

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک						 شرکت توسعه پتروایران 		
	MECHANICAL DATA SHEETS FOR DIESEL OIL DRUM								
شماره پیمان: ۰۵۳ - ۰۲۳ - ۹۱۸۴	پروژه BK	بسته کاری GCS	صادر کننده PEDCO	تسهیلات 120	رشته ME	نوع مدرک DT	سریال 0007	نسخه D00	شماره صفحه: ۱ از ۸

طرح نگهداشت و افزایش تولید ۲۷ مخزن

MECHANICAL DATA SHEETS FOR DIESEL OIL DRUM (V-2206)



نگهداشت و افزایش تولید میدان نفتی بینک

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:



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

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض								
	احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک								
	MECHANICAL DATA SHEETS FOR DIESEL OIL DRUM								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	پروژه BK	بسته کاری GCS	صادر کننده PEDCO	تسهیلات 120	رشته ME	نوع مدرک DT	سریال 0007	نسخه D00	شماره صفحه: ۲ از ۸



REVISION RECORD SHEET

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 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض								
	احداث ردیف تو اکم گاز در ایستگاه جمع آوری بینک MECHANICAL DATA SHEETS FOR DIESEL OIL DRUM								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	پروژه BK	بسته کاری GCS	صادر کننده PEDCO	تسهیلات 120	رشته ME	نوع مدرک DT	سریال 0007	نسخه D00	شماره صفحه: ۸ از ۳

General Notes

- The Asterisk * denotes information and/or confirmation required from VENDOR. All thicknesses given on this document shall be considered as a minimum required thickness. vendor shall checked and calculated actual thicknesses under mechanical guarantee accordingly.
- Shall be advised by MFR.
- VENDOR shall include for the services of a independent verification body for mechanical design, stage inspection, testing and stamping of the equipment (if possible).
- Painting and coating (internal & external) shall be as per project 'Specification for Painting & Lining', Doc. No. BK-GNRL-PEDCO-000-PI-SP-0006& BK-GNRL-PEDCO-000-PI-SP-0007.
- Flanges shall comply with ASME B16.5 & B16.47 Series A. 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, LWN: Long Welding Neck)
- 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".
- 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.
- All external bolts and nuts shall be hot dip galvanized. Internal bolts and nuts shall be stainless steel.
- Loads at support base, Shall be calculated and determined by vendor.
- Access Ladder & Platform to be considered .
- Stand pipe connections on equipment shall be at least 3", 150# and for instruments installation on the stand pipe at least 2", 300# flanges shall be considered (on the related piping system)
- All material, corrosion allowance and their suitability for the process fluid at design pressure and temperature to be confirmed by vendor.
- The vendor shall be responsible for mechanical and process performance of the equipment based on mentioned condition in data sheets.
- All nozzle locations and orientations will be finalized later. (by piping department)
- Instrumentation items are excluded from vendor's scope of supply.
- Any changes in material of construction, location & orientation of the nozzles shall be confirmed by client.
- All materials shall be new and unused.
- Fabrication tolerances for vessel shall be in accordance with requirement of ASME code.
- Location and number of lifting lugs on vessels shall be specified on VENDOR drawing.
- All items shall be clearly match marked against vessel drawings to facilitate erection.
- For instrument's connections please refer to project "Specification For Instrumentation", Doc. No. BK-GNRL-PEDCO-000-IN-SP-0001
- Vendor shall supply details of all welding connections and give general specification of used materials.
- 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).
- Equipment packaging, preparation for shipment and delivery shall be in accordance with the project Minimum Requirements for Marking, Packing, Shipment & Storage' Document No. IPS-G-GN-210.
- Specified accessories and attachments shall be supplied by vendor.
- Gasket shall be spiral wound type, graphite filled with inner ring and outer ring S.S.316
- Fire proofing requirement will be specified as per result of fire proofing zone layout.
- Insulation shall be as per project 'Specification for Insulation', Document No. BK-GNRL-PEDCO-000-PI-SP-0019.
- Two M12 earthing bosses shall be provided on vessel support. Material of Earthing Bosses shall be S.S. 316
- For standard detail of Earth lug execution refer to the Project "Standard Detail Drawing For Pressure Vessels and Heat Exchangers' Doc. No. BK-GNRL-PEDCO-000-ME-DW-0001".
- Elliptical heads shall be Ultrasonic Tested for lamination after forming.
- The projection of equipment's nozzles should be considered as per 'Standard Detail Drawing For Pressure Vessels and Heat Exchangers', Doc. No. BK-GNRL-PEDCO-000-ME-DW-0001".

 NISOC	<p style="text-align: center;">تکهداشت و افزایش تولید میدان نفتی بینک سطح الارض</p> <p style="text-align: center;">احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p> <p style="text-align: center;">MECHANICAL DATA SHEETS FOR DIESEL OIL DRUM</p>								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	پروژه BK	بسته کاری GCS	صادر کننده PEDCO	تسهیلات 120	رشته ME	نوع مدرک DT	سریال 0007	نسخه D00	شماره صفحه: ۴ از ۸

General Notes (Cont'd)	
<p>33. The elevation of equipment's nozzels should be specified as follows :</p> <p>I. For vertical vessels : from bottom T.L.</p> <p>II. For horizontal vessels : from Left T.L.</p> <p>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.</p> <p>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.</p> <p>36. VENDOR shall supply following items as spare parts (for all blanked off nozzles and manways.</p> <ul style="list-style-type: none"> - Commissioning Spare Parts: 100% gasket and 10% bolting (Min 2 bolts and 4 nuts of each size) - Two Years Spare Parts: 200% gasket and 10% bolting (Min 2 bolts and 4 nuts of each size) <p>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.</p> <p>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.</p> <p>39. VENDOR is to maximize shop fabrication based on the following transportation limits:</p> <ul style="list-style-type: none"> - 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 <p>For items with dimensions and weights greater than the road capacity specified above, VENDOR may be required to split the package into several components.</p> <p>40. All external attachments directly welded to the pressure part shall be the same material as vessel grade.</p> <p>41. All dimensions are in "mm" unless otherwise specified.</p> <p>42. Nozzle loads shall be in accordance with "Specification for pressure vessel, Doc. No.: BK-GNRAL-PEDCO-000-ME-SP-0001".</p> <p>43. All nozzle must be vertical or horizontal and not perpendicular or parallel to vessel center line.</p>	



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

MECHANICAL DATA SHEETS FOR DIESEL OIL DRUM



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• 03 - • 73 - 9184

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سته کاری

صادر کنندہ

تسهيلات

روشته

هو علم مدرک

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شماره صفحه: ۶ از ۸

Mechanical Data Sheets For Diesel Oil Drum (V-2206) / sheet 2 of 4

ACCESSORIES . NOZZLES LIST & LOADS @ BASE

Accessories & Attachments (Note 25, 40)

Supporting Saddles	YES	Name Plate Bracket	YES
Access Ladder & Platform	YES	Name Plate	YES
Insulation Support		Earthing Lug (Note 29, 30)	YES
Insulation		Tailing Lug	N/A
Insulation Cover		Cathodic Protection (Sacrificial Anc	-
Fireproofing Support	YES	Anchor Bolts (kg/kmol)	-
Lifting Lugs	YES	Liquid Density (kg/m3)	860
Internal/ External Clips	YES	Skid	N/A
Tamplate		Support Clips	
Boot	NO	Vortex Breaker	YES
Davit for Manhole	YES	HLL / LLL	2000 / 1000
Internal Lining (By Painting)		Heating Coli (m ³)	28

Nozzles List (Note 1, 5, 6, 14,33, 34)

[illegible]

Wind and Seismic Loads at Base * *Note(9)*

[illegible]



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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 DIESEL OIL DRUM



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پروژه

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بسته کاری

GCS

صادرکننده

PEDCO

تسهیلات

120

رشته

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نوع مدرک

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سریال

0007

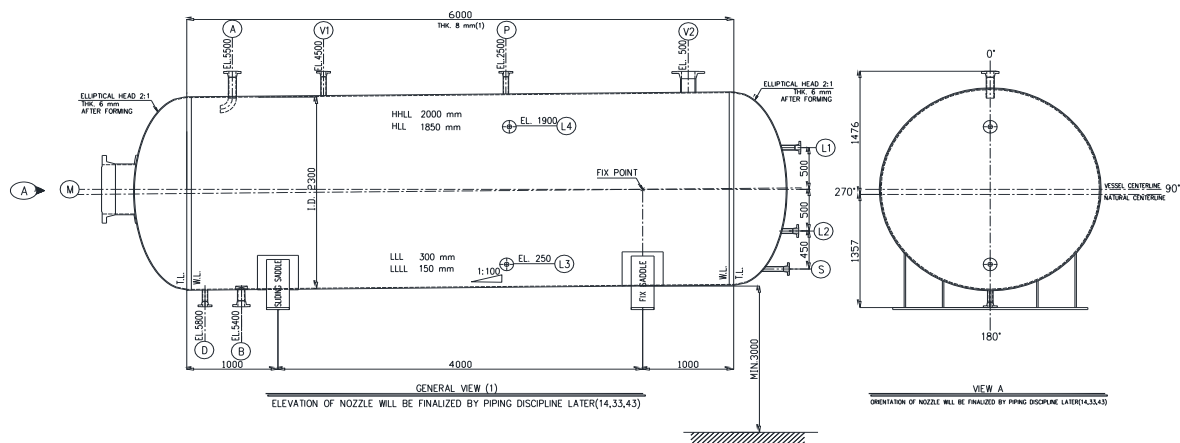
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Mechanical Data Sheets For Diesel Oil Drum (V-2206) / sheet 3 of 4

Sketch





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تکده‌داشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

MECHANICAL DATA SHEETS FOR DIESEL OIL DRUM



شماره پیمان:

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Mechanical Data Sheets For Diesel Oil Drum (V-2206) / sheet 4 of 4

Rev.	WEIGHT						Rev.
1	WEIGHT CONTROL DATA SHEET SI UNIT *					1/1	
2							
3							
4							
5							
6	Service : Diesel Oil Drum			Location : Bushehr			
7	Type :			Quotation No.			
8	No. trains : -			Serial No.			
9	No. stages : -						
10	Supplier :						
11	Manufacturer :						
12	Model :						
13	Note: Information to be completed by equipment vendor.						
14							
15							
16	Total weight (kg) *						
17	Fabrication	Erection	Operation	Hydrostatic Test	Removable internal	Ladder & Platform	
18							
19							
20							
21							
22							
23	WEIGHT AND C OF G DATA REQUIRED *						
24	CONDITION	WEIGHT ACCURACY %	WEIGHT (kg)	CENTER OF GRAVITY (mm)			
25				X	Y	Z	
26	Dry						
27							
28							
29							
30	SKETCH						
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52	NOTES						
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.						
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