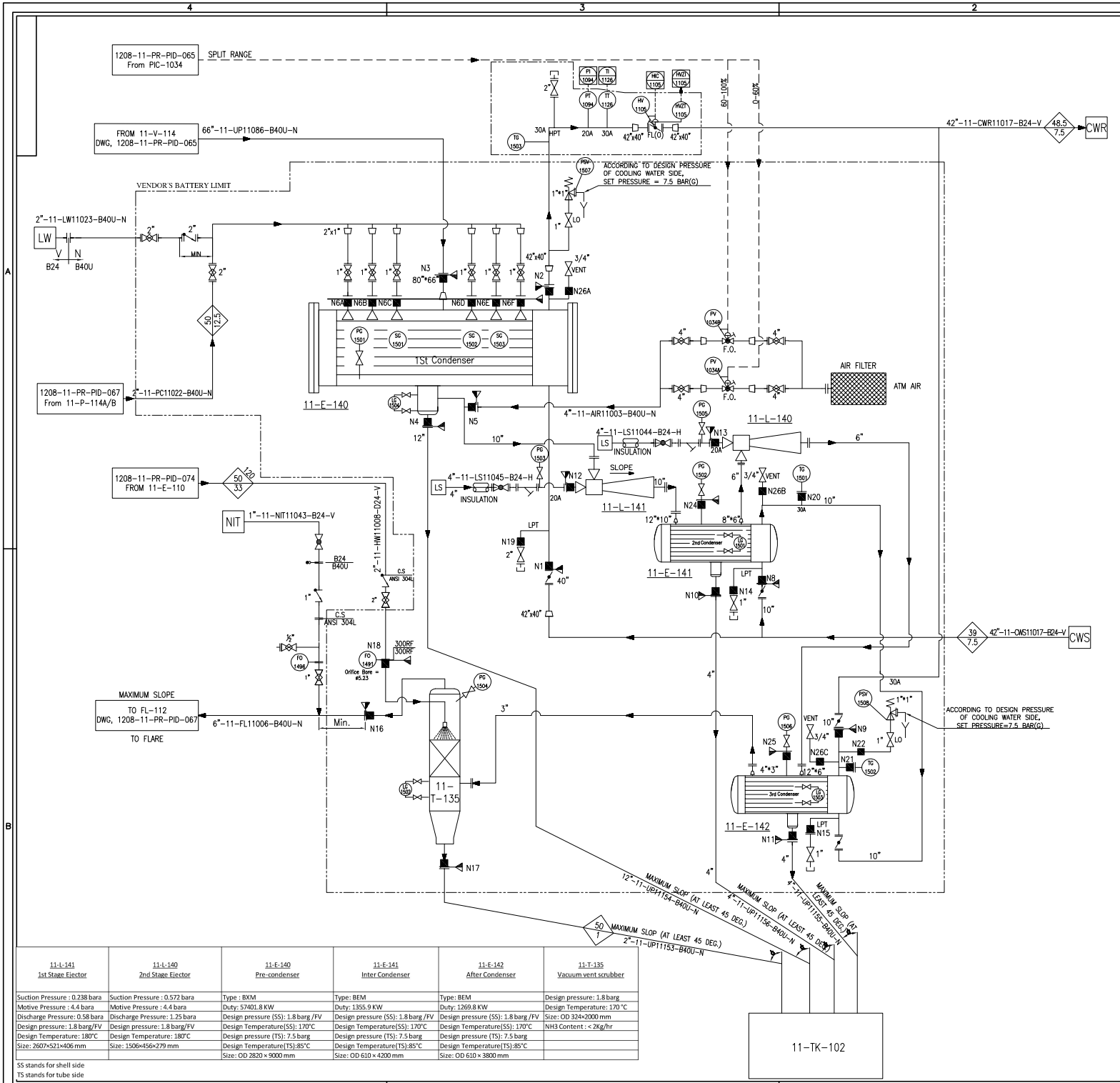
| REFERENCE DRAWING | DWG. NO. |
|---|---|
| SYMBOLS AND IDENTIFICATIONS | 1208-01-PR-PID-051-01 |

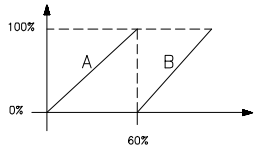



| 11-L-141<br>1st Stage Ejector | 11-L-140<br>2nd Stage Ejector | 11-E-140<br>Pre-condenser | 11-E-141<br>Inter Condenser | 11-E-142<br>After Condenser | 11-T-135<br>Vacuum vent scrubber |
|---|---|---|---|---|---|
| Suction Pressure : 0.238 bara | Suction Pressure : 0.572 bara | Type : BXM | Type: BEM | Type: BEM | Design pressure: 1.8 barg |
| Motive Pressure : 4.4 bara | Motive Pressure : 4.4 bara | Duty: 57401.8 KW | Duty: 1355.9 KW | Duty: 1269.8 KW | Design Temperature: 170 °C |
| Discharge Pressure: 0.58 bara | Discharge Pressure: 1.25 bara | Design pressure (SS): 1.8 barg /FV | Design pressure (SS): 1.8 barg /FV | Design pressure (SS): 1.8 barg /FV | Size: OD 324×2000 mm |
| Design pressure: 1.8 barg/FV | Design pressure: 1.8 barg/FV | Design Temperature(SS): 170°C | Design Temperature(SS): 170°C | Design Temperature(SS): 170°C | NH3 Content : < 2Kg/hr |
| Design Temperature: 180°C | Design Temperature: 180°C | Design pressure (TS): 7.5 barg | Design pressure (TS): 7.5 barg | Design pressure (TS): 7.5 barg | |
| Size: 2607×521×406 mm | Size: 1506×456×279 mm | Design Temperature(TS):85°C | Design Temperature(TS):85°C | Design Temperature(TS):85°C | |
| | | Size: OD 2820 × 9000 mm | Size: OD 610 × 4200 mm | Size: OD 610 × 3800 mm | |

SS stands for shell side
TS stands for tube side

## NOTES:

1. ALL DIMENSIONS IN MILLIMETER UNLESS OTHERWISE SPECIFIED.
2. FOR SYMBOLS AND OTHER DETAILS PLEASE REFER TO PID 1208-01-PR-PID-051.
3. SAFETY AND CONTROL VALVE IN/OUT LINES AND RELATED BYPASS LINE SIZE TO BE VERIFIED DURING ENGINEERING PHASE, AFTER CONTROL VALVES AND SAFETY VALVES SELECTION.
4. MFR / CONTRACTOR ——·——·—— VENDOR'S BATTERY LIMIT. ALL SHOWN INSTRUMENTS / VALVES/PSVS AND MANUAL VALVES ARE IN VENDOR SCOPE.
5. WHERE IT'S INDICATED "MIN" OR "MINIMUM DISTANCE" THE LENGTH OF THE INTERESTED PIPE TO BE KEPT AS SHORT AS POSSIBLE (ABOUT ONE HUNDRED MILLIMETERS) IN ORDER TO PREVENT DEAD ZONE.
6. ALL INSTRUMENT HAVE PREFIX "11", FOR EXAMPLE 11-PG-1503
7. ■ TIE-IN POINT
8. SPLIT RANGE OF PV-1034A/B AS FOLLOWING:




% CONTROLLER OUTPUT

- ☐ No Comment
- ☐ Comment As Marked, Manufacturing May Proceed
- ☐ Major Comment As Marked, Manufacturing Shall Be On Hold For The Next Revision.
- ☐ Rejected, New Document With The Same Revision No. shall Be Issued
- ☐ For Information

Name:
Signature:
Date:
Req. No.:
Seq. No.:

Purchaser review & comments does not absolve the vendor of the responsibility for the correct design, manufacturing and operation of the equipment.

| DE | | | |
|---|---|---|---|
| Eng. Phase | Purpose of Distribution (POD) | Purpose of Issue (POI) | Purchaser's Action |

| REV. | ISSUE DATE | DESCRIPTION | PREPARED BY | CHECKED BY | APPROVED BY | AUTHORIZED BY |
|---|---|---|---|---|---|---|
| 04 | 31.06.2022 | ISSUED FOR APPROVAL | A.R. | M.N. | H.I. | S.K. |
| 03 | 08.07.2022 | ISSUED FOR APPROVAL | A.R. | M.N. | H.I. | S.K. |
| 02 | 11.05.2022 | ISSUED FOR APPROVAL | A.R. | M.N. | H.I. | S.K. |
| 01 | 16.03.2022 | ISSUED FOR APPROVAL | A.R. | M.N. | H.I. | S.K. |
| 00 | 24.11.2021 | ISSUED FOR APPROVAL | A.R. | M.N. | H.I. | S.K. |

OWNER : MC : EPCC CONTRACTOR :

PROJECT : HENGAM FERTILIZER PROJECT

VENDOR : KARAJET KARA SANAT TADBIR PAYA

TITLE : PIPING AND INSTRUMENTATION DIAGRAM
For Vacuum Package

| SCALE : NONE | OWNER PROJECT NO. : NA | VENDOR DWG. NO. : 270-PID-00 | REV. 03 | SIZE A3 |
|---|---|---|---|---|
| SHT. : 1 OF 1 | PIDEC PROJECT NO. : 1208 | PIDEC DWG. NO. : VD-1208-325A-PID-038 | | |

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