




EPC for Onshore Processing Facilities and Associated Onshore Pipelines for Aung Sinkha Development Project (ASK) Phase 1A

**DATASHEET
FOR
BARRED TEE**

| | | 刘振 | 王月文 | | 吕忠雷 | 刘萍萍 | | | |
|-----|----------|-----|-----|-------------------|----------------------|-------|------------------|-------|--|
| A1 | 2-Jul-26 | LF | WYW | Issued for Review | LZL | LPP | | | |
| REV | DATE | MEC | PLR | DESCRIPTION | CHECK | APPR. | CHECK | APPR. | |
| | | BY | | | ENGINEERING APPROVAL | | COMPANY APPROVAL | | |

REVISION CODE: A = Issued for Review – B = Issued for Approval – C = Approved for Construction

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|  | PTTEP INTERNATIONAL LIMITED | |   |
| | EPC for Onshore Processing Facilities and Associated Onshore Pipelines for Aung Sinkha Development Project (ASK) Phase 1A | | |
| | MM-ASK-1A-APL02-PLR-DTS-0002 | REV A1 | |



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Revision

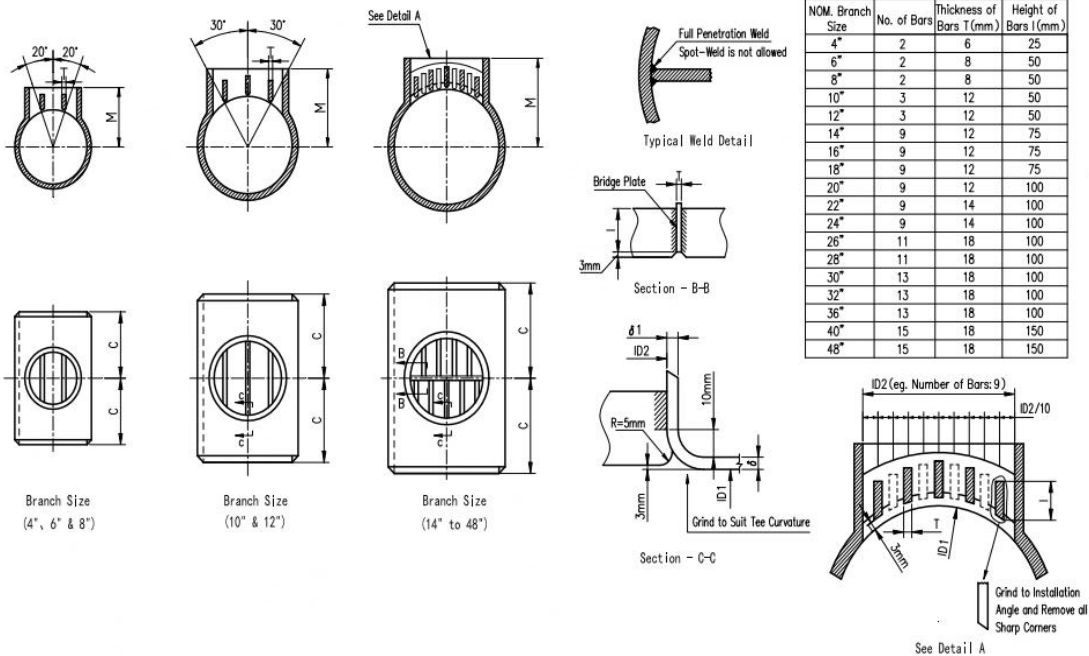
| | PARAMETER | UNIT | VALUE | |
|----|--|-------|--|----|
| 1 | GENERAL DESIGN DATA | | | |
| 2 | TAG NO. | - | BRT-58001 BRT-56001 | A1 |
| 3 | LOCATION | - | ACP | A1 |
| 4 | QUANTITY | - | 1 | A1 |
| 5 | DESIGN CODE | - | MSS-SP-75 and ASME B31.4 latest edition | A1 |
| 6 | DESIGN PRESSURE | barg | 48.7 | A1 |
| 7 | DESIGN TEMPERATURE (MIN. / MAX.) | °C | 0/70 | |
| 8 | CORROSION ALLOWANCE (MAIN / BRANCH) | mm | 3/3 | A1 |
| 9 | DESIGN LIFE (OPERATIONAL) | years | 20 | |
| 10 | DESIGN FACTOR | - | 0.72 | |
| 11 | PRESSURE CLASS RATING | - | #300 | A1 |
| 12 | SERVICE | - | Condensate | |
| 13 | DIMENSIONS - SIZE | NPS | 8 x 8 x6 | A1 |
| 14 | - WALL THICKNESS (MAIN / BRANCH) | mm | (NOTE 3) | |
| 15 | - HEIGHT OF BARS | mm | As per Figure 1 | A1 |
| 16 | - REFERENCE DRAWING | - | Figure 1 | |
| 17 | BAR THICKNESS | mm | VTA (NOTE 4) | |
| 18 | DRY WEIGHT | kg | VTA | |
| 19 | WELD TEST RING | - | 3 Pieces (NOTE 7) | |
| 20 | SURFACE PREPARATION AND COATING | - | As per 10008-STD-6-COR-003 | A1 |
| 21 | MATCHING PIPE | | | |
| 22 | DESIGN CODE | - | ASME B31.4 latest edition | A1 |
| 23 | INSIDE DIAMETER (MAIN / BRANCH) | mm | 219.1 / 168.3 | |
| 24 | LINE PIPE WALL THK. (MAIN / BRANCH) | mm | 7.04 / 7.11 | |
| 25 | MATERIAL (MAIN / BRANCH) | - | API 5L PSL 2 X65 / API 5L PSL 2 Gr B seamless | A1 |
| 26 | CONNECTION TYPE | - | Butt-Welded | |
| 27 | PIPE ORIENTATION | - | Horizontal | |
| 28 | MATERIAL REQUIREMENTS (NOTE 5) | | | |
| 29 | TEE MATERIAL | - | ASTM A694 F65 | |
| 30 | LINE PIPE MATERIAL | - | API 5L PSL 2 X65 | A1 |
| 31 | PLATE MATERIAL | - | ASTM A283 | |
| 32 | INSPECTION AND TESTING REQUIREMENTS | | | |
| 33 | INSPECTION & TESTING | - | 10008-STD-6-PLR-011 and MM-ASK-1A-APL01-PLR-SPE-0001 | |
| 34 | NDT | - | 100% in accordance with ASME BPVC SECTION V | |
| 35 | MILL HYDROTEST PRESSURE | barg | 60.88 | A1 |
| 36 | TEST CERTIFICATE REQUIREMENTS | - | BS EN 10204 - TYPE 3.2, Note 5 | A1 |
| 37 | CHARPY V IMPACT TEST | - | | |
| 38 | TEST TEMPERATURE | °C | 0 | A1 |
| 39 | ABSORBED ENERGY (MIN. AVERAGE) | J | 54 | |
| 40 | ABSORBED ENERGY (MIN. SINGLE) | J | 40 | |
| 41 | HARDNESS TEST | - | 250HV10 | |



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Revision

| | PARAMETER | UNIT | VALUE | |
|----|--|-------|--|----|
| 1 | GENERAL DESIGN DATA | | | |
| 2 | TAG NO. | - | BRT-40001 | A1 |
| 3 | LOCATION | - | APF | A1 |
| 4 | QUANTITY | - | 1 | A1 |
| 5 | DESIGN CODE | - | MSS-SP-75 and ASME B31.4 latest edition | A1 |
| 6 | DESIGN PRESSURE | barg | 48.7 | A1 |
| 7 | DESIGN TEMPERATURE (MIN. / MAX.) | °C | 0/70 | |
| 8 | CORROSION ALLOWANCE (MAIN / BRANCH) | mm | 3/3 | A1 |
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| 15 | - HEIGHT OF BARS | mm | As per Figure 1 | A1 |
| 16 | - REFERENCE DRAWING | - | Figure 1 | |
| 17 | BAR THICKNESS | mm | VTA (NOTE 4) | |
| 18 | DRY WEIGHT | kg | VTA | |
| 19 | WELD TEST RING | - | 3 Pieces (NOTE 7) | |
| 20 | SURFACE PREPARATION AND COATING | - | As per 10008-STD-6-COR-003 | A1 |
| 21 | MATCHING PIPE | | | |
| 22 | DESIGN CODE | - | ASME B31.4 latest edition | A1 |
| 23 | INSIDE DIAMETER (MAIN / BRANCH) | mm | 219.1 / 168.3 | |
| 24 | LINE PIPE WALL THK. (MAIN / BRANCH) | mm | 7.04 / 7.11 | A1 |
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| 31 | PLATE MATERIAL | - | ASTM A283 | |
| 32 | INSPECTION AND TESTING REQUIREMENTS | | | |
| 33 | INSPECTION & TESTING | - | 10008-STD-6-PLR-011 and MM-ASK-1A-APL01-PLR-SPE-0001 | A1 |
| 34 | NDT | - | 100% in accordance with ASME BPVC SECTION V | |
| 35 | MILL HYDROTEST PRESSURE | barg | 60.88 | A1 |
| 36 | TEST CERTIFICATE REQUIREMENTS | - | BS EN 10204 - TYPE 3.2, Note 5 | A1 |
| 37 | CHARPY V IMPACT TEST | - | | |
| 38 | TEST TEMPERATURE | °C | 0 | A1 |
| 39 | ABSORBED ENERGY (MIN. AVERAGE) | J | 54 | |
| 40 | ABSORBED ENERGY (MIN. SINGLE) | J | 40 | |
| 41 | HARDNESS TEST | - | 250HV10 | |

TYPICAL DRAWING
FIGURE 1: TYPICAL BARRED TEE DETAILS

NOTES:

- 1 VTA = VENDOR to advise.
- 2 All barred tee's shall be suitable for pigging operations. The VENDOR shall verify the internal diameter of each fabricated barred tee in order to match internal diameter of the connecting pipe. The minimum internal diameter of the completed barred tees shall be confirmed for smooth passage of pigs by passing an internal gauge through the full length of the bore. **The pig gauge shall have 2 equispaced and parallel 6 mm thick aluminium circular plates, each at least 96% of, or 4 mm less than, the internal nominal bore of the matching line pipe, whichever is the greater, separated by a rigid bar of total length once the specified Nominal ID**
- 3 The minimum wall thickness of barred tee shall not be less than the connecting pipe. The wall thickness shall be calculated and guaranteed by VENDOR. The design shall be adequate for test pressure.
- 4 Bar thickness in Figure 1 is preliminary only. VENDOR to advise the actual thickness based on vibration analysis, but must not be less than 1/2". The bar shall be full penetration welded before final heat treatment. The analysis shall be submitted for review.
- 5 All materials shall be supplied with mill test certificates. **Material traceability shall be in accordance with 10008-STD-6-GEN-007 "Material Traceability".**
- 6 All welds, welding procedure qualifications, and welder qualifications shall be strictly in accordance with ASME BPVC Section IX, API Standard 1104, 10008-STD-6-PLR-011, and MM-ASK-1A-APL01-PLR-SPE-0001.
- 7 VENDOR shall provide 3 pieces of weld test rings (350 mm length) for each heat no. of barred tee material.
- 8 Barred tee to be supplied with a **SS 316L** tag stamped securely fixed to the body of the tee. the tag nos. shall be in upper case, sans serif font of size minimum 4mm, black in colour, and on white background.
- 9 VENDOR shall provide design calculations using non-linear Finite Element Analysis as per ASME VIII, Division 2, Appendix 4 or an approved equivalent standard, together with fabrication drawings, all for for **CONTRACTOR/COMPANY** review and approval.
- 10 Inside surfaces of bars / welds shall be ground smooth.

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