

 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:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	PEDCO	120	ME	DT	0007	D01
شماره صفحه: ۱ از ۱۱								

طرح نگهداشت و افزایش تولید ۲۷ مخزن

MECHANICAL DATA SHEETS FOR DIESEL OIL DRUM

نگهداشت و افزایش تولید میدان نفتی بینک

D01	OCT.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-708838

- 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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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

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه
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REVISION RECORD SHEET

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MECHANICAL DATA SHEETS FOR DIESEL OIL DRUM



شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

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D01	0007	DT	ME	120	PEDCO	GCS	BK

شماره صفحه: ۱۱ از ۱۳

General Notes

D01

- The Asterisk * denotes information and/or confirmation required from VENDOR. vendor shall be fully responsible for the complete mechanical design and supply of the vessel. The vessel shall be supplied in accordance with BS EN 12285-2.
- Anchor bolts shall be calculated and sized by vendor.
- VENDOR shall include for the services of a independent verification body for mechanical design, stage inspection, testing and stamping of the equipment (if possible).
- Specified accessories and attachments shall be supplied by vendor.
- Painting and coating (internal & external) shall be as per project 'Specification for Painting', Doc. No. BK-GNRAL-PEDCO-000-PI-SP-0006 and 'Specification for Liningg', Doc. No. BK-GNRAL-PEDCO-000-PI-SP-0007.
- Flanges shall comply with ANSI B16.5. Nozzle bolt holes shall straddle the natural centerlines. VENDOR to confirm maximum allowable nozzle loads and moments. RF: Raised Face, WN: Welding Neck, SO: Slip On
- Equipment packaging, preparation for shipment and delivery shall be in accordance with the project minimum requirements for "Packing, Marking, Transportation Procedure (Doc. No. BK-GNRAL-PEDCO-000-QC-PR-0045)."
- 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.
- Loads at support base, Shall be calculated and determined by vendor.
- 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". (May be changed in future)
Projection of Horizontal & Vertical nozzles is from tangent line & center line respectively.
- All external bolts and nuts shall be hot dip galvanized. Internal bolts and nuts shall be stainless steel.
- All dimensions are in "mm" unless otherwise specified.
- The vendor shall be responsible for mechanical strength of the equipment based on mentioned condition in data sheets.
- Dished ends shall be in accordance with BS EN 12285-2.
- Hydrotest shall be carried out according to BS12285-2.
- All nozzle must be vertical or horizontal and not perpendicular or parallel to vessel center line
- 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". Min two number shall be considered.
- Vendor shall supply details of all welding connections and give general specification of used materials.
- All materials shall be new and unused.
- 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. Hange faces shall be protected by wooden or plastic dummy flanges.
- Fabrication tolerances for vessel shall be in accordance with requirement of BS EN 12285-2 code.
- All items shall be clearly match marked against vessel drawings to facilitate erection.
- The elevation of equipment's nozzels should be specified as follows :
I. For vertical vessels : from bottom T.L.
II. For horizontal vessels : from Left T.L.
- Gasket shall be spiral wound type, graphite filled with inner and outer rings S.S.316.
- The Vendor shall be fully responsible for the complete mechanical design, preparing calculation book and supply of the vessel.



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MECHANICAL DATA SHEETS FOR DIESEL OIL DRUM



شماره پیمان:

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D01

Mechanical Data Sheets For Diesel Oil Drum (V-2206) / sheet 1 of 4

Rev	DATA SHEET				Rev
D01	1	Description	: Diesel Oil Drum		D01
	2	Tag No.	: V-2206	Quantity : 1 Set	D01
	3	Type	:		
	4	Process Design Data			D01
D01	5	Contents	Diesel	Corrosive / Erosive	-
	6	Operating Temp. (°C)	AMB.	Liquid Flow (kg/h)	-
	7	Operating Press. (barg)	ATM	Vap. Molec. Weight (kg/kmol)	N/A
	8	Gas Flow (kg/h)	N/A	Liquid Sp. Gravity	
	9	Liquid Density (kg/m3)	860	Service:	N/A
	10	Mechanical Design Data (Note 1)			D01
D01	11	Design Temp. (°C)	85	Vessel Orientation	Horizontal
	12	Design Press. (barg)	Full of Water+ATM	HLL / LLL (mm)	1750 / 150
	13	Test Press. (barg)	0.75 Liquid or 0.3 Air (Note 15)	Nominal Liquid capacity (m³)	3.7
	14	Internal Vacuum (barg)	-	In. Dia. Of Boots (mm)	N/A
D01	15	In. Dia. of Shell (mm)	2000	Boot Length (mm)	N/A
D01	16	Tan/Tan Dim. (mm)	4750	Boot Head Type	N/A
D01	17	Vessel Head Type	Per Code & Specification (Note 14)	Corr. Allowance (mm)	1.6
D01	18	Shell Wall Thk. (mm)	6*	Joint Efficiency	0.7
D01	19	Head Wall Thk. (mm)	6*	Ambient Temp. (°C)	-
D01	20	Seismic Design	Site Class, Code: ASCE 7-10	MDMT (°C)	5
D01	21	Wind Design	Speed: 120 Km/hr (Max.), Code: ASCE 7-10	Insulation Required	No
	22	Materials			D01
D01	23	Code	ASTM	Nozzle Necks :	
D01	24	Shell	A 285 Gr. C	Pipes	A 106 Gr. B
D01	25	Heads	A 285 Gr. C	Plates	A 285 Gr. C
D01	26	Lining	P8	Forgings	A 105
D01	27	Saddles	A 285 Gr. C	Flanges	A 105
D01	28	Platform Grating	Hot Dip Galvanized C.S.	Fittings	A 234 Gr. WPB
D01	29	Gaskets	Note 26	External Bolts	A 193 Gr. B7 (Note 11)
D01	30	Lifting Lugs	A 285 Gr. C	External Nuts	A 194 Gr. 2H (Note 11)
D01	31	Reinforcing Pads	A 285 Gr. C	Internal Bolts / Nuts	S.S.
D01	32	Ladder & Platform	A 36	Name Plate	S.S. 316
	33	REFERENCE STANDARDS & DOCUMENTS			
	34	Mechanical Design Code	BS EN 12285-2		
	35	Process Basis of Design	BK-GNRL-PEDCO-000-PR-DB-0001		
	36	Piping & Instrument Diagram (P&ID)	BK-GCS-PEDCO-120-PR-PI-0023		
	37	Specification for Painting	BK-GNRL-PEDCO-000-PI-SP-0006		
	38	Specification for Insulation	BK-GNRL-PEDCO-000-PI-SP-0019		
	39	Fabrication and Inspection Requirements			
	40	Inspection Authority	TPI & Client		
	41	Material Certification	In Accordance with BS EN 10204:2004, Type 3.1		
	42	Hydro Test Medium	Water	Hydro Test Procedure	Yes; Per BS EN 12285-2 Standard
	43	MT	Yes; Per Code & Spec. Requir.	PT	Yes; Per Code & Spec. Requirements
	44	MT Report	Yes; Per Code & Spec. Requir.	PT Report	Yes; Per Code & Spec. Requirements
	45	Fabrication Quality Control Plan (With Offer)			Yes
	46	Welding Procedure Review / Approval			Yes
	47	Surface Preparation & Coating	Per Specification for Painting with Doc. No. "BK-GNRL-PEDCO-PI-SP-0006"		
	48		Per Specification for Lining with Doc. No. "BK-GNRL-PEDCO-PI-SP-0007"		
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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

MECHANICAL DATA SHEETS FOR DIESEL OIL DRUM



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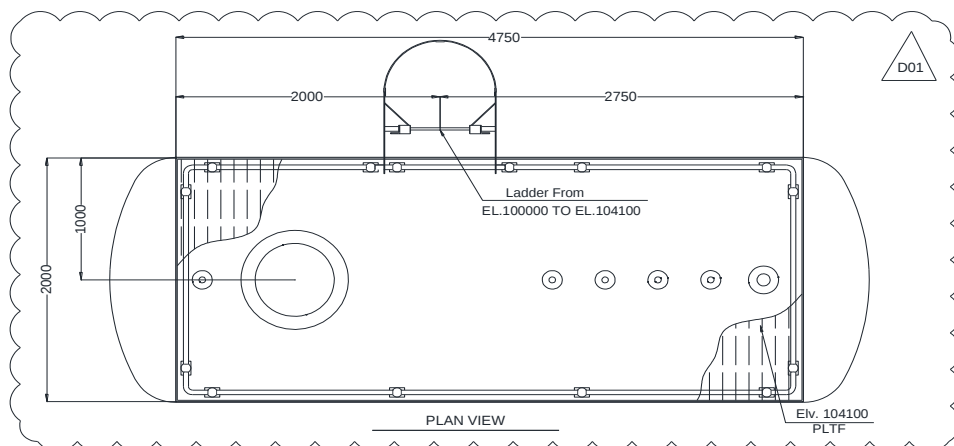
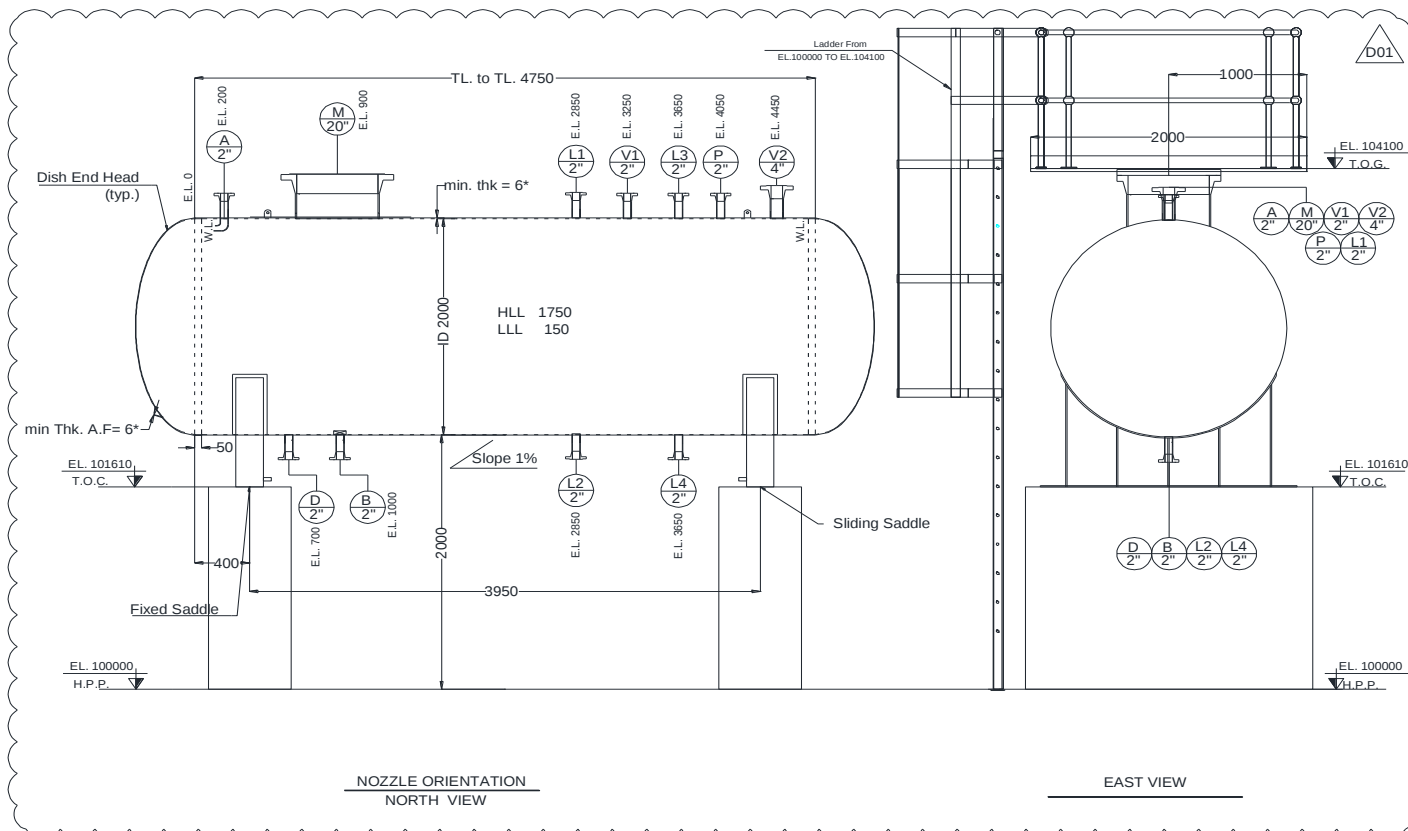
نسخه

D01

شماره صفحه: ۶ از ۷

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

Sketch





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D01

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

Rev.	WEIGHT						Rev.
D01	WEIGHT CONTROL DATA SHEET SI UNIT * D01 1/1						D01
6	Service : Diesel Oil Drum			Location : Bushehr (Binak Oilfield)			
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.						
16	Total weight (kg) *						
17	Fabrication	Erection	Operation	Hydrostatic Test	Removable internal	Ladder & Platform	
18							
19							
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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						
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46	UNDERSIDE OF BASE						
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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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