







OWNER:  شرکت سست و پوی توپو ایران (سهامی خاص)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT						EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT		
	MC :  شرکت سست و پوی توپو ایران (سهامی خاص)	P&ID FOR NITROGEN GAS BOOSTER						 Netherlands	
Owner Document Number: 17811-03A	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
	BU	20	VD	303	PR	DWG	0013	Rev.: 06	Page 1 of 4

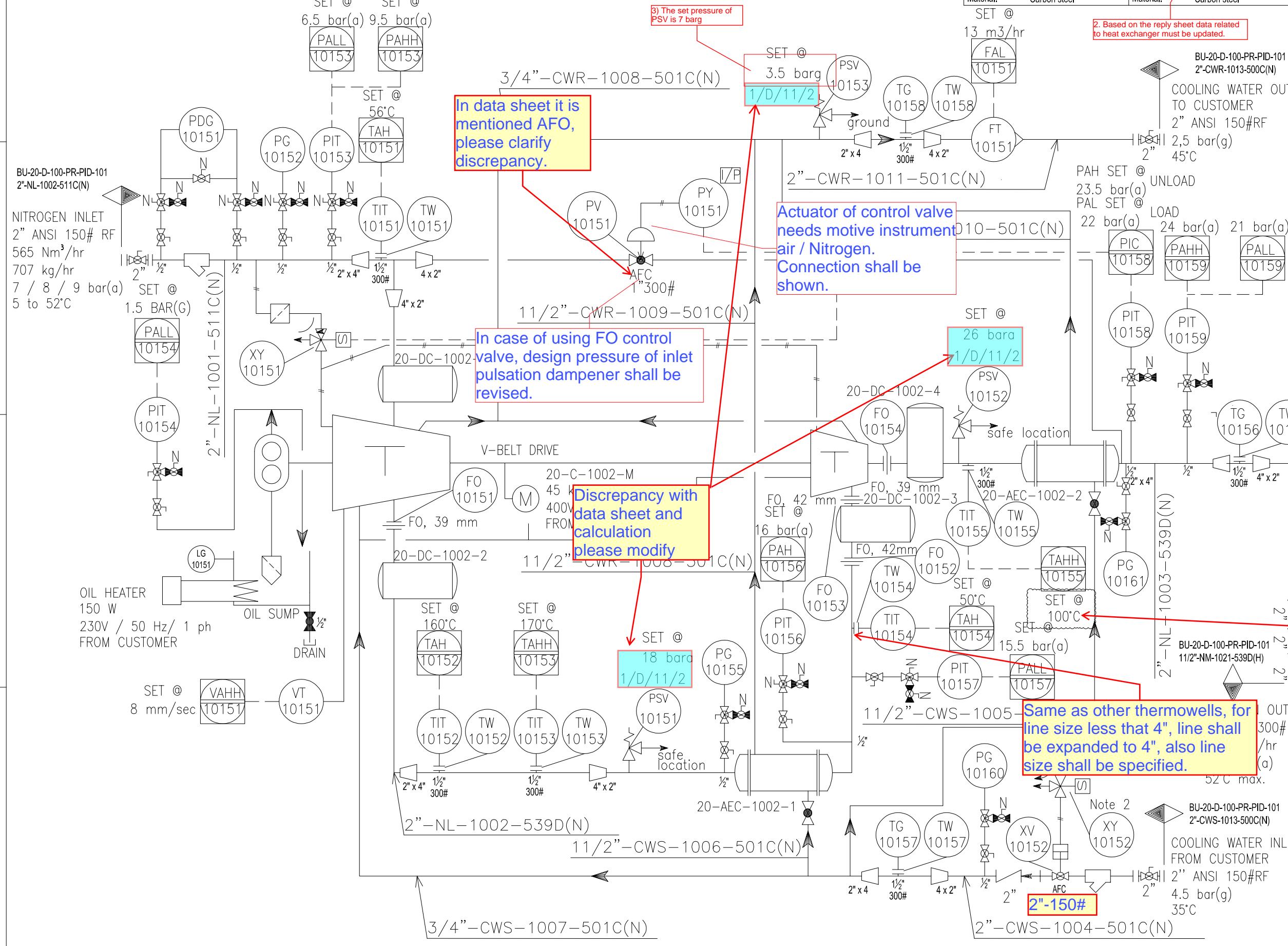
P&ID FOR GAS BOOSTER

 شرکت سست و پوی توپو ایران (سهامی خاص)	 Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	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	Jul /02/2022	
Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.		

06	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

A		B		C		D	
COMPRESSOR		MAIN MOTOR		PULS. DAMPER 1ST STAGE INLET		PULS. DAMPER 1ST STAGE OUTLET	
Tagnumber:	20-C-1002	Tagnumber:	20-C-1002-M	Tagnumber:	20-DC-1002-1	Tagnumber:	20-DC-1002-2
Type:	2-stage oilfree piston	Rated power:	45 kW	Volume:	90L	Volume:	80L
Compressor capacity:	565 Nm ³ /hr	Speed:	1485 rpm	OP / DP:	7 to 9 bar(a) (13.5 bar(a))	OP / DP:	13.5 bar(a) (25 bar(a))
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
Design pr. 1st/2nd:	13.5 / 26 bar(a)	Nominal current:	TBC	Design:	AMSE VIII. Div. 1	Design:	AMSE VIII. Div. 1
Desing temperature:	170° / 170°C	Ingress protection:	IP 55	Material:	Carbon steel	Material:	Carbon steel
		Hazardous area class:	Ex II 3G IIB T3, Eex'd				

GENERAL NOTES	
NOTES :	
1. All signals mentioned in P&ID will be transferred to FCS via Modbus TCP/IP communication link	
2. CW valve will open on compressor start en close on compressor stop	
HOLDS:	
1. Deleted	
2. 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	



1. All Documents must be consistent with each other. in data sheet. 14.5 bara.

In data sheet it is mentioned AFO, please clarify discrepancy.

3) The set pressure of PSV is 7 barg

2. Based on the reply sheet data related to heat exchanger must be updated.

Actuator of control valve needs motive instrument air / Nitrogen. Connection shall be shown.

In case of using FO control valve, design pressure of inlet pulsation dampener shall be revised.

Discrepancy with data sheet and calculation please modify

As per Trip & alarm set point list temperature set point is 140°C. Discrepancy shall be eliminated.

Same as other thermowells, for line size less than 4", line shall be expanded to 4", also line size shall be specified.

REV.	DATE	PURPOSE OF ISSUE (P.O.I.)	PREP.	CHKD.	APPR.	AC.
06	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:

MC:

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	06

