

 <b>NISOC</b>	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک						 		
	MECHANICAL DATA SHEETS FOR CLOSE DRAIN DRUM								
شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱ از ۸
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	PEDCO	120	ME	DT	0010	D01	

## طرح نگهداشت و افزایش تولید ۲۷ مخزن

### MECHANICAL DATA SHEETS FOR CLOSE DRAIN DRUM

#### نگهداشت و افزایش تولید میدان نفتی بینک

D01	SEP.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-708841

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 CLOSE DRAIN DRUM



شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴



نسخه	سریال	نوع مدرک	رشته	تجهیزات	صادرکننده	بسته کاری	پروژه
D01	0010	DT	ME	120	PEDCO	GCS	BK

شماره صفحه: ۲ از ۸

# REVISION RECORD SHEET

Page	D00	D01	D02	D03	D04
1	X	X			
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 <b>NISOC</b>	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض								
	احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک MECHANICAL DATA SHEETS FOR CLOSE DRAIN DRUM								
شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۸ از ۳
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	PEDCO	120	ME	DT	0010	D01	

Rev	General Notes	
	D01	
	<p>1. The Asterisk * denotes information and/or confirmation required from VENDOR. The Vendor shall be fully responsible for the complete mechanical design and supply of the vessel. The vessel shall be supplied in accordance with project 'Specification for Pressure Vessels', Doc. No. BK-GNRL-PEDCO-000-ME-SP-0001.</p> <p>2. Nozzles and flanges shall be suitably supported and reinforced based on nozzle loads provided in project Specification for Pressure Vessels, Document No. BK-GNRL-PEDCO-000-ME-SP-0001.</p> <p>3. VENDOR shall include for the services of an independent verification body for mechanical design, stage inspection, testing and stamping of the equipment (if possible).</p>	
D01	<p>4. Access Ladder &amp; Platform to be considered .</p>	
	<p>5. Painting and coating (internal &amp; external) shall be as per project 'Specification for Painting', Doc. No. BK-GNRL-PEDCO-000-PI-SP-0006 and Specification for Lining (Internal Protection of Equipment by painting), Doc. No. BK-GNRL-PEDCO-000-PI-SP-0007.</p>	
D01	<p>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</p>	
	<p>7. 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).</p> <p>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. Davits shall be proof load tested on the vessels to 1.5 x Safe Working Load (SWL) and shall be marked accordingly.</p> <p>9. Loads at support base, Shall be calculated and determined by vendor.</p>	
D01	<p>10. Location and number of lifting lugs on vessels shall be specified on VENDOR drawing.</p>	
	<p>11. All external bolts and nuts shall be hot dip galvanized. Internal bolts and nuts shall be stainless steel.</p> <p>12. All material, corrosion allowance and their suitability for the process fluid at design pressure and temperature to be confirmed by vendor.</p>	
D01	<p>13. The vendor shall be responsible for mechanical strength of the equipment based on mentioned condition in data sheets.</p>	
D01	<p>14. All nozzle locations and orientations will be finalized later.</p>	
	<p>15. Instrumentation items are excluded from vendor's scope of supply.</p> <p>16. Any changes in material of construction, location &amp; orientation of the nozzles shall be confirmed by client.</p> <p>17. Structural surfaces of stainless steel internals shall be pickled &amp; passivated.</p>	
D01	<p>18. All dimensions shown are in mm unless otherwise indicated. All nozzle sizes are in inch.</p>	
	<p>19. All materials shall be new and unused.</p> <p>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 surfaces. Flange faces shall be protected by wooden or plastic dummy flanges.</p> <p>21. Fabrication tolerances for vessel shall be in accordance with requirement of ASME code.</p> <p>22. All items shall be clearly match marked against vessel drawings to facilitate erection.</p> <p>23. 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>24. Vendor shall supply details of all welding connections and give general specification of used materials.</p> <p>25. Specified accessories and attachments shall be supplied by vendor.</p> <p>26. Gasket shall be spiral wound type, graphite filled with inner ring S.S.316 and outer ring C.S.</p>	
D01	<p>27. deleted</p>	
D01	<p>28. deleted</p>	
D01	<p>29. 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".</p>	



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نگهداشت و افزایش تولید میدان نفتی بینک  
سطح الارض

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MECHANICAL DATA SHEETS FOR CLOSE DRAIN DRUM



شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

پسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

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





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نسخه

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شماره صفحه: ۴ از ۸

### General Notes (Cont'd)

Rev	
	<p>30. 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".</p> <p>31. Elliptical heads shall be Ultrasonic Tested for lamination after forming.</p> <p>32. 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". Projection of Horizontal &amp; Vertical nozzles is from tangent line and centerline respectively.</p>
D01	<p>33. Deleted </p> <p>34. 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".</p>
D01	<p>35. Minimum requirement for pre-commissioning, commissioning, start up and two years operation spare parts shall be in accordance with document E&amp;C-QC-SP-1.</p> <p>36. Nozzle loads shall be in accordance with Specification for Pressure Vessels, Doc. No. BK-GNRL-PEDCO-ME-SP-0001.</p> <p>37. The material shall be in compliance with NACE MR0175/ISO15156 and Specification for Material Requirements in Sour Service, Doc.No. BK-GNRL-PEDCO-000-PI-SP-0008.</p> <p>38. 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. <math>Ceq. = C + Mn/6 + (Cr + Mo + V)/5 + (Cu + Ni)/15 &lt; 0.42 \%</math></p> <p>39. All carbon steel material shall be fully killed, fine grain treated and supplied in the normalized condition.</p> <p>40. All nozzles must be vertical or horizontal and not perpendicular or parallel to vessel center line. </p>
D01	<p>41. 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>
D01	<p>42. 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>
D01	<p>43. VENDOR is to maximize shop fabrication based on the following transportation limits:  <ul style="list-style-type: none"> <li>- Maximum weight: 96 tonnes</li> <li>- Maximum load per axle: 12 tonnes</li> <li>- Maximum length: 50.0 m</li> <li>- Maximum width: 5.0 m</li> <li>- Maximum height: 5.2 m</li> </ul> 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>
D01	<p>44. All external attachments directly welded to the pressure part shall be the same material as vessel grade. </p>



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نگهداشت و افزایش تولید میدان نفتی بینک  
سطح الارض

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MECHANICAL DATA SHEETS FOR CLOSE DRAIN DRUM



شماره پیمان:

۰۳ - ۰۷۳ - ۹۱۸۴

پروژه

بسته کاری

صادر کننده

تسهیلات

رشته

نوع مدرک

سریال

نسخه

شماره صفحه: ۵ از ۸

BK

GCS

PEDCO

120

ME



DT

0010

D01

Mech. Data Sheet For Close Drain Drum (V-2202) / sheet 1 of 4

Rev	DATA SHEET					Rev
	1	Description : <i>Close Drain Drum</i>				
	2	Tag No. : <i>V-2202</i>		Quantity : <i>1 Set</i>		
	3	Type : <i>Pressure Vessel</i>				
	4	Process Design Data				
	5	Contents	<i>Hydro-Carbon (HC, H2O)</i>	Corrosive / Erosive	<i>Yes</i>	
	6	Operating Temp. (°C)	<i>AMB</i>	Liquid Flow (kg/h)	-	
	7	Operating Press. (barg)	<i>0.5</i>	Vap. Molec. Weight (kg/kmol)	-	
	8	Gas Flow (kg/h)	-	Liquid Sp. Gravity	<i>0.49~1.0</i>	
	9	Liquid Viscosity (cP)	-	Lethal:	<i>No</i>	
	10	Mechanical Design Data <span style="border: 1px solid black; padding: 2px;">D01</span>				
	11	Design Temp. (°C)	<i>85</i>	Vessel Orientation	<i>Horizontal</i>	
D01	12	Design Press. (barg)	<i>7.5</i>	HHLL (mm)	<i>2300</i>	D01
	13	Test Press. (barg)	<i>Per Code &amp; Spec. Requirements</i>	Nor. Liquid Vol. (m³)	-	
D01	14	Internal Vacuum (barg)	<i>F.V.</i>	In. Dia. Of Boots (mm)	<i>N/A</i>	
D01	15	In. Dia. of Shell (mm)	<i>2600</i>	Boot Length (mm)	<i>N/A</i>	
D01	16	Tan/Tan Dim. (mm)	<i>7800</i>	Boot Head Type	<i>N.A</i>	
	17	Vessel Head Type	<i>2:1 Elliptical (Note 31)</i>	Corr. Allowance (mm)	<i>6</i>	
D01	18	Shell Wall Thk. (mm)	<i>*</i>	Joint Efficiency	<i>0.85 (Shell) / 1 (Head)</i>	
D01	19	Head Wall Thk. (mm)	<i>(After Forming) *</i>	Ambient Temp. (°C)	-	
D01	20	Seismic Design	<i>Site Class: D, Code: ASCE 7-10</i>	MDMT (°C)	<i>5</i>	
D01	21	Wind Design	<i>Speed: 120 Km/hr (Max.), Code: ASCE 7-10</i>	Insulation Required <span style="border: 1px solid black; padding: 2px;">D01</span>	-	
	22	Materials <span style="border: 1px solid black; padding: 2px;">D01</span>				
D01	23	Code	<i>ASME II / ASTM</i>	Internal Welded Supports	<i>S.S.</i>	
D01	24	Shell	<i>A 516 70N</i>	Nozzle Necks	<i>A 106 Gr.B</i>	D01
D01	25	Heads	<i>A 516 70N</i>	Pipes	<i>A 106 Gr.B</i>	D01
	26	Lining	<i>PI (Note 5)</i>	Plates	<i>A 516 70N</i>	D01
D01	27	Saddles	<i>A 283 Gr. C</i>	Forgings	<i>A 105N</i>	D01
D01	28	Wear Plate	<i>A 516 70N</i>	Flanges	<i>A 105N</i>	D01
D01	29	Stiffening Rings	<i>A 516 70N</i>	Fittings	<i>A 234 Gr. WPB</i>	D01
	30	Gaskets	<i>Note 26</i>	Welded Internals	<i>S.S.</i>	
D01	31	Lifting Lugs	<i>A 516 Gr.70 / A 283 Gr. C</i>	External Bolts / Nuts (Note 11)	<i>A 193 Gr. B7 / A 194 Gr. 2H</i>	D01
D01	32	Reinforcing Pads	<i>A 516 70N</i>	Internal Bolts / Nuts (Note 11)	<i>S.S.</i>	
	33	Ladder & Platform	<i>C.S.</i>	Insulation	-	
	34	Gratings	<i>Hot Dip Galvanized C.S.</i>	Name Plate	<i>S.S. 316</i>	
D01	35	External Welded Clips	<i>A 516 Gr.70N</i>			
	36	REFERENCE STANDARDS & DOCUMENTS				
	37	Mechanical Design Code	<i>ASME Sec VIII Div 1, IPS-G-ME-150</i>			
	38	Specification for Pressure Vessels	<i>BK-GNRAL-PEDCO-000-ME-SP-0001</i>			
	39	Process Basis of Design	<i>BK-GNRAL-PEDCO-000-PR-DB-0001</i>			
	40	Piping & Instrument Diagram (P&ID)	<i>BK-GCS-PEDCO-120-PR-PI-0017</i>			
	41	Specification for Painting	<i>BK-GNRAL-PEDCO-000-PI-SP-0006</i>			
	42	Specification for Insulation	<i>BK-GNRAL-PEDCO-000-PI-SP-0019</i>			
	43	Specification For Material Requirements in Sour service	<span style="border: 1px solid black; padding: 2px;">D01</span>	<i>BK-GNRAL-PEDCO-000-PI-SP-0008 (Note 37)</i>		
	44	Deleted				
	45	Fabrication and Inspection Requirements				
	46	Inspection Authority	<i>TPI &amp; Client</i>			
	47	Material Certification	<i>In Accordance with BS EN 10204:2004, Type 3.1, Minimum for Pressure Containing and Attachments</i>			
	48	Hydro Test Medium	<i>Water</i>	Hydro Test Procedure	<i>Yes;Per Code &amp; Spec. Requirements</i>	
	49	Post Weld Heat Treatment	<i>Yes</i>	PT	<i>100%</i>	
	50	MT	<i>100 % on Lifting Lug Fillet Welds</i>	UT	<i>Yes;Per Code &amp; Spec. Requirements</i>	
	51	RT	<i>100 % On T-Joints and Head Joints Butt-Welds,</i>			
	52		<i>Spot On Shell Longitudinal and Circumferential Joints Butt-Welds,</i>			
	53		<i>100 % On Nozzle Neck to Flange &amp; Fabricated Nozzle Neck Longitudinal Butt-Welds,</i>			
	54	RT Report	<i>Yes; Per Code &amp; Spec. Requir.</i>	PT Report	<i>Yes;Per Code &amp; Spec. Requirements</i>	
	55	MT Report	<i>Yes; Per Code &amp; Spec. Requir.</i>	UT Report	<i>Yes;Per Code &amp; Spec. Requirements</i>	
	56	Fabrication Quality Control Plan (With Offer)			<i>Yes</i>	
	57	Welding Procedure Review / Approval			<i>Yes</i>	
	58	Surface Preparation & Coating			<i>Per Specification for Painting with Doc. No. "BK-GNRAL-PEDCO-PI-SP-0006"</i>	
	59				<i>Specification for Lining Doc. No.BK-GNRAL-PEDCO-000-PI-SP-0007</i>	D01
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 <b>NISOC</b>	<b>نگهداشت و افزایش تولید میدان نفتی بینک</b> <b>سطح الارض</b>								
	<b>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</b> <b>MECHANICAL DATA SHEETS FOR CLOSE DRAIN DRUM</b>								
	شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	PEDCO	120	ME	DT	0010	D01	

Mech. Data Sheet For Close Drain Drum (V-2202) / sheet 2 of 4														
Rev.	ACCESSORIES , NOZZLES LIST & LOADS @ BASE												Rev.	
D01	Accessories & Attachments (Note 25)													D01
	Supporting Saddles			Yes	Name Plate Bracket			Yes						
	Access Ladder & Platform			Yes	Name Plate			Yes						
	Insulation Support			No	Earthing Lug (Note 30)			Yes						
	Insulation			No	Tailing Lug									
	Insulation Cover			No	Cathodic Protection (Sacrificial Anodes) (Note 33)									
	Fireproofing Support			Yes	Anchor Bolts			No						
	Lifting Lugs			Yes	Instrumentations									
	Internal/ External Clips			Yes	Skid									
	Tamplate			No	Support Clips									
	Boot			No	Vortex Breaker			Yes						
	Davit for Manhole			Yes	Rung & Grip			Yes						
	Internal Lining (By Painting)			Yes	Heating Coil			No						
	Nozzles List (Note 1)													
	Mark	Qty.	Description	Pipe			Flange			Proj. (mm)	Reinforcement		Remarks	
				Size	Thk.	Sch.	Type	Rate.	Face	(Note 32)	Thk.	O.D.		
D01	A	1	Inlet	6"	-		WN	#150	RF	See DWG				
D01	FL	1	Gas Outlet	6"	-		WN	#150	RF	See DWG				
D01	B	1	Liquid Outlet	2"	-		WN	#150	RF	See DWG				
D01	V1	1	Vent	3"	-		WN	#150	RF	See DWG				
D01	V2	1	Ventilation	8"	-		WN	#150	RF	See DWG				
D01	M 1,2	2	Manhole	24"	-		WN	#150	RF	See DWG				
D01	S	1	Utility Connection	2"	-		WN	#150	RF	See DWG				
D01	D 1,2	2	Drain	2"	-		WN	#150	RF	See DWG				
D01	L 1,2	2	Stand Pipe	3"	-		WN	#150	RF	See DWG				
D01	Deleted													
D01	P	1	Pressure gauge	2"	-		WN	#300	RF	See DWG				
D01	T	1	Temperature gauge	2"	-		WN	#300	RF	See DWG				
Wind and Seismic Loads at Base * Note(9)														
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	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														



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک  
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

MECHANICAL DATA SHEETS FOR CLOSE DRAIN DRUM



شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

GCS

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PEDCO

تسهیلات

120

رشته

ME

نوع مدرک

DT

سریال

0010

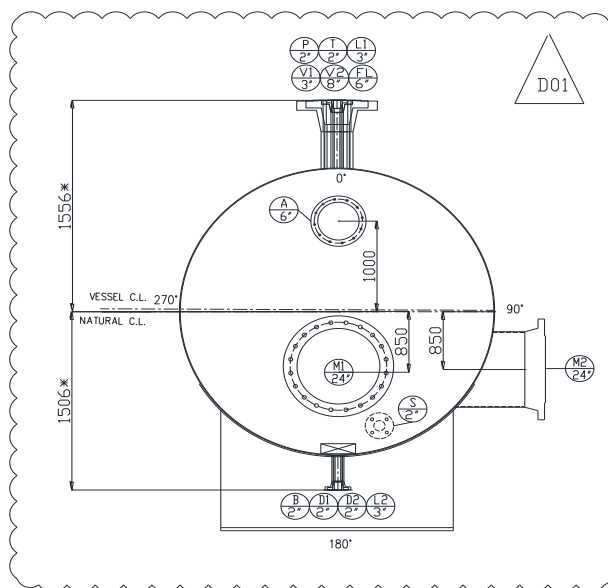
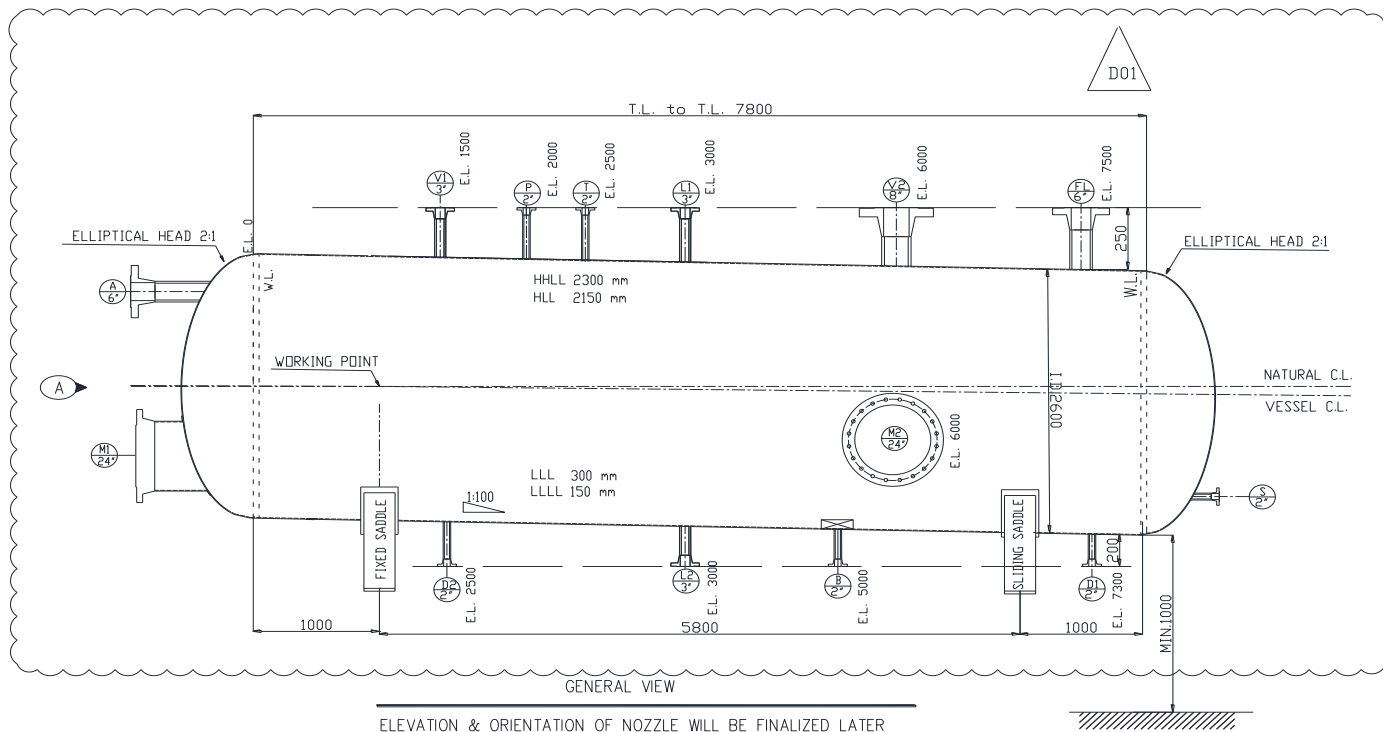
نسخه

D01

شماره صفحه: ۸ از ۷

Mechanical Data Sheets For Close Drain Drum (V-2202) / sheet 3 of 4

Sketch



All Dimensions are in mm.  
The close drain drum is located in pit.



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک  
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

MECHANICAL DATA SHEETS FOR CLOSE DRAIN DRUM



شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

ME

نوع مدرک

DT

سریال

0010

نسخه

D01

شماره صفحه: ۸ از ۸

Mech. Data Sheet For Close Drain Drum (V-2202) / sheet 4 of 4

Rev.	WEIGHT						Rev.
1	<b>WEIGHT CONTROL DATA SHEET</b> <b>SI UNIT *</b>						<b>1/1</b>
2							
3							
4							
5							
6	Service : <i>Close Drain Drum</i>			Location : <i>Bushehr (Binak Oilfield)</i>			D01
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) *</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							
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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							
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