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|  | MECHANICAL DATA SHEETS FOR INLET GAS K.O. DRUM   |               |                 |             |         |             |            |  |                    |
| شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴  | پروژه BK   | بسته کاری GCS | صادرکننده PEDCO | تسهیلات 120 | رشته ME | نوع مدرک DT | سریال 0001 | نسخه D02   | شماره صفحه: ۱ از ۸ |

طرح نگهداشت و افزایش تولید ۲۷ مخزن

MECHANICAL DATA SHEETS FOR INLET GAS K.O. DRUM

نگهداشت و افزایش تولید میدان نفتی بینک

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| D02  | SEP.2022 | IFA                       | H.Adineh     | M.Fakharian | M.Mehrshad   |                 |
| D01  | JAN.2022 | IFA                       | H.Adineh     | M.Fakharian | M.Mehrshad   |                 |
| D00  | DEC.2021 | IFC                       | H.Adineh     | M.Fakharian | M.Mehrshad   |                 |
| Rev. | Date     | Purpose of Issue / Status | Prepared by: | Checked by: | Approved by: | CLIENT Approval |

Class: 2

CLIENT Doc. Number: F0Z-708832

status:

IDC: Inter-Discipline Check

IFC: Issued For Comment

IFA: Issued For Approval

AFD: Approved For Design

AFC: Approved For Construction

AFP: Approved For Purchase

AFQ: Approved For Quotation

IFI: Issued For Information

AB-R: As-Built for CLIENT Review

AB-A: As-Built –Approved



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MECHANICAL DATA SHEETS FOR INLET GAS K.O. DRUM



شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

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# REVISION RECORD SHEET

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| 1    | X   | X   | X   |     |     |
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MECHANICAL DATA SHEETS FOR INLET GAS K.O. DRUM



شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

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## General Notes

D02

Rev.

1. The Asterisk \* denotes information and/or confirmation required from VENDOR. The Vendor shall be fully responsible for the complete mechanical design, preparing calculation book and supply of the vessel.

D02

2. Deleted.

D02

D02

3. VENDOR shall include for the services of a independent verification body for mechanical design, stage inspection, testing and stamping of the equipment (if possible).

D02

4. Painting and coating (internal & external) shall be as per project 'Specification for Painting', Doc. No. BK-GNRL-PEDCO-000-PI-SP-0006 and 'Specification for Lining', Doc. No. BK-GNRL-PEDCO-000-PI-SP-0007.

D02

5. Flanges shall comply with ASME B16.5. Nozzle bolt holes shall straddle the natural centrelines for horizontal nozzles. VENDOR to confirm maximum allowable nozzle loads and moments (RF: Raised Face, WN: Welding Neck)

D02

6. All reinforcement pads shall have 1/4" (6mm) tell-tale hole and 1/8" (3mm) vent hole as per Standard Detail Drawing For Pressure Vessels and Heat Exchangers', Doc. No. BK-GNRL-PEDCO-000-ME-DW-0001".

7. Manways shall be supplied complete with blind flange, external grab handles, internal grab handle and ladder rungs, nuts, bolting, gasket and proof load test davits. Davits shall be proof load tested on the vessels to 1.5 x Safe Working Load (SWL) and shall be marked accordingly.

8. All external bolts and nuts shall be hot dip galvanized. Internal bolts and nuts shall be stainless steel.

9. Loads at support base, Shall be calculated and determined by vendor.

10. Access Ladder & Platform to be considered .

D02

11. Deleted.

D02

12. Deleted.

D02

D02

13. The vendor shall be responsible for mechanical strength of the equipment based on mentioned condition in data sheets.

D02

14. All nozzle locations and orientations will be finalized later.

D02

15. Instrumentation items are excluded from vendor's scope of supply.

16. Any changes in material of construction, location & orientation of the nozzles shall be confirmed by client.

17. All materials shall be new and unused.

18. Fabrication tolerances for vessel shall be in accordance with requirement of ASME code.

19. Location and number of lifting lugs on vessels shall be specified on VENDOR drawing.

20. All items shall be clearly match marked against vessel drawings to facilitate erection.

D02

21. Deleted.

D02

22. Vendor shall supply details of all welding connections and give general specification of used materials.

23. For equipment requiring PWHT, final inspection and acceptance by the CLIENT or its nominated representative shall only be undertaken against NDE after PWHT. All weldings shall be made before vessel heat treatment (if any).

D02

24. Equipment packaging, preparation for shipment and delivery shall be in accordance with the project Packing, Marking, Transportation Procedure Doc. No. "BK-GNRL-PEDCO-000-QC-PR-0045".

D02

25. Specified accessories and attachments shall be supplied by vendor.

26. Gasket shall be spiral wound type, graphite filled with inner ring and outer ring S.S.316.

D02

27. Deleted.

D02

D02

28. Deleted.

29. Two M12 earthing bosses shall be provided on vessel support. Material of Earthing Bosses shall be S.S. 316



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شماره صفحه: ۴ از ۸

### General Notes (Cont'd)

Rev.

30. For standard detail of Earth lug execution refer to the Project "Standard Detail Drawing For Pressure Vessels and Heat Exchangers Doc. No. BK-GNRAL-PEDCO-000-ME-DW-0001".
31. Elliptical heads shall be Ultrasonic Tested for lamination after forming.
32. The projection of equipment's nozzles should be considered as per 'Standard Detail Drawing For Pressure Vessels and Heat Exchangers', Doc. No. BK-GNRAL-PEDCO-000-ME-DW-0001".
33. The elevation of equipment's nozzels should be specified as follows :
- For vertical vessels : from bottom T.L.
  - For horizontal vessels : from Left T.L.
34. Nozzles and flanges shall be suitably supported and reinforced based on nozzle loads provided in project Specification for Pressure Vessels, Document No. BK-GNRAL-PEDCO-000-ME-SP-0001.
35. Prior to sealing the vessel for shipping and storage, the inside surface of the equipment shall be 100% visually inspected. Internal surfaces shall be clean and thoroughly dried. The CLIENT or its nominated representative shall witness the cleanliness of internal surfaces. Flange faces shall be protected by wooden or plastic dummy flanges.
- D02 36. Minimum requirement for pre-commissioning, commissioning, start up and two years operation and spare parts shall be in accordance with document E&C-QC-SP-1.
37. Lifting Lugs / trunnions shall be provided to facilitate a single point lift. If a single point lift cannot be achieved without the use of a lifting beam, then VENDOR shall provide a suitable, certified, lifting beam.
38. Design pressure specified is at top of vessels. VENDOR design shall include static head for vessels flooded with specific gravity of the handled liquid.
39. VENDOR is to maximize shop fabrication based on the following transportation limits:
- Maximum weight: 96 tonnes
  - Maximum load per axle: 12 tonnes
  - Maximum length: 50.0 m
  - Maximum width: 5.0 m
  - Maximum height: 5.2 m
- For items with dimensions and weights greater than the road capacity specified above, VENDOR may be required to split the package into several components.
40. All external attachments directly welded to the pressure part shall be the same material as vessel grade.
41. All dimensions are in "mm" unless otherwise specified.
42. The material shall be in compliance with NACE MR0175/ISO15156 and Specification For Material Requirements in Sour service Document No. BK-GNRAL-PEDCO-000-PI-SP-0008.
43. Nozzle loads shall be in accordance with "Specification for pressure vessel, Doc. No.:BK-GNRAL-PEDCO-000-ME-SP-0001".
- D02 44. DEMISTER specification will be finalized latter.
45. Welded carbon and carbon manganese steels for vessel shall comply with the following :
- Carbon content shall not exceed 0.23%.
- Based on the ladel analysis, below equation shall be satisfied.
- $$Ceq. = C + Mn/6 + (Cr + Mo + V)/5 + (Cu + Ni)/15 < 0.42 \%$$
46. All carbon steel material shall be fully killed, fine grain treated and supplied in the normalized condition.

D02



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MECHANICAL DATA SHEETS FOR INLET GAS K.O. DRUM



شماره پیمان:



۰۵۳ - ۰۲۳ - ۹۱۸۴


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| D02  | 0001  | DT       | ME   | 120     | PEDCO      | GCS       | BK    |

شماره صفحه: ۵ از ۸

Mech. Data Sheet For Inlet Gas K.O. Drum (V-2105) / sheet 1 of 4

| Rev | DATA SHEET  |  |  |                                 |  | Rev |
|-----|---|--|--|---------------------------------|--|-----|
|     | 1   | Description : <i>Inlet Gas K.O. Drum</i> |  |                                 |  |     |
|     | 2   | Tag No. : <i>V-2105</i>                  |  | Quantity : <i>1 Set</i>         |  |     |
|     | 3   | Type : <i>Pressure Vessel</i>            |  |                                 |  |     |
|     | 4   | Process Design Data                      |  |                                 |  |     |
|     | 5   | Contents                                 |  | Corrosive / Erosive             |  |     |
|     | 6   | Operating Temp. (°C)                     |  | Liquid Flow (kg/h)              |  |     |
|     | 7   | Operating Press. (barg)                  |  | Vap. Molec. Weight (kg/kmol)    |  |     |
|     | 8   | Gas Flow (kg/h)                          |  | Liquid Sp. Gravity              |  |     |
|     | 9   | Liquid Viscosity (cP)                    |  | Lethal / SOUR :                 |  |     |
|     | 10  | Mechanical Design Data (Note 1)          |  |                                 |  |     |
| D02 | 11  | Design Temp. (°C)                        |  | Vessel Orientation              |  |     |
|     | 12  | Design Press. (barg)                     |  | HHLL (mm)                       |  |     |
|     | 13  | Test Press. (barg)                       |  | Nor. Liquid Vol. (m³)           |  |     |
|     | 14  | Internal Vacuum (barg)                   |  | In. Dia. Of Boots (mm)          |  |     |
|     | 15  | In. Dia. of Shell (mm)                   |  | Boot Length (mm)                |  |     |
|     | 16  | Tan/Tan Dim. (mm)                        |  | Boot Head Type                  |  |     |
|     | 17  | Vessel Head Type                         |  | Corr. Allowance (mm)            |  |     |
|     | 18  | Shell Wall Thk. (mm)                     |  | Joint Efficiency                |  |     |
|     | 19  | Head Wall Thk. (mm)                      |  | Ambient Temp.(Min. / Max.) (°C) |  |     |
|     | 20  | Seismic Design                           |  | MDMT (°C)                       |  |     |
| 21  | Wind Design   |  | Insulation Required  |                                 |  |     |
|     | 22  | Materials (Note 42, 45, 46)              |  |                                 |  |     |
| D02 | 23  | Code                                     |  | Internal Welded and Supports    |  |     |
| D02 | 24  | Shell                                    |  | Nozzle Necks                    |  |     |
| D02 | 25  | Heads                                    |  | Pipes                           |  |     |
| 26  | Lining  |  | Plates   |                                 |  |     |
| D02 | 27  | Saddles                                  |  | Forgings                        |  |     |
| D02 | 28  | Wear Plate                               |  | Flanges                         |  |     |
| D02 | 29  | Stiffening Rings                         |  | Fittings                        |  |     |
| 30  | Gaskets   |  | Removable Internals  |                                 |  |     |
| D02 | 31  | Lifting Lugs                             |  | External Bolts                  |  |     |
| D02 | 32  | Reinforcing Pads                         |  | Nuts                            |  |     |
| 33  | Ladder & Platform                                       |  | Internal Bolts   |                                 |  |     |
| 34  | Gratings  |  | Nuts   |                                 |  |     |
| D02 | 35  | External Welded Clips and support        |  | Name Plate                      |  |     |
| 36  |   |  |  |                                 |  |     |
| 37  | REFERENCE STANDARDS & DOCUMENTS                         |  |  |                                 |  |     |
| 38  | Mechanical Design Code                                  |  | ASME Sec VIII Div 1, IPS-G-ME-150  |                                 |  |     |
| 39  | Specification for Pressure Vessels                      |  | BK-GNRAL-PEDCO-000-ME-SP-0001  |                                 |  |     |
| 40  | Process Basis of Design                                 |  | BK-GNRAL-PEDCO-000-PR-DB-0001  |                                 |  |     |
| 41  | Piping & Instrument Diagram (P&ID)                      |  | BK-GCS-PEDCO-120-PR-PI-0005  |                                 |  |     |
| 42  | Specification for Painting                              |  | BK-GNRAL-PEDCO-000-PI-SP-0006  |                                 |  |     |
| 43  | Specification for Insulation                            |  | BK-GNRAL-PEDCO-000-PI-SP-0019  |                                 |  |     |
| 44  | Specification For Material Requirements in Sour service |  | BK-GNRAL-PEDCO-000-PI-SP-0008  |                                 |  |     |
| 45  | Fabrication and Inspection Requirements                 |  |  |                                 |  |     |
| 46  | Inspection Authority                                    |  | TPI & Client   |                                 |  |     |
| 47  | Material Certification                                  |  | In Accordance with BS EN 10204:2004, Type 3.1, Minimum for Pressure Containing and Attachments |                                 |  |     |
| 48  | Hydro Test Medium                                       |  | Hydro Test Procedure   |                                 |  |     |
| 49  | Post Weld Heat Treatment                                |  | PT   |                                 |  |     |
| 50  | MT  |  | UT   |                                 |  |     |
| 51  | RT  |  |  |                                 |  |     |
| 52  |   |  |  |                                 |  |     |
| 53  |   |  |  |                                 |  |     |
| 54  | RT Report   |  | PT Report  |                                 |  |     |
| 55  | MT Report   |  | UT Report  |                                 |  |     |
| 56  | Fabrication Quality Control Plan (With Offer)           |  | Yes  |                                 |  |     |
| 57  | Welding Procedure Review / Approval                     |  | Yes  |                                 |  |     |
| 58  | Surface Preparation & Coating                           |  | Specification for Painting: Doc. No. "BK-GNRAL-PEDCO-PI-SP-0006"                               |                                 |  |     |
| 59  |   |  | Specification For Lining: Doc. No.: "BK-GNRAL-PEDCO-000-PI-SP-0007"                            |                                 |  |     |
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| <br><b>NISOC</b> | نگهداشت و افزایش تولید میدان نفتی بینک<br>سطح الارض |           |            |         |      |          |       |  |                    |
|  | احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک       |           |            |         |      |          |       |  |                    |
|  | MECHANICAL DATA SHEETS FOR INLET GAS K.O. DRUM      |           |            |         |      |          |       |  |                    |
| شماره پیمان:   | پروژه   | بسته کاری | صادر کننده | تسهیلات | رشته | نوع مدرک | سریال | نسخه   | شماره صفحه: ۸ از ۶ |
| ۰۵۳ - ۰۷۳ - ۹۱۸۴   | BK  | GCS       | PEDCO      | 120     | ME   | DT       | 0001  | D02  |                    |

| Mech. Data Sheet For Inlet Gas K.O. Drum (V-2105) / sheet 2 of 4                                 |   |                           |             |                        |  |             |                        |                           |             |               |      |         |      |
|--|---|---------------------------|-------------|------------------------|--|-------------|------------------------|---------------------------|-------------|---------------|------|---------|------|
| Rev.   | ACCESSORIES , NOZZLES LIST & LOADS @ BASE |                           |             |                        |  |             |                        |                           |             |               |      |         | Rev. |
| D02  | Accessories & Attachments (Note 25, 40)   |                           |             |                        |  |             |                        |                           |             |               |      |         | D02  |
|  | Supporting Saddles                        |                           |             | YES                    | Name Plate Bracket                       |             |                        | YES                       |             |               |      |         |      |
|  | Access Ladder & Platform                  |                           |             | YES                    | Name Plate                               |             |                        | YES                       |             |               |      |         |      |
|  | Insulation Support                        |                           |             | NO                     | Earthing Lug (Note 29, 30)               |             |                        | YES                       |             |               |      |         |      |
|  | Insulation                                |                           |             | NO                     | Tailing Lug                              |             |                        | N/A                       |             |               |      |         |      |
|  | Insulation Cover                          |                           |             | NO                     | Cathodic Protection (Sacrificial Anodes) |             |                        | YES                       |             |               |      |         |      |
|  | Fireproofing Support                      |                           |             | NO                     | Anchor Bolts                             |             |                        | NO                        |             |               |      |         |      |
|  | Lifting Lugs                              |                           |             | YES                    | Instrumentations                         |             |                        | NO                        |             |               |      |         |      |
|  | Internal/ External Clips                  |                           |             | YES                    | Skid                                     |             |                        | N/A                       |             |               |      |         |      |
|  | Tampate                                   |                           |             | NO                     | Support Clips                            |             |                        | YES                       |             |               |      |         |      |
|  | Boot                                      |                           |             | YES                    | Vortex Breaker                           |             |                        | YES                       |             |               |      |         |      |
|  | Davit for Manhole                         |                           |             | YES                    | Rung & Grip                              |             |                        | YES                       |             |               |      |         |      |
|  | Internal Lining (By Painting)             |                           |             | NO                     | Heating Coil                             |             |                        | NO                        |             |               |      |         |      |
|  |   |                           |             |                        |  |             |                        |                           |             |               |      |         |      |
|  | Nozzles List (Note 1,5,6,14,32,33)        |                           |             |                        |  |             |                        |                           |             |               |      |         |      |
| Mark   | Qty.                                      | Description               | Pipe        |                        |  | Flange      |                        |                           | Proj. (mm)  | Reinforcement |      | Remarks |      |
|  |   |                           | Size        | Thk.                   | Sch.*                                    | Type        | Rate.                  | Face                      |             | Thk.          | O.D. |         |      |
| A  | 1   | Inlet                     | 10"         |                        |  | WN          | #150                   | RF                        | SEE DWG     |               |      |         |      |
| B1   | 1   | Gas Outlet                | 10"         |                        |  | WN          | #150                   | RF                        | SEE DWG     |               |      |         |      |
| B2   | 1   | Liquid Outlet             | 2"          |                        |  | WN          | #150                   | RF                        | SEE DWG     |               |      |         |      |
| V1   | 1   | Vent                      | 2"          |                        |  | WN          | #150                   | RF                        | SEE DWG     |               |      |         |      |
| V2   | 1   | Ventilation               | 6"          |                        |  | WN          | #150                   | RF                        | SEE DWG     |               |      |         |      |
| M  | 1   | Manhole                   | 24"         |                        |  | WN          | #150                   | RF                        | SEE DWG     |               |      | 7       |      |
| S  | 1   | Utility Connection        | 2"          |                        |  | WN          | #150                   | RF                        | SEE DWG     |               |      |         |      |
| D  | 1   | Drain                     | 2"          |                        |  | WN          | #150                   | RF                        | SEE DWG     |               |      |         |      |
| L 1,2  | 2   | Stand Pipe                | 3"          |                        |  | WN          | #150                   | RF                        | SEE DWG     |               |      |         |      |
| L 3,4  | 2   | Level Transmitter (HH)    | 2"          |                        |  | WN          | #300                   | RF                        | SEE DWG     |               |      |         |      |
| PSV  | 1   | Pressure Safety Valve     | 2"          |                        |  | WN          | #150                   | RF                        | SEE DWG     |               |      |         |      |
| P1   | 1   | Pressure Gauge            | 2"          |                        |  | WN          | #300                   | RF                        | SEE DWG     |               |      |         |      |
| P2   | 1   | Pressure transmitter      | 2"          |                        |  | WN          | #300                   | RF                        | SEE DWG     |               |      |         |      |
| T  | 1   | Temperature gauge (HH)    | 2"          |                        |  | WN          | #300                   | RF                        | SEE DWG     |               |      |         |      |
| Deleted  |   |                           |             |                        |  |             |                        |                           |             |               |      |         |      |
| L 5,6  | 2   | Level Transmitter (H/L)   | 2"          |                        |  | WN          | #300                   | RF                        | SEE DWG     |               |      |         |      |
| P3   | 1   | PDIT                      | 2"          |                        |  | WN          | #300                   | RF                        | SEE DWG     |               |      |         |      |
|  |   |                           |             |                        |  |             |                        |                           |             |               |      |         |      |
| Wind and Seismic Loads at Base * Note(9)   |   |                           |             |                        |  |             |                        |                           |             |               |      |         |      |
| <br>Load Type | Empty Condition                           |                           |             | Operating Condition    |  |             | Testing Condition      |                           |             |               |      |         |      |
|  | Max. Shear @ Base (Kg)                    | Max. Moment @ Base (Kg.m) | Weight (Kg) | Max. Shear @ Base (Kg) | Max. Moment @ Base (Kg.m)                | Weight (Kg) | Max. Shear @ Base (Kg) | Max. Moment @ Base (Kg.m) | Weight (Kg) |               |      |         |      |
| WIND   |   |                           |             |                        |  |             |                        |                           |             |               |      |         |      |
| SEISMIC  |   |                           |             |                        |  |             |                        |                           |             |               |      |         |      |



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نگهداشت و افزایش تولید میدان نفتی بینک  
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

MECHANICAL DATA SHEETS FOR INLET GAS K.O. DRUM



شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

GCS

صادرکننده

PEDCO

تسهیلات

120

رشته

ME

نوع مدرک

DT

سریال

0001

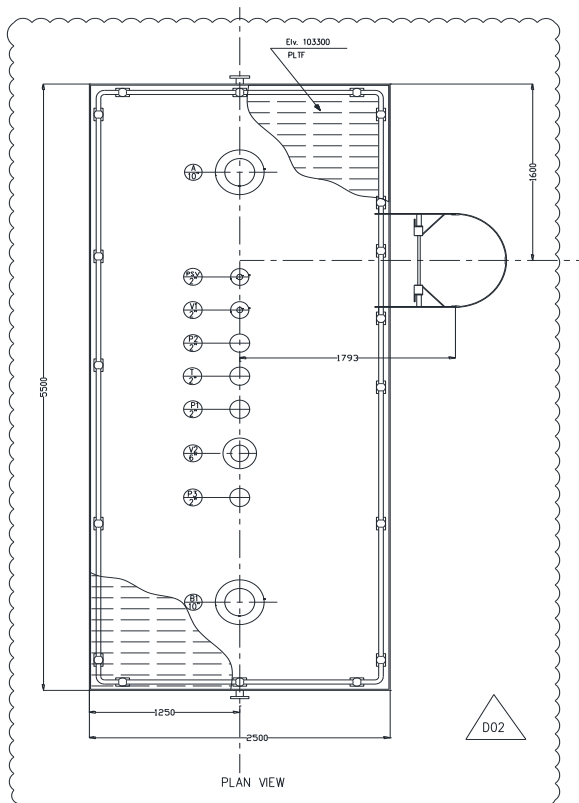
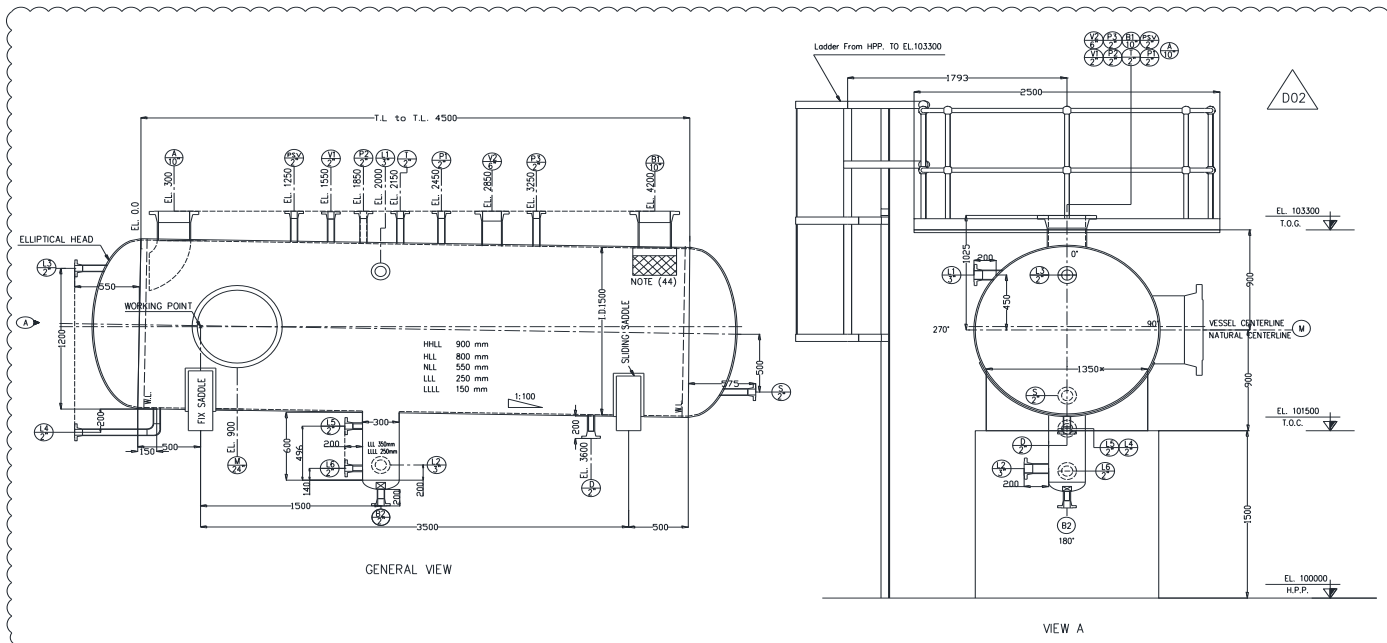
نسخه

D02

شماره صفحه: ۷ از ۸

Mech. Data Sheet For Inlet Gas K.O. Drum (V-2105) / sheet 3 of 4

Sketch





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نگهداشت و افزایش تولید میدان نفتی بینک  
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

MECHANICAL DATA SHEETS FOR INLET GAS K.O. DRUM



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تجهیزات

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نسخه

D02

شماره صفحه: ۸ از ۸

Mech. Data Sheet For Inlet Gas K.O. Drum (V-2105) / sheet 4 of 4

| Rev. | WEIGHT   |                   |             |                        |                    |  | Rev. |
|------|--|-------------------|-------------|------------------------|--------------------|--|------|
| 1    | <b>WEIGHT CONTROL DATA SHEET</b><br>SI UNIT *                                      |                   |             |                        |                    | <b>1/1</b>                                 |      |
| 2    |  |                   |             |                        |                    |  |      |
| 3    |  |                   |             |                        |                    |  |      |
| 4    |  |                   |             |                        |                    |  |      |
| 5    |  |                   |             |                        |                    |  |      |
| 6    | Service : <i>Inlet Gas K.O. Drum</i>   |                   |             |                        |                    | Location : <i>Bushehr (Binak Oilfield)</i> |      |
| 7    | Type :   |                   |             |                        |                    | Quotation No. :                            |      |
| 8    | No. trains :   |                   |             |                        |                    | Serial No. :                               |      |
| 9    | No. stages :   |                   |             |                        |                    |  |      |
| 10   | Supplier :   |                   |             |                        |                    |  |      |
| 11   | Manufacturer :   |                   |             |                        |                    |  |      |
| 12   | Model :  |                   |             |                        |                    |  |      |
| 13   |  |                   |             |                        |                    |  |      |
| 14   | Note: Information to be completed by equipment vendor.                             |                   |             |                        |                    |  |      |
| 15   |  |                   |             |                        |                    |  |      |
| 16   | <b>Total weight (kg)(1,2)</b>  |                   |             |                        |                    |  |      |
| 17   | Fabrication  | Erection          | Operation   | Hydrostatic Test       | Removable internal | Ladder & Platform                          |      |
| 18   |  |                   |             |                        |                    |  |      |
| 19   |  |                   |             |                        |                    |  |      |
| 20   |  |                   |             |                        |                    |  |      |
| 21   |  |                   |             |                        |                    |  |      |
| 22   |  |                   |             |                        |                    |  |      |
| 23   | <b>WEIGHT AND C OF G DATA REQUIRED *</b>   |                   |             |                        |                    |  |      |
| 24   | CONDITION  | WEIGHT ACCURACY % | WEIGHT (kg) | CENTER OF GRAVITY (mm) |                    |  |      |
| 25   |  |                   |             | X                      | Y                  | Z  |      |
| 26   | Dry  |                   |             |                        |                    |  |      |
| 27   |  |                   |             |                        |                    |  |      |
| 28   |  |                   |             |                        |                    |  |      |
| 29   |  |                   |             |                        |                    |  |      |
| 30   | <b>SKETCH</b>  |                   |             |                        |                    |  |      |
| 31   | <p>Page 1</p>  |                   |             |                        |                    |  |      |
| 32   |  |                   |             |                        |                    |  |      |
| 33   |  |                   |             |                        |                    |  |      |
| 34   |  |                   |             |                        |                    |  |      |
| 35   |  |                   |             |                        |                    |  |      |
| 36   |  |                   |             |                        |                    |  |      |
| 37   |  |                   |             |                        |                    |  |      |
| 38   |  |                   |             |                        |                    |  |      |
| 39   |  |                   |             |                        |                    |  |      |
| 40   |  |                   |             |                        |                    |  |      |
| 41   |  |                   |             |                        |                    |  |      |
| 42   |  |                   |             |                        |                    |  |      |
| 43   |  |                   |             |                        |                    |  |      |
| 44   |  |                   |             |                        |                    |  |      |
| 45   |  |                   |             |                        |                    |  |      |
| 46   |  |                   |             |                        |                    |  |      |
| 47   |  |                   |             |                        |                    |  |      |
| 48   |  |                   |             |                        |                    |  |      |
| 49   |  |                   |             |                        |                    |  |      |
| 50   |  |                   |             |                        |                    |  |      |
| 51   |  |                   |             |                        |                    |  |      |
| 52   | <b>NOTES</b>   |                   |             |                        |                    |  |      |
| 53   | 1) All lifting points to be load tested and certified.                             |                   |             |                        |                    |  |      |
| 54   | 2) Any spreader beam to be load tested and certified.                              |                   |             |                        |                    |  |      |
| 55   | 3) Lifting / rigging plan for skid mounted equipment to be provided by the Vendor. |                   |             |                        |                    |  |      |
| 56   |  |                   |             |                        |                    |  |      |
| 57   |  |                   |             |                        |                    |  |      |
| 58   |  |                   |             |                        |                    |  |      |
| 59   |  |                   |             |                        |                    |  |      |
| 60   |  |                   |             |                        |                    |  |      |
| 61   |  |                   |             |                        |                    |  |      |
| 62   |  |                   |             |                        |                    |  |      |
| 63   |  |                   |             |                        |                    |  |      |