










OWNER:  شرکت سست و سویی آس آر 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								
MC :  شرکت سست و سویی آس آر ایران (سهامی خاص)	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
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General comment:
Vendor is expected to check all document carefully and eliminate all discrepancy (for example design temperature, operating temperature and etc. is different in P&ID and pulsation dampener data sheet.

P&ID FOR GAS BOOSTER

 شرکت سست و سویی آس آر 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	Apr/11/2022	
Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.		

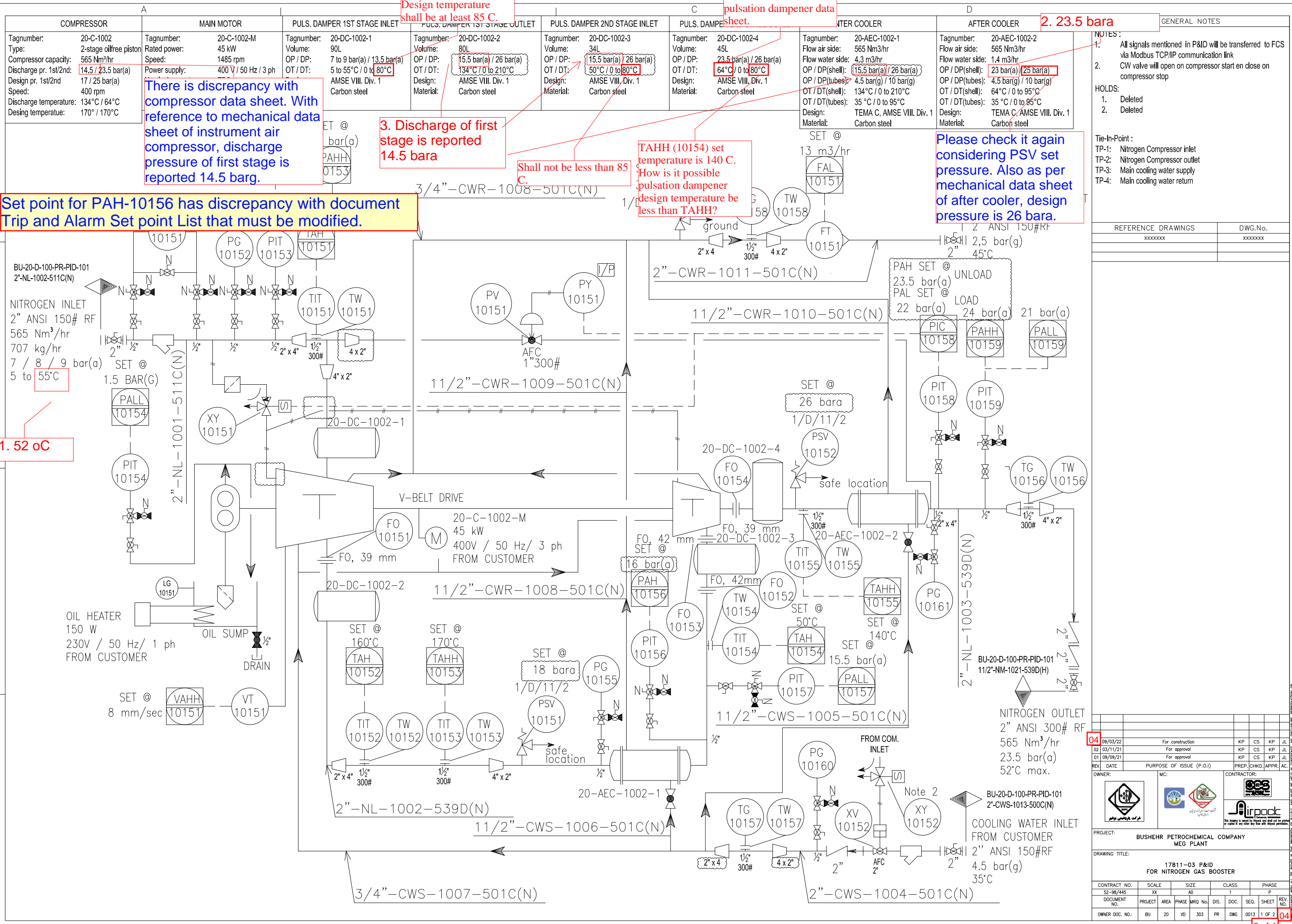
04	10/03/2022	Approved for Construction	KP	JR	PW	
02	23/02/2022	Approved for Construction	KP	JR	PW	
01	04/11/2021	For approval	KP	JR	PW	
00	09/09/2021	For approval	KP	JR	PW	
Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
					Class: 1	Phase: P

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	
Owner Document Number: 17811-03A	BU	20	VD	303	PR	DWG	0013	Rev.:	Page
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TABULATION OF REVISED PAGES

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1.	X	X	X	X	X
2.	X	X	X	X	X
3.	X	X	X	X	X
4.	X	X	X	X	X
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Set point for PAH-10156 has discrepancy with document Trip and Alarm Set point List that must be modified.

There is discrepancy with compressor data sheet. With reference to mechanical data sheet of instrument air compressor, discharge pressure of first stage is reported 14.5 barg.

3. Discharge of first stage is reported 14.5 bara

Shall not be less than 85 C.

TAHH (10154) set temperature is 140 C. How is it possible pulsation dampener design temperature be less than TAHH?

Please check it again considering PSV set pressure. Also as per mechanical data sheet of after cooler, design pressure is 26 bara.

1.52 oC

Design temperature shall be at least 85 C.

Shall be checked with pulsation dampener data sheet.

2. 23.5 bara

- 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 and 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

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

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.
0013	BU	20	VD	303	FR	DWG	0013	1 OF 2	04

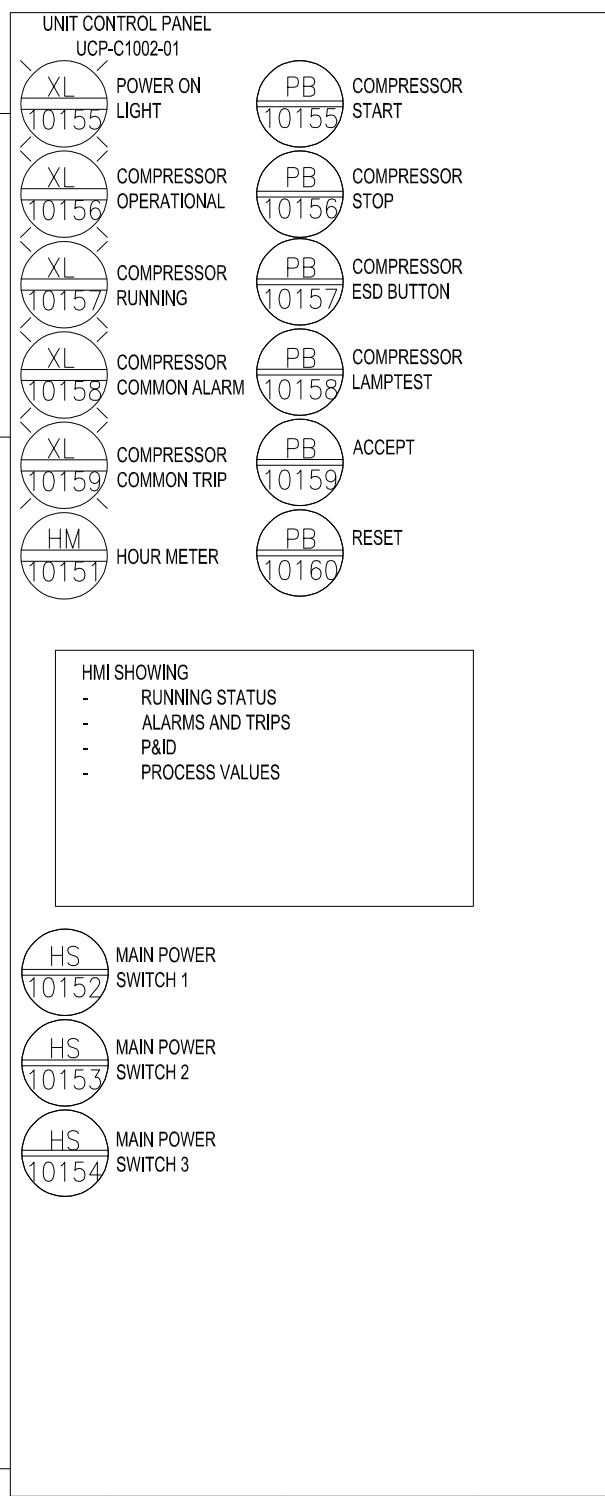
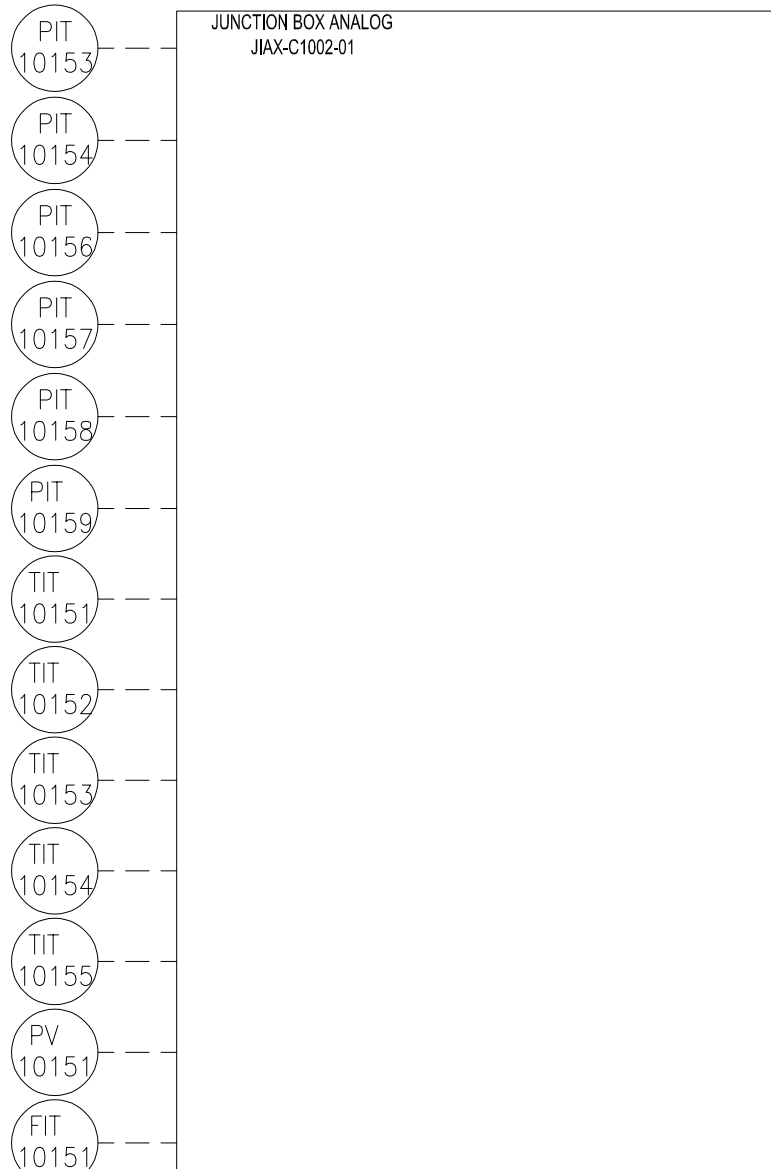
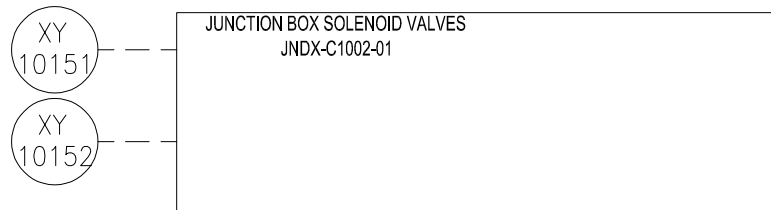
A

B

C

D

GENERAL NOTES



HMI SHOWING

- RUNNING STATUS
- ALARMS AND TRIPS
- P&ID
- PROCESS VALUES

REDUNDANT ETHERNET
MODBUS TCP/IP TO FCS

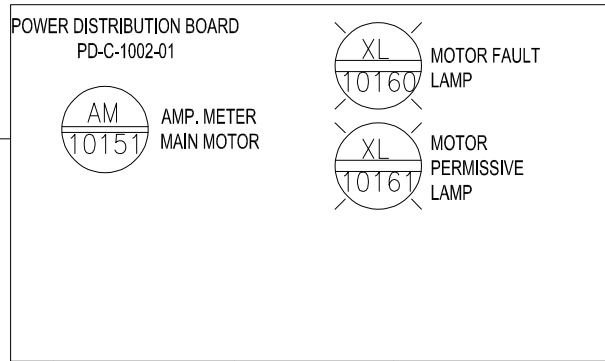
signals to / from ESD (HWC)
HS-108-SD-1(Emergency Shutdown Command)
XAL-108-2(Common Alarm)

signals from FCS
XCS-108(Time Synchronisation)

MULTICORE CABLE BY CLIENT

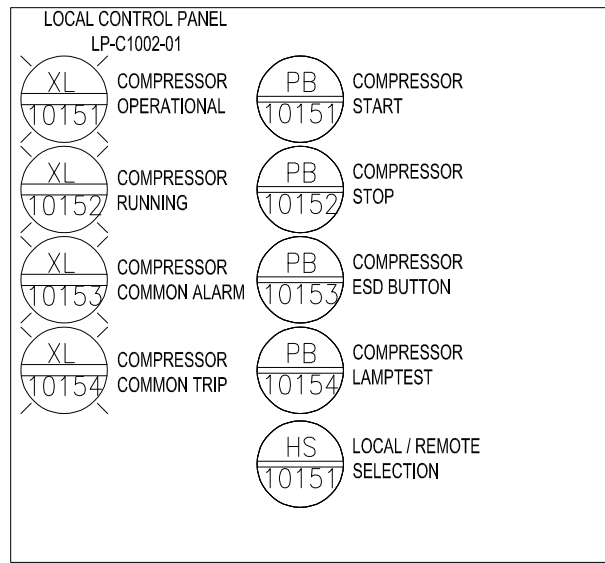
SIGNALS TO/FROM DB

- MOTOR RUNNING
- MOTOR FAULT
- MOTOR START / STOP
- HEATER ON/OFF
- HEATER FAULT
- HEATER ON



110 VAC, 1PH, 50HZ UPS POWER SUPPLY
110 VAC, 1PH, 50HZ UPS POWER SUPPLY
230VAC, 1PH, 50HZ POWER SUPPLY

400VAC, 3PH, 50HZ POWER SUPPLY
400VAC, 3PH, 50HZ TO MAIN MOTOR
230VAC, 1PH, 50HZ TO HEATER



04	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
REV.	DATE	PURPOSE OF ISSUE (P.O.I.)	PREP.	CHKD.	APPR.	AC.
OWNER:			MC:		CONTRACTOR:	
PROJECT: BUSHEHR PETROCHEMICAL COMPANY MEG PLANT						
DRAWING TITLE: 17811-03 P&ID NITROGEN COMPRESSOR						
CONTRACT NO.	SCALE	SIZE	CLASS	PHASE		
52-98/445	XX	A3	-	1	P	
DOCUMENT NO.	PROJECT	AREA	PHASE	MRQ No.	DIS.	DOC. SEQ.
OWNER DOC. NO.:	BU-20-VD-303-PR-DWG-0013					2 OF 2