

OWNER:



شرکت مست و سویی ژوسه ایرانیان
(سهامی خاص)

**BUSHEHR PETROCHEMICAL COMPANY
MEG PLANT**

EPC CONTRACTOR:



Chagalesh-Enerchimi-Steam
Joint Venture
BUPC-MEG PLANT PROJECT

MC :



شرکت مست و سویی ژوسه ایرانیان
(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.:	Page
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**P&ID
FOR GAS BOOSTER**

02	04/11/2021	For approval	KP	JR	PW	
01	09/09/2021	For approval	KP	JR	PW	
Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
					Class: 1	Phase: P

OWNER:  شرکت ست و هوئی آوند ایرانین (سهایی ناسی)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT							EPC CONTRACTOR: 	
	P&ID FOR NITROGEN GAS BOOSTER								
MC :  شرکت ست و هوئی آوند ایرانین (سهایی ناسی)	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
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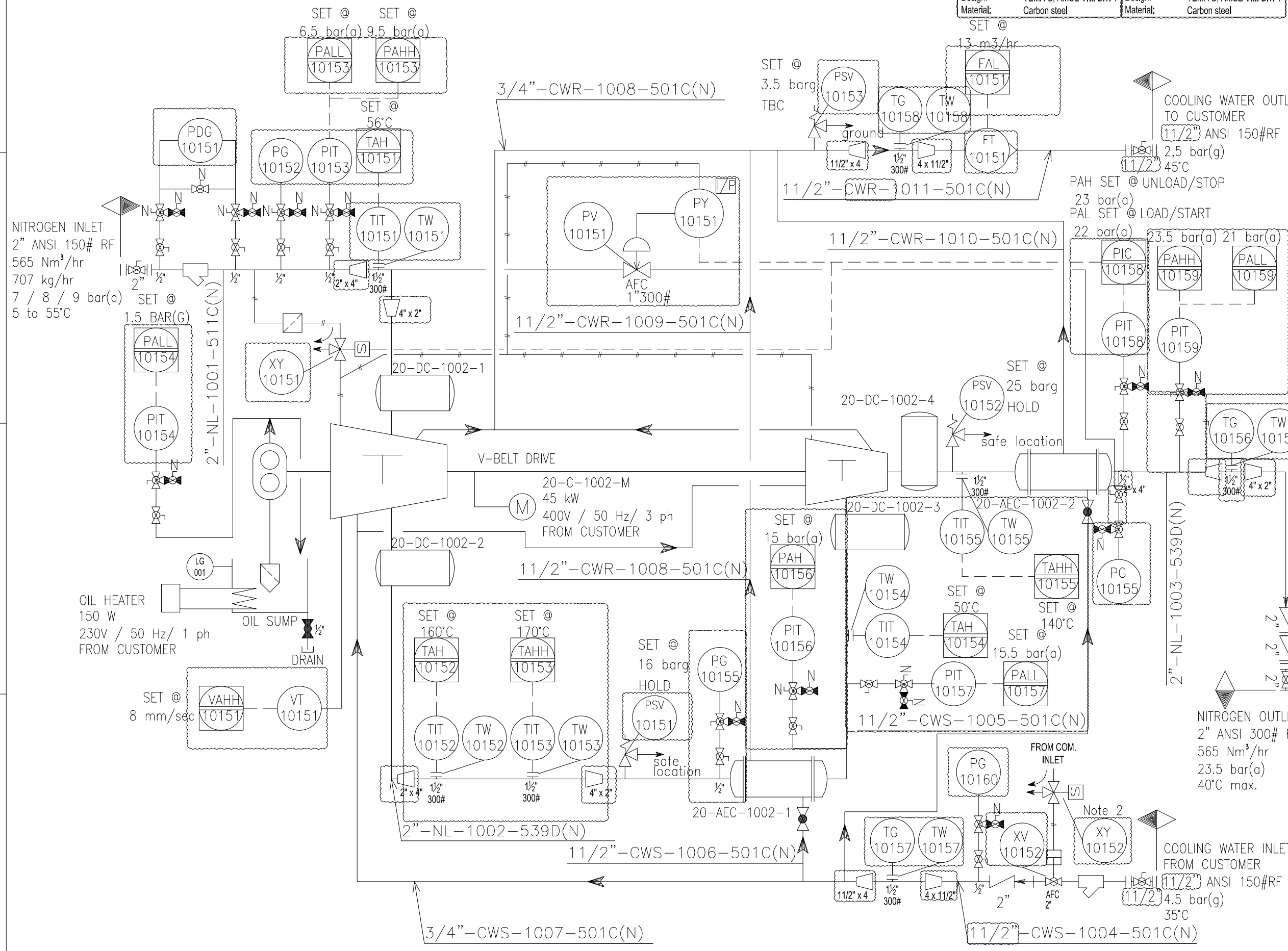
TABULATION OF REVISED PAGES

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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	Tagnumber: 20-DC-1002-3	Tagnumber: 20-DC-1002-4	Tagnumber: 20-AEC-1002-1	Tagnumber: 20-AEC-1002-2
Type: 2-stage oilfree piston	Rated power: 45 kW	Volume: TBC	Volume: TBC	Volume: TBC	Volume: TBC	Flow air side: 565 Nm ³ /hr	Flow air 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: 7 to 9 bar(a) / 13.5 bar(a)	Flow water side: 4.3 m ³ /hr	Flow water side: 1.4 m ³ /hr
Discharge pressure: 23.5 bar(a)	Power supply: 400 V / 50 Hz / 3 ph	OT / DT: 5 to 55°C / 0 to 80°C	OT / DT: 134°C / 0 to 170°C	OT / DT: 50°C / 0 to 80°C	OT / DT: 64°C / 0 to 80°C	OP / DP(shell): 14.5 bar(a) / 25 bar(a)	OP / DP(shell): 23 bar(a) / 25 bar(a)
Speed: 400 rpm	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)	OP / DP(tubes): 4.5 bar(g) / 10 bar(g)
Discharge temperature: 134°C / 64°C	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	OT / DT(shell): 64°C / 0 to 95°C
	Hazardous area class: Ex II 3G IIB T3, Eex'd					OT / DT(tubes): 35°C / 0 to 95°C	OT / DT(tubes): 35°C / 0 to 95°C
						Design: TEMA C, AMSE VIII. Div. 1	Design: TEMA C, AMSE VIII. Div. 1
						Material: Carbon steel	Material: Carbon steel

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 and close on compressor stop	
HOLDS:	
1. API designator for PSV to be determined after completion of PSV calculation	
2. Deleted	



REFERENCE DRAWINGS	DWG.No.
xxxxxxx	xxxxxxx

REV.	DATE	PURPOSE OF ISSUE (P.O.I.)	PREP.	CHKD.	APPR.	AC.
02	03/11/21	For approval	KP	CS	KP	JL
01	09/09/21	For approval	KP	CS	KP	JL

OWNER:	CONTRACTOR:

PROJECT:	DRAWING TITLE:
BUSHEHR PETROCHEMICAL COMPANY MEG PLANT	17811-03 P&ID FOR NITROGEN GAS BOOSTER

CONTRACT NO.	SCALE	SIZE	CLASS	PHASE
52-98/445	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	2

OWNER DOC. NO.:	BU	20	VD	303	PR	DWG	0013	1 OF 2	2
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