

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک						 شرکت توسعه و پتروایران 		
	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 D03	شماره صفحه: ۱ از ۷

طرح نگهداشت و افزایش تولید ۲۷ مخزن

MECHANICAL DATA SHEETS FOR DIESEL OIL DRUM

نگهداشت و افزایش تولید میدان نفتی بینک

D03	SEP.2024	IFA	V.Amjadi	M.Fakharian	M. Sadeghian	
D02	OCT.2023	IFA	H.Ghadyani	M.Fakharian	S.Faramarzpour	
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: 1	CLIENT Doc. Number: F0Z-708838
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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

پروژه

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بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

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REVISION RECORD SHEET

Page	D00	D01	D02	D03	D04
1	X	X	X	X	
2	X	X	X	X	
3	X	X	X	X	
4	X	X	X	X	
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	احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک							
	MECHANICAL DATA SHEETS FOR DIESEL OIL DRUM							
شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
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شماره صفحه: ۳ از ۷								

General Notes		D03
Rev		
D03	1. 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. 2. Anchor bolts shall be calculated and sized by vendor. 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). 4. Specified accessories and attachments shall be supplied by vendor. 5. 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. 6. 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 7. 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)." 8. 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. 9. Loads at support base, Shall be calculated and determined by vendor. 10. 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. 11. All external bolts and nuts shall be hot dip galvanized. Internal bolts and nuts shall be stainless steel. 12. All dimensions are in "mm" unless otherwise specified. 13. The vendor shall be responsible for mechanical strength of the equipment based on mentioned condition in data sheets.	
D03	14. Deleted.	
D03	15. Deleted.	
	16. All nozzle must be vertical or horizontal and not perpendicular or parallel to vessel center line 17. 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. 18. Vendor shall supply details of all welding connections and give general specification of used materials. 19. All materials shall be new and unused. 20. 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 suarfaces. Hange faces shall be protected by wooden or plastic dummy flanges.	
D03	21. Fabrication tolerances for vessel shall be in accordance with requirement of ASME code.	
	22. All items shall be clearly match marked against vessel drawings to facilitate erection. 23. 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. 24. Gasket shall be spiral wound type, graphite filled with inner and outer rings S.S.316. 25. The Vendor shall be fully responsible for the complete mechanical design, preparing calculation book and supply of the vessel. 26. VENDOR to advise (VTA) internal for inlet nozzle.	



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MECHANICAL DATA SHEETS FOR DIESEL OIL DRUM



شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه
D03	0007	DT	ME	120	PEDCO	GCS	BK

شماره صفحه: ۴ از ۷

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

Rev	DATA SHEET				Rev
	1	Description	:	Diesel Oil Drum	
	2	Tag No.	:	V-2206	
	3	Type	:	Quantity : 1 Set	
	4	Process Design Data			
	5	Contents		Diesel	
	6	Operating Temp. (°C)		AMB.	
	7	Operating Press. (barg)		ATM	
	8	Gas Flow (kg/h)		N/A	
	9	Liquid Density (kg/m3)		860	
	10	Mechanical Design Data (Note 1)			
	11	Design Temp. (°C)		85	
	12	Design Press. (barg)		3.5	
	13	Test Press. (barg)		0.75 Liquid or 0.3 Air (Note 15)	
	14	Internal Vacuum (barg)		-	
	15	In. Dia. of Shell (mm)		2300	
	16	Tan/Tan Dim. (mm)		6000	
	17	Vessel Head Type		2:1 Elliptical	
	18	Shell Wall Thk. (mm)		*	
	19	Head Wall Thk. (mm)		(After Forming)*	
	20	Seismic Design		Site Class: D, Code: ASCE 7-10 Fa=1, Fv=1.33, S1=0.46, Ss=1.125, I=1.25	
	21	Wind Design		Speed: 232 Km/hr (Max.), Code: ASCE 7-10	
	22	Materials			
	23	Code		IPS-G-ME-150	
	24	Shell		A 283 Gr. C	
	25	Heads		A 283 Gr. C	
	26	Lining		P8	
	27	Saddles		A 283 Gr. C	
	28	Platform Grating		Hot Dip Galvanized C.S.	
	29	Gaskets		Note 26	
	30	Lifting Lugs		A 283 Gr. C	
	31	Reinforcing Pads		A 283 Gr. C	
	32	Ladder & Platform		A 36	
	33	REFERENCE STANDARDS & DOCUMENTS			
	35	Mechanical Design Code		ASME Sec VIII Div 1, IPS-G-ME-150	
	36	Process Basis of Design		BK-GNRL-PEDCO-000-PR-DB-0001	
	37	Piping & Instrument Diagram (P&ID)		BK-GCS-PEDCO-120-PR-PI-0023	
	38	Specification for Painting		BK-GNRL-PEDCO-000-PI-SP-0006	
	39	Specification for Insulation		BK-GNRL-PEDCO-000-PI-SP-0019	
	40	Fabrication and Inspection Requirements			
	42	Inspection Authority		TPI & Client	
	43	Material Certification		In Accordance with BS EN 10204:2004, Type 3.1	
	44	Hydro Test Medium		Water	
	45	MT		Yes; Per Code & Spec. Requir.	
	46	MT Report		Yes; Per Code & Spec. Requir.	
	47	Fabrication Quality Control Plan (With Offer)		Yes	
	48	Welding Procedure Review / Approval		Yes	
	49	Surface Preparation & Coating		Per Specification for Painting with Doc. No. "BK-GNRL-PEDCO-PI-SP-0006"	
	50			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								
شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۵ از ۷
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Mechanical Data Sheets For Diesel Oil Drum (V-2206) / sheet 2 of 4

Rev	ACCESSORIES , NOZZLES LIST & LOADS @ BASE													Rev
1	Accessories & Attachments (Note 4)													
2	Supporting Saddles		YES	Name Plate Bracket					YES					
3	Access Ladder & Platform		YES	Name Plate					YES					
4	Insulation Support		NO	Earthing Lug (Note 17)					YES					
5	Insulation		NO	Tailing Lug					N/A					
6	Insulation Cover		NO	Cathodic Protection (Sacrificial Anodes)					NO					
7	Fireproofing Support		YES	Anchor Bolts (Note 2)					NO					
8	Lifting Lugs		YES	Instrumentations					NO					
9	Internal/ External Clips		YES	Skid					N/A					
10	Template		NO	Support Clips					YES					
11	Boot		NO	Vortex Breaker					YES					
12	Davit for Manhole		YES	Rung & Grip					NO					
13	Internal Lining (By Painting)		YES	Heating Coil					NO					
14														
15														
16														
17														
18	Nozzles List (Note 1, 6, 10)*													
19	Mark	Qty.	Description	Pipe			Flange			Proj. (mm)	Reinforcement		Remarks	
20				Size	Thk.*	Sch.*	Type	Rate.	Face	(Note 10)	Thk.	O.D.		
21	A	1	Inlet	2"			WN	#150	RF	See DWG*			(Note 26)	
22	B	1	Liquid Outlet	2"			WN	#150	RF	See DWG*				
23	V1	1	Vent	2"			WN	#150	RF	See DWG*			With flame arrestor	
24	M	1	Manhole	20"			WN	#150	RF	See DWG*	*	*		
25	Deleted													
26	D	1	Drain	2"			WN	#150	RF	See DWG*				
27	Deleted													
28	L1,2	2	Stand Pipe	2"			WN	#150	RF	*				
29	L3,4	2	Level Transmitter	2"			WN	#300	RF	See DWG*				
30	V2	1	Ventilation	4"			WN	#150	RF	See DWG*	*	*		
31														
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44	Wind and Seismic Loads at Base * Note(9)													
45	 Load Type	Empty Condition			Operating Condition			Testing Condition						
46		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)				
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52	WIND													
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MECHANICAL DATA SHEETS FOR DIESEL OIL DRUM



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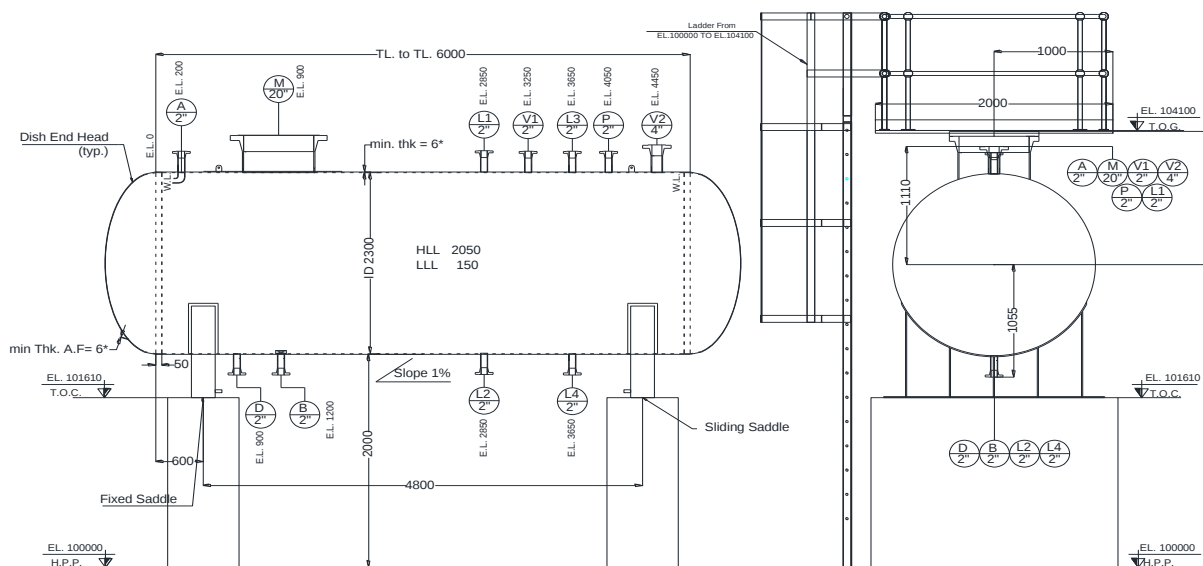
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Mechanical Data Sheets For Diesel Oil Drum (V-2206) / sheet 3 of 4

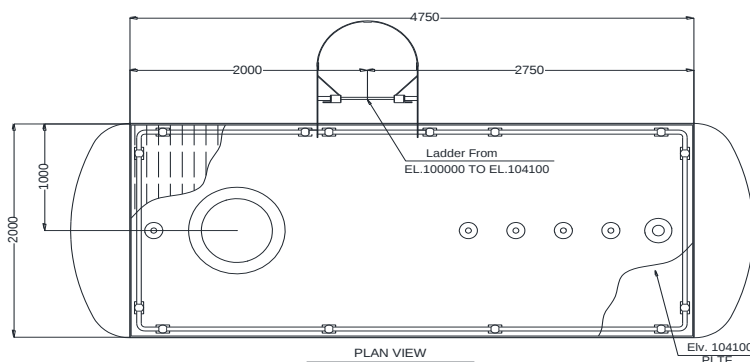
D03

Sketch



NOZZLE ORIENTATION
NORTH VIEW

EAST VIEW





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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 (Binak Oilfield)		
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	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							
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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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