

OWNER:



شرکت مست و سوبی آوسو ایرانیاان
(سهایی ناس)

**BUSHEHR PETROCHEMICAL COMPANY
MEG PLANT**

EPC CONTRACTOR:



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

MC :



شرکت مست و سوبی آوسو ایرانیاان
(سهایی ناس)

**INSTRUMENT CABLE LIST & SHEDULE
FOR NITROGEN GAS BOOSTER**



Contract No: 52-98/445

Owner Document Number:
17811-53A

| Project | Area | Phase | Unit | Dis. | Doc. | Seq. |
|---------|------|-------|------|------|------|------|
| BU | 20 | VD | 303 | EL | LST | 0038 |

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**INSTRUMENT CABLE LIST & SHEDULE FOR NITROGEN
GAS BOOSTER**

| Rev. | Date | Purpose of Issue | Prepared | Checked | Approved | AC Code |
|----------|------------|------------------|----------|---------|----------|---------|
| 02 | 10/12/2021 | For approval | AS | RB | KP | |
| 00 | 20/10/2021 | For approval | WZ | RB | KP | |
| Class: 1 | | Phase: P | | | | |

| SI | FROM | TO | GLAND | CABLE NAME | TO BOARD / INSTRUMENT | TERM . STRIP | TERMINAL | GLAND | LOCATION | CABLE | ARM/UNARM. | SHEATH COLOR | PROTECTION | CABLE TYPE | FUNCTION | SCOPE |
|----|---|--------------|-------|-------------------|-----------------------|--------------|---------------|-------|----------|----------|------------|-----------------|------------|------------|---|----------|
| | | | SIZE | | | | | SIZE | | mm2 | | | | | | |
| 1 | COMPRESSOR 20-C-1002 UCP-C1002-01 | | | | | | | | | | | | | | | |
| 2 | LP-C1002-01 | UCP-C1002-01 | M20-A | FCNDX-C1002-LCP01 | UCP-C1002-01 | X9 | 1...4 | N/A | FIELD | 5Px0,75 | ARMOUR | Gray | NIS | DN05A | COMPRESSOR A EMERGENCY SHUTDOWN | CUSTOMER |
| 3 | CUSTOMER (ESD SYSTEM) | UCP-C1002-01 | N/A | ESD_COM | UCP-C1002-01 | X9 | 5...9 | N/A | FIELD | 5Px0,75 | UNARMOUR | Gray, Red strip | NIS | DN05S | EMERGENCY SHUTDOWN FROM CUSTOMER | CUSTOMER |
| 4 | JNDX-C1002-01 | UCP-C1002-01 | M25-B | FCNDX-C1002-01 | UCP-C1002-01 | X1 | 1...10 | N/A | FIELD | 5Px2,5 | ARMOUR | Gray | NIS | VN05A | SOLENOIDS CONNECTION | CUSTOMER |
| 5 | FCS | UCP-C1002-01 | N/A | ICNLX-C1002-01 | UCP-C1002-01 | X4 | 1...8 | N/A | FIELD | 4Px23AWG | ARMOUR | Gray | NIS | LN04A | SERIAL COMMUNICATION TO CUSTOMER MODBUS TCP/IP | CUSTOMER |
| 6 | FCS | UCP-C1002-01 | N/A | ICNLX-C1002-02 | UCP-C1002-01 | X4 | 9...16 | N/A | FIELD | 4Px23AWG | ARMOUR | Gray | NIS | LN04A | SERIAL COMMUNICATION TO CUSTOMER MODBUS TCP/IP | CUSTOMER |
| 7 | LP-C1002-01 | UCP-C1002-01 | M25-B | FCNDX-C1002-LCP02 | UCP-C1002-01 | X5 | 1...26 | N/A | FIELD | 10Px0,75 | ARMOUR | Gray | NIS | DN10A | DIGITAL INPUTS CONNECTION | CUSTOMER |
| 8 | JIAX-C1002-01 | UCP-C1002-01 | M32-C | FCIAX-C1002-01 | UCP-C1002-01 | X2 | 1...20 | N/A | FIELD | 10Px0,75 | ARMOUR | Light Blue | IS | A110A | ANALOG INPUTS CONNECTION | CUSTOMER |
| 9 | PD-C-1002-01 | UCP-C1002-01 | M25-B | ICNDX-C1002-PDP | UCP-C1002-01 | X8 | 1...20 | N/A | FIELD | 10Px0,75 | ARMOUR | Gray | NIS | DN10A | SIGNALS FROM/TO DISTRIBUTION BOARD | CUSTOMER |
| 10 | FCS | UCP-C1002-01 | N/A | ICNDX-C1002-FCS | UCP-C1002-01 | X11 | 1...4 | N/A | FIELD | 2Px0,75 | UNARMOUR | Gray | NIS | DN02A | SIGNALS FROM/TO DCS | CUSTOMER |
| 11 | COMPRESSOR 20-C-1002 JNDX-C1002-01 | | | | | | | | | | | | | | | |
| 12 | JNDX-C1002-01 | XY-10151 | M20-A | XY-10151 | JNDX-C1002-01 | X1 | 1...2 | M20-A | FIELD | 1Px2,5 | ARMOUR | Gray | NIS | VN01A | COMPRESSOR A INLET SOLENOID VALVE XY-10001 | AIRPACK |
| 13 | JNDX-C1002-01 | XY-10152 | M20-A | XY-10152 | JNDX-C1002-01 | X1 | 3...4 | M20-A | FIELD | 1Px2,5 | ARMOUR | Gray | NIS | VN01A | COMPRESSOR A COOLING WATER INLET SOLENOID VALVE XY-10002 | AIRPACK |
| 14 | COMPRESSOR 20-C-1002 JIAX-C1002-01 | | | | | | | | | | | | | | | |
| 15 | JIAX-C1002-01 | PIT-10153 | M20-O | PIT-10153 | JIAX-C1002-01 | X2 | 1+,1-,1SCR | M20-O | FIELD | 1Px1,5 | ARMOUR | Light Blue | IS | A101A | COMPRESSOR A INLET PRESSURE PIT-10153 | AIRPACK |
| 16 | JIAX-C1002-01 | PIT-10154 | M20-O | PIT-10154 | JIAX-C1002-01 | X2 | 2+,2-,2SCR | M20-O | FIELD | 1Px1,5 | ARMOUR | Light Blue | IS | A101A | COMPRESSOR A OIL SYSTEM PRESSURE PIT-10154 | AIRPACK |
| 17 | JIAX-C1002-01 | PIT-10157 | M20-O | PIT-10157 | JIAX-C1002-01 | X2 | 3+,3-,3SCR | M20-O | FIELD | 1Px1,5 | ARMOUR | Light Blue | IS | A101A | COMPRESSOR A OUTLET PRESSURE PIT-10157 | AIRPACK |
| 18 | JIAX-C1002-01 | TIT-10151 | M20-O | TIT-10151 | JIAX-C1002-01 | X2 | 4+,4-,4SCR | M20-O | FIELD | 1Px1,5 | ARMOUR | Light Blue | IS | A101A | COMPRESSOR A INLET TEMPERATURE TIT-10151 | AIRPACK |
| 19 | JIAX-C1002-01 | TIT-10152 | M20-O | TIT-10152 | JIAX-C1002-01 | X2 | 5+,5-,5SCR | M20-O | FIELD | 1Px1,5 | ARMOUR | Light Blue | IS | A101A | COMPRESSOR A 1st STAGE TEMPERATURE TIT-10152 | AIRPACK |
| 20 | JIAX-C1002-01 | FT-10151 | M20-O | FT-10151 | JIAX-C1002-01 | X2 | 6+,6-,6SCR | M20-O | FIELD | 1Px1,5 | ARMOUR | Light Blue | IS | A101A | COMPRESSOR A COOLING WATER OUTLET FLOW FT-10151 | AIRPACK |
| 21 | JIAX-C1002-01 | VT-10151 | M20-O | VT-10151 | JIAX-C1002-01 | X2 | 7+,7-,7SCR | M20-O | FIELD | 1Px1,5 | ARMOUR | Light Blue | IS | A101A | COMPRESSOR A BEARING VIBRATION VT-10151 | AIRPACK |
| 22 | JIAX-C1002-01 | PIT-10156 | M20-O | PIT-10156 | JIAX-C1002-01 | X2 | 8+,8-,8SCR | M20-O | FIELD | 1Px1,5 | ARMOUR | Light Blue | IS | A101A | COMPRESSOR A FIRST DOWNSTREAM INTERCOOLER PRESSURE PIT-10156 | AIRPACK |
| 23 | JIAX-C1002-01 | PIT-10158 | M20-O | PIT-10158 | JIAX-C1002-01 | X2 | 9+,9-,9SCR | M20-O | FIELD | 1Px1,5 | ARMOUR | Light Blue | IS | A101A | COMPRESSOR A OUTLET PRESSURE PIT-10158 | AIRPACK |
| 24 | JIAX-C1002-01 | PIT-10159 | M20-O | PIT-10159 | JIAX-C1002-01 | X2 | 10+,10-,10SCR | M20-O | FIELD | 1Px1,5 | ARMOUR | Light Blue | IS | A101A | COMPRESSOR A OUTLET PRESSURE PIT-10159 | AIRPACK |
| 25 | JIAX-C1002-01 | TIT-10153 | M20-O | TIT-10153 | JIAX-C1002-01 | X2 | 11+,11-,11SCR | M20-O | FIELD | 1Px1,5 | ARMOUR | Light Blue | IS | A101A | COMPRESSOR A UPSTREAM AFTER COOLER TEMPERATURE TIT-10153 | AIRPACK |
| 26 | JIAX-C1002-01 | TIT-10154 | M20-O | TIT-10154 | JIAX-C1002-01 | X2 | 12+,12-,12SCR | M20-O | FIELD | 1Px1,5 | ARMOUR | Light Blue | IS | A101A | COMPRESSOR A FIRST DOWNSTREAM INTERCOOLER TEMPERATURE TIT-10154 | AIRPACK |
| 27 | JIAX-C1002-01 | TIT-10155 | M20-O | TIT-10155 | JIAX-C1002-01 | X2 | 13+,13-,13SCR | M20-O | FIELD | 1Px1,5 | ARMOUR | Light Blue | IS | A101A | COMPRESSOR A SECOND UPSTREAM INTERCOOLER TEMPERATURE TIT-10155 | AIRPACK |
| 28 | JIAX-C1002-01 | PV-10151 | M20-O | PV-10151 | JIAX-C1002-01 | X3 | 1+,1-,1SCR | M20-O | FIELD | 1Px1,5 | ARMOUR | Light Blue | IS | A101A | COMPRESSOR A COOLING WATER OUTLET FLOW FT-10001 | AIRPACK |
| 29 | COMPRESSOR 20-C-1002 PD-C-1002-01 | | | | | | | | | | | | | | | |
| 30 | FIELD | PT-100 | M20-O | PT-100 | PD-C-1002-01 | X10 | 1...2 | M20-O | FIELD | 2Cx1 | ARMOUR | Gray | NIS | RN02CA | COMPRESSOR A OIL SYSTEM PT-100 | AIRPACK |

Notes: Document according to "BU-20-D-000-IN-DSH-628-04 DATA SHEET FOR INSTRUMENT CABLES". The cable tag numbers are according to the wiring diagram for internal cables.