/05/22	For construction	KP	CS	KP	JL
03	09/03/22	For construction	KP	CS	KP	JL
02	03/11/21	For approval	KP	CS	KP	JL
01	09/09/21	For approval	KP	CS	KP	JL

OWNER:

CONTRACTOR:

PROJECT: BUSHEHR PETROCHEMICAL COMPANY MEG PLANT

DRAWING TITLE: 17811-03 P&ID FOR NITROGEN GAS BOOSTER

CONTRACT NO.	SCALE	SIZE	CLASS	PHASE
S2-98/445	XX	A0	1	P

DOCUMENT NO.	PROJECT	AREA	PHASE	MRQ No.	DIS.	DOC.	SEQ.	SHEET	REV. NO.
	BU	20	VD	303	PR	DWG	0013	1 OF 2	08

