طرح نگهداشت و افزایش تولید ۲۷ مخزن

DATA SHEETS FOR FUEL OIL STORAGE DRUM OF WELL PADS

نگهداشت و افزایش تولید میدان نفتی بینک

D02	JUN. 2022	IFA	H.Adineh	M.Fakharian	M.Mehrshad	
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Rev.	**Date**	**Purpose of Issue / Status**	**Prepared by:**	**Checked by:**	**Approved by:**	**CLIENT Approval**

Class: 2 **CLIENT Doc. Number: F0Z-707351**

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

شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۲ از ۱۲
۰۵۳ - ۰۷۳ - ۹۱۸٤	BK	SSGRL	PEDCO	110	ME	DT	0001	D02	

REVISION RECORD SHEET

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3	X	X	X		
4	X	X	X		
5	X	X	X		
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General Notes

Rev

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 BS EN 12285-2.
2. Anchor bolts shall be calculated and sized by vendor.
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).
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 Lining (Internal Protection of Equipment by painting), Doc. No. BK-GNRAL-PEDCO-000-PI-SP-0007.
6. Flanges shall comply with ANSI B16.5. Nozzle bolt holes shall stradle 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 shal 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 as per 'Standard Detail Drawing For Pressure Vessels and Heat Exchangers', Doc. No. BK-GNRAL-PEDCO-000-ME-DW-0001. (may be changed in furure).
    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 shown are in mm unless otherwise indicated. All nozzle sizes are in inch.
13. The vendor shall be responsible for mechanical strength of the equipment based on mentioned condition in data sheets.
14. Dished ends shall be in accordance with BS EN 12285-2.

D02 15. Suitable Magnetic level gauge (side mounted 2'' 150#) to be provided by vendor. D02

16. All nozzles 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.
21. Fabrication tolerances for vessel shall be in accordance with requirement of BS EN 12285-2 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.

D02 26. Hydrotest shall be carried out according to BS12285-2. D02

D02 27. Storage volume is for 36 hours, please refer to the project 'Consumption List' Doc. No. BK-SSGRL-PEDCO-110-PR-LI-0001". D02

Mech. Data Sheet for Diesel Oil Storage Drum of "BK-05" Well Pad (V-1901)

DATA SHEET

Rev								Rev
	1	Description :	*Fuel Oil Storage Drum*					
	2	Tag No. :	*V-1901*	Quantity :	*1*	*Set*		
	3	Type :	*Storage Drum*					
	4	**Process Design Data**						
	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		*0.67~1*		
	9	Liquid Density (kg/m3)	*860*	Service:		*N/A*		
	10	**Mechanical Design Data**						
	11	Design Temp. (°C)	85	Vessel Orientation		*Horizontal*		
	12	Design Press. (bar)	Full of water + Atm	High Liquid Level (HLL) (mm)		*1050*		D02
D02	13	Test Press. (barg)	0.75 Liquid or 0.3 Air (Note 26) D02	Nominal Liquid Capacity. (m^3)		*4.2 (Note 27)* D02		D02
	14	Internal Vacuum (barg)	-	In. Dia. Of Boots (mm)		*N/A*		
D02	15	In. Dia. of Shell (mm)	1250	Boot Length (mm)		*N/A*		
D02	16	Tan/Tan Dim. (mm)	3000	Boot Head Type		*N/A*		
	17	Vessel Head Type	Per Code & Specification (Note 14)	Corr. Allowance (mm)		*1.6*		
	18	Shell Wall Thk. (mm)	6*	Joint Efficiency		*0.7*		
	19	Head Wall Thk. (mm)	6*	Ambient Temp. (°C)				
	20	Seismic Design	*Site Class: D, Code: ASCE 7-10*	MDMT (°C)		*5*		
	21	Wind Design	*Speed: 120 Km/hr (Max.), Code: ASCE 7-10*	Insulation Required		*No*		
	22	**Materials**						
	23	Code	*ASTM*	Nozzle Necks:				
	24	Shell	*A 285 Gr.C*	Pipes		*A 106 Gr.B*		
	25	Heads	*A 285 Gr.C*	Plates		*A 285 Gr. C*		
	26	Lining / Cladding	*P8*	Forgings		*A 105*		
	27	Saddle	*A 285 Gr. C*	Flanges		*A 105*		
	28	Platform Gratings	*Hot Dip Galvanized C.S.*	Fittings		*A 234 Gr. WPB*		
	29	Gaskets	*Note 26*	External Bolts		*A 193 Gr. B7 (Note 11)*		
	30	Lifting Lugs	*A 285 Gr. C*	External Nuts		*A 194 Gr. 2H (Note 11)*		
	31	Reinforcing Pads	*A 285 Gr.C*	Internal Bolts / Nuts		*S.S.*		
	32	Ladder & Platform	*A 36*	Name Plate		*S.S. 316*		
	33							
	34	**REFERENCE STANDARDS & DOCUMENTS**						
	35	Mechanical Design Code		*BS EN 12285-2*				
	36	Process Basis of Design		*BK-GNRAL-PEDCO-000-PR-DB-0001*				
D02	37	Piping & Instrument Diagram (Sample P&ID)		*BK-W007S-PEDCO-110-PR-PI-0003 / BK-W046S-PEDCO-110-PR-PI-0002*				
	38	Specification for Painting		*BK-GNRAL-PEDCO-000-PI-SP-0006*				
	39	Specification for Insulation D02		*BK-GNRAL-PEDCO-000-PI-SP-0019*				
D02	40	Consumption List		*BK-SSGRL-PEDCO-110-PR-LI-0001*				
	41							
	42	**Fabrication and Inspection Requirements**						
	43	Inspection Authority	*TPI & Client*					
	44	Material Certification	*In Accordance with BS EN 10204:2004, Type 3.1*					
	45	Hydro Test Medium	*Water*	Hydro Test Procedure		*Yes; Per BS EN 12285-2 Standard*		
	46	MT	*Yes; Per Code & Spec. Requir.*	PT		*Yes;Per Code & Spec. Requirements*		
	47	MT Report	*Yes; Per Code & Spec. Requir.*	PT Report		*Yes;Per Code & Spec. Requirements*		
	48	Fabrication Quality Control Plan (With Offer)		*Yes*				
	49	Welding Procedure Review / Approval		*Yes*				
	50	Surface Preparation & Coating		*Specification for Painting Doc. No. "BK-GNRAL-PEDCO-000-PI-SP-0006"*				
	51			*Specification for Lining Doc. No: "BK-GNRAL-PEDCO-000-PI-SP-0007"*				
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Mech. Data Sheet for Diesel Oil Storage Drum "BK-12" Well Pad (V-2001)

Rev		DATA SHEET				Rev
	1	Description :	*Fuel Oil Storage Drum*			
	2	Tag No. :	*V-2001*	Quantity :	*1 Set*	
	3	Type :	*Storage Drum*			
	4	**Process Design Data**				
	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	*0.67~1*	
	9	Liquid Density (kg/m3)	*860*	Service:	*N/A*	
	10	**Mechanical Design Data**				
	11	Design Temp. (°C)	85	Vessel Orientation	Horizontal	
	12	Design Press. (bar)	Full of water + Atm	High Liquid Level (HLL) (mm)	1050	D02
D02	13	Test Press. (barg)	0.75 Liquid or 0.3 Air (Note 26)	Nominal Liquid Capacity (m^3)	4.2 (Note 27) D02	D02
	14	Internal Vacuum (barg)	- D02	In. Dia. Of Boots (mm)	*N/A*	
D02	15	In. Dia. of Shell (mm)	1250	Boot Length (mm)	*N/A*	
D02	16	Tan/Tan Dim. (mm)	3000	Boot Head Type	*N/A*	
	17	Vessel Head Type	Per Code & Specification (Note 14)	Corr. Allowance (mm)	1.6	
	18	Shell Wall Thk. (mm)	6*	Joint Efficiency	0.7	
	19	Head Wall Thk. (mm)	6*	Ambient Temp. (°C)		
	20	Seismic Design	*Site Class: D, Code: ASCE 7-10*	MDMT (°C)	5	
	21	Wind Design	*Speed: 120 Km/hr (Max.), Code: ASCE 7-10*	Insulation Required	No	
	22	**Materials**				
	23	Code	*ASTM*	Nozzle Necks:		
	24	Shell	*A 285 Gr.C*	Pipes	*A 106 Gr.B*	
	25	Heads	*A 285 Gr.C*	Plates	*A 285 Gr. C*	
	26	Lining / Cladding	*P8*	Forgings	*A 105*	
	27	Saddle	*A 285 Gr. C*	Flanges	*A 105*	
	28	Platform Gratings	*Hot Dip Galvanized C.S.*	Fittings	*A 234 Gr. WPB*	
	29	Gaskets	*Note 26*	External Bolts	*A 193 Gr. B7 (Note 11)*	
	30	Lifting Lugs	*A 285 Gr. C*	External Nuts	*A 194 Gr. 2H (Note 11)*	
	31	Reinforcing Pads	*A 285 Gr.C*	Internal Bolts / Nuts	*S.S.*	
	32	Ladder & Platform	*A 36*	Name Plate	*S.S. 316*	
	33					
	34	**REFERENCE STANDARDS & DOCUMENTS**				
	35	Mechanical Design Code		*BS EN 12285-2*		
	36	Process Basis of Design		*BK-GNRAL-PEDCO-000-PR-DB-0001*		
D02	37	Piping & Instrument Diagram (Sample P&ID)		*BK-W007S-PEDCO-110-PR-PI-0003 / BK-W046S-PEDCO-110-PR-PI-0002*		
	38	Specification for Painting		*BK-GNRAL-PEDCO-000-PI-SP-0006*		
	39	Specification for Insulation D02		*BK-GNRAL-PEDCO-000-PI-SP-0019*		
D02	40	Consumption List		*BK-SSGRL-PEDCO-110-PR-LI-0001*		
	41					
	42	**Fabrication and Inspection Requirements**				
	43	Inspection Authority	*TPI & Client*			
	44	Material Certification	*In Accordance with BS EN 10204:2004, Type 3.1*			
	45	Hydro Test Medium	*Water*	Hydro Test Procedure	*Yes;Per BS EN 12285-2 Standard*	
	46	MT	*Yes; Per Code & Spec. Requir.*	PT	*Yes;Per Code & Spec. Requirements*	
	47	MT Report	*Yes; Per Code & Spec. Requir.*	PT Report	*Yes;Per Code & Spec. Requirements*	
	48	Fabrication Quality Control Plan (With Offer)		*Yes*		
	49	Welding Procedure Review / Approval		*Yes*		
	50 51	Surface Preparation & Coating		*Specification for Painting Doc. No. "BK-GNRAL-PEDCO-000-PI-SP-0006" Specification for Lining Doc. No: "BK-GNRAL-PEDCO-000-PI-SP-0007"*		
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Mech. Data Sheet for Diesel Oil Storage Drum of "BK-14" Well Pad (V-2101)

DATA SHEET

Rev							Rev
	1	Description :	*Fuel Oil Storage Drum*				
	2	Tag No. :	*V-2101*	Quantity :	*1*	*Set*	
	3	Type :	*Storage Drum*				
	4	**Process Design Data**					
	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		*0.67~1*	
	9	Liquid Density (kg/m3)	*860*	Service:		*N/A*	
	10	**Mechanical Design Data**					
	11	Design Temp. (°C)	85	Vessel Orientation		*Horizontal*	
	12	Design Press. (bar)	Full of water + Atm	High Liquid Level (HLL) (mm)		1050	D02
D02	13	Test Press. (barg)	0.75 Liquid or 0.3 Air (Note 26)	Nominal Liquid Capacity. (m^3)		4.2 (Note 27) D02	D02
	14	Internal Vacuum (barg)	- D02	In. Dia. Of Boots (mm)		*N/A*	
D02	15	In. Dia. of Shell (mm)	1250	Boot Length (mm)		*N/A*	
D02	16	Tan/Tan Dim. (mm)	3000	Boot Head Type		*N/A*	
	17	Vessel Head Type	Per Code & Specification (Note 14)	Corr. Allowance (mm)		1.6	
	18	Shell Wall Thk. (mm)	6*	Joint Efficiency		0.7	
	19	Head Wall Thk. (mm)	6*	Ambient Temp. (°C)			
	20	Seismic Design	*Site Class: D, Code: ASCE 7-10*	MDMT (°C)		5	
	21	Wind Design	*Speed: 120 Km/hr (Max.), Code: ASCE 7-10*	Insulation Required		*No*	
	22	**Materials**					
	23	Code	*ASTM*	Nozzle Necks:			
	24	Shell	*A 285 Gr.C*	Pipes		*A 106 Gr.B*	
	25	Heads	*A 285 Gr.C*	Plates		*A 285 Gr. C*	
	26	Lining / Cladding	*P8*	Forgings		*A 105*	
	27	Saddle	*A 285 Gr. C*	Flanges		*A 105*	
	28	Platform Gratings	*Hot Dip Galvanized C.S.*	Fittings		*A 234 Gr. WPB*	
	29	Gaskets	*Note 26*	External Bolts		*A 193 Gr. B7 (Note 11)*	
	30	Lifting Lugs	*A 285 Gr. C*	External Nuts		*A 194 Gr. 2H (Note 11)*	
	31	Reinforcing Pads	*A 285 Gr.C*	Internal Bolts / Nuts		*S.S.*	
	32	Ladder & Platform	*A 36*	Name Plate		*S.S. 316*	
	33						
	34	**REFERENCE STANDARDS & DOCUMENTS**					
	35	Mechanical Design Code		*BS EN 12285-2*			
	36	Process Basis of Design		*BK-GNRAL-PEDCO-000-PR-DB-0001*			
D02	37	Piping & Instrument Diagram (Sample P&ID)		*BK-W007S-PEDCO-110-PR-PI-0003 / BK-W046S-PEDCO-110-PR-PI-0002*			
	38	Specification for Painting		*BK-GNRAL-PEDCO-000-PI-SP-0006*			
	39	Specification for Insulation D02		*BK-GNRAL-PEDCO-000-PI-SP-0019*			
D02	40	Consumption List		*BK-SSGRL-PEDCO-110-PR-LI-0001*			
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	42	**Fabrication and Inspection Requirements**					
	43	Inspection Authority	*TPI & Client*				
	44	Material Certification	*In Accordance with BS EN 10204:2004, Type 3.1*				
	45	Hydro Test Medium	*Water*	Hydro Test Procedure	*Yes;Per BS EN 12285-2 Standard*		
	46	MT	*Yes; Per Code & Spec. Requir.*	PT	*Yes;Per Code & Spec. Requirements*		
	47	MT Report	*Yes; Per Code & Spec. Requir.*	PT Report	*Yes;Per Code & Spec. Requirements*		
	48	Fabrication Quality Control Plan (With Offer)		*Yes*			
	49	Welding Procedure Review / Approval		*Yes*			
	50 51	Surface Preparation & Coating		*Specification for Painting Doc. No. "BK-GNRAL-PEDCO-000-PI-SP-0006" Specification for Lining Doc. No: "BK-GNRAL-PEDCO-000-PI-SP-0007"*			
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Mech. Data Sheet for Diesel Oil Storage Drum of "BK-15" Well Pad (V-2201)

DATA SHEET

Rev							Rev
	1	Description :	*Fuel Oil Storage Drum*				
	2	Tag No. :	*V-2201*	Quantity :	*1*	*Set*	
	3	Type :	*Storage Drum*				
	4	**Process Design Data**					
	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		*0.67~1*	
	9	Liquid Density (kg/m3)	*860*	Service:		*N/A*	
	10	**Mechanical Design Data**					
	11	Design Temp. (°C)	85	Vessel Orientation		*Horizontal*	
	12	Design Press. (bar)	Full of water + Atm	High Liquid Level (HLL) (mm)		*1050*	D02
D02	13	Test Press. (barg)	0.75 Liquid or 0.3 Air (Note 26)	Nominal Liquid Capacity. (m^3)		*4.2 (Note 27)* D02	D02
	14	Internal Vacuum (barg)	- D02	In. Dia. Of Boots (mm)		*N/A*	
D02	15	In. Dia. of Shell (mm)	1250	Boot Length (mm)		*N/A*	
D02	16	Tan/Tan Dim. (mm)	3000	Boot Head Type		*N/A*	
	17	Vessel Head Type	Per Code & Specification (Note 14)	Corr. Allowance (mm)		*1.6*	
	18	Shell Wall Thk. (mm)	6*	Joint Efficiency		*0.7*	
	19	Head Wall Thk. (mm)	6*	Ambient Temp. (°C)			
	20	Seismic Design	*Site Class: D, Code: ASCE 7-10*	MDMT (°C)		*5*	
	21	Wind Design	*Speed: 120 Km/hr (Max.), Code: ASCE 7-10*	Insulation Required		*No*	
	22	**Materials**					
	23	Code	*ASTM*	Nozzle Necks:			
	24	Shell	*A 285 Gr.C*	Pipes		*A 106 Gr.B*	
	25	Heads	*A 285 Gr.C*	Plates		*A 285 Gr. C*	
	26	Lining / Cladding	*P8*	Forgings		*A 105*	
	27	Saddle	*A 285 Gr. C*	Flanges		*A 105*	
	28	Platform Gratings	*Hot Dip Galvanized C.S.*	Fittings		*A 234 Gr. WPB*	
	29	Gaskets	*Note 26*	External Bolts		*A 193 Gr. B7 (Note 11)*	
	30	Lifting Lugs	*A 285 Gr. C*	External Nuts		*A 194 Gr. 2H (Note 11)*	
	31	Reinforcing Pads	*A 285 Gr.C*	Internal Bolts / Nuts		*S.S.*	
	32	Ladder & Platform	*A 36*	Name Plate		*S.S. 316*	
	33						
	34	**REFERENCE STANDARDS & DOCUMENTS**					
	35	Mechanical Design Code		*BS EN 12285-2*			
	36	Process Basis of Design		*BK-GNRAL-PEDCO-000-PR-DB-0001*			
D02	37	Piping & Instrument Diagram (Sample P&ID)		*BK-W007S-PEDCO-110-PR-PI-0003 / BK-W046S-PEDCO-110-PR-PI-0002*			
	38	Specification for Painting		*BK-GNRAL-PEDCO-000-PI-SP-0006*			
	39	Specification for Insulation D02		*BK-GNRAL-PEDCO-000-PI-SP-0019*			
D02	40	Consumption List		*BK-SSGRL-PEDCO-110-PR-LI-0001*			
	41						
	42	**Fabrication and Inspection Requirements**					
	43	Inspection Authority	*TPI & Client*				
	44	Material Certification	*In Accordance with BS EN 10204:2004, Type 3.1*				
	45	Hydro Test Medium	*Water*	Hydro Test Procedure	*Yes;Per BS EN 12285-2 Standard*		
	46	MT	*Yes; Per Code & Spec. Requir.*	PT	*Yes;Per Code & Spec. Requirements*		
	47	MT Report	*Yes; Per Code & Spec. Requir.*	PT Report	*Yes;Per Code & Spec. Requirements*		
	48	Fabrication Quality Control Plan (With Offer)		*Yes*			
	49	Welding Procedure Review / Approval		*Yes*			
	50 51	Surface Preparation & Coating		*Specification for Painting Doc. No. "BK-GNRAL-PEDCO-000-PI-SP-0006" Specification for Lining Doc. No: "BK-GNRAL-PEDCO-000-PI-SP-0007"*			
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Mech. Data Sheet for Diesel Oil Storage Drum of "W007S" Well Pad (V-1201)

DATA SHEET

Rev							Rev
	1	Description :	*Fuel Oil Storage Drum*				
	2	Tag No. :	*V-1201*	Quantity :	*1*	*Set*	
	3	Type :	*Storage Drum*				
	4	**Process Design Data**					
	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		*0.67~1*	
	9	Liquid Density (kg/m3)	*860*	Service:		*N/A*	
	10	**Mechanical Design Data**					
	11	Design Temp. (°C)	85	Vessel Orientation		*Horizontal*	
	12	Design Press. (bar)	Full of water + Atm	High Liquid Level (HLL) (mm)		*1050*	D02
D02	13	Test Press. (barg)	0.75 Liquid or 0.3 Air (Note 26)	Nominal Liquid Capacity. (m^3)		*4.2 (Note 27)* D02	D02
	14	Internal Vacuum (barg)	- D02	In. Dia. Of Boots (mm)		*N/A*	
D02	15	In. Dia. of Shell (mm)	1250	Boot Length (mm)		*N/A*	
D02	16	Tan/Tan Dim. (mm)	3000	Boot Head Type		*N/A*	
	17	Vessel Head Type	Per Code & Specification (Note 14)	Corr. Allowance (mm)		*1.6*	
	18	Shell Wall Thk. (mm)	6*	Joint Efficiency		*0.7*	
	19	Head Wall Thk. (mm)	6*	Ambient Temp. (°C)			
	20	Seismic Design	*Site Class: D, Code: ASCE 7-10*	MDMT (°C)		*5*	
	21	Wind Design	*Speed: 120 Km/hr (Max.), Code: ASCE 7-10*	Insulation Required		*No*	
	22	**Materials**					
	23	Code	*ASTM*	Nozzle Necks:			
	24	Shell	*A 285 Gr.C*	Pipes		*A 106 Gr.B*	
	25	Heads	*A 285 Gr.C*	Plates		*A 285 Gr. C*	
	26	Lining / Cladding	*P8*	Forgings		*A 105*	
	27	Saddle	*A 285 Gr. C*	Flanges		*A 105*	
	28	Platform Gratings	*Hot Dip Galvanized C.S.*	Fittings		*A 234 Gr. WPB*	
	29	Gaskets	*Note 26*	External Bolts		*A 193 Gr. B7 (Note 11)*	
	30	Lifting Lugs	*A 285 Gr. C*	External Nuts		*A 194 Gr. 2H (Note 11)*	
	31	Reinforcing Pads	*A 285 Gr.C*	Internal Bolts / Nuts		*S.S.*	
	32	Ladder & Platform	*A 36*	Name Plate		*S.S. 316*	
	33						
	34	**REFERENCE STANDARDS & DOCUMENTS**					
	35	Mechanical Design Code		*BS EN 12285-2*			
	36	Process Basis of Design		*BK-GNRAL-PEDCO-000-PR-DB-0001*			
	37	Piping & Instrument Diagram (P&ID)		*BK-W007S-PEDCO-110-PR-PI-0003*			
	38	Specification for Painting		*BK-GNRAL-PEDCO-000-PI-SP-0006*			
	39	Specification for Insulation		*BK-GNRAL-PEDCO-000-PI-SP-0019*			
D02	40	Consumption List		*BK-SSGRL-PEDCO-110-PR-LI-0001* D02			
	41						
	42	**Fabrication and Inspection Requirements**					
	43	Inspection Authority	*TPI & Client*				
	44	Material Certification	*In Accordance with BS EN 10204:2004, Type 3.1*				
	45	Hydro Test Medium	*Water*	Hydro Test Procedure	*Yes;Per BS EN 12285-2 Standard*		
	46	MT	*Yes; Per Code & Spec. Requir.*	PT	*Yes;Per Code & Spec. Requirements*		
	47	MT Report	*Yes; Per Code & Spec. Requir.*	PT Report	*Yes;Per Code & Spec. Requirements*		
	48	Fabrication Quality Control Plan (With Offer)		*Yes*			
	49	Welding Procedure Review / Approval		*Yes*			
	50	Surface Preparation & Coating		*Specification for Painting Doc. No. "BK-GNRAL-PEDCO-000-PI-SP-0006"*			
	51			*Specification for Lining Doc. No: "BK-GNRAL-PEDCO-000-PI-SP-0007"*			
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Mech. Data Sheet for Fuel Oil Storage Drum of "W046S" Well Pad (V-1301)

DATA SHEET

Rev							Rev
	1	Description :	*Fuel Oil Storage Drum*				
	2	Tag No. :	*V-1301*	Quantity :	*1*	*Set*	
	3	Type :	*Storage Drum*				
	4	**Process Design Data**					
	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		*0.67~1*	
	9	Liquid Density (kg/m3)	*860*	Service:		*N/A*	
	10	**Mechanical Design Data**					
	11	Design Temp. (°C)	85	Vessel Orientation		*Horizontal*	
	12	Design Press. (bar)	Full of water + Atm	High Liquid Level (HLL) (mm)		1050	D02
D02	13	Test Press. (barg)	0.75 Liquid or 0.3 Air (Note 26)	Nominal Liquid Capacity. (m^3)		4.2 (Note 27) D02	D02
	14	Internal Vacuum (barg)	-	In. Dia. Of Boots (mm)		*N/A*	
D02	15	In. Dia. of Shell (mm)	1250 D02	Boot Length (mm)		*N/A*	
D02	16	Tan/Tan Dim. (mm)	3000	Boot Head Type		*N/A*	
	17	Vessel Head Type	Per Code & Specification (Note 14)	Corr. Allowance (mm)		*1.6*	
	18	Shell Wall Thk. (mm)	6*	Joint Efficiency		*0.7*	
	19	Head Wall Thk. (mm)	6*	Ambient Temp. (°C)			
	20	Seismic Design	*Site Class: D, Code: ASCE 7-10*	MDMT (°C)		*5*	
	21	Wind Design	*Speed: 120 Km/hr (Max.), Code: ASCE 7-10*	Insulation Required		*No*	
	22	**Materials**					
	23	Code	*ASTM*	Nozzle Necks:			
	24	Shell	*A 285 Gr.C*	Pipes		*A 106 Gr.B*	
	25	Heads	*A 285 Gr.C*	Plates		*A 285 Gr. C*	
	26	Lining / Cladding	*P8*	Forgings		*A 105*	
	27	Saddle	*A 285 Gr. C*	Flanges		*A 105*	
	28	Platform Gratings	*Hot Dip Galvanized C.S.*	Fittings		*A 234 Gr. WPB*	
	29	Gaskets	*Note 26*	External Bolts		*A 193 Gr. B7 (Note 11)*	
	30	Lifting Lugs	*A 285 Gr. C*	External Nuts		*A 194 Gr. 2H (Note 11)*	
	31	Reinforcing Pads	*A 285 Gr.C*	Internal Bolts / Nuts		*S.S.*	
	32	Ladder & Platform	*A 36*	Name Plate		*S.S. 316*	
	33						
	34	**REFERENCE STANDARDS & DOCUMENTS**					
	35	Mechanical Design Code		*BS EN 12285-2*			
	36	Process Basis of Design		*BK-GNRAL-PEDCO-000-PR-DB-0001*			
	37	Piping & Instrument Diagram (P&ID)		*BK-W046S-PEDCO-110-PR-PI-0002*			
	38	Specification for Painting		*BK-GNRAL-PEDCO-000-PI-SP-0006*			
	39	Specification for Insulation		*BK-GNRAL-PEDCO-000-PI-SP-0019*			
D02	40	Consumption List		*BK-SSGRL-PEDCO-110-PR-LI-0001* D02			
	41						
	42	**Fabrication and Inspection Requirements**					
	43	Inspection Authority	*TPI & Client*				
	44	Material Certification	*In Accordance with BS EN 10204:2004, Type 3.1*				
	45	Hydro Test Medium	*Water*	Hydro Test Procedure	*Yes;Per BS EN 12285-2 Standard*		
	46	MT	*Yes; Per Code & Spec. Requir.*	PT	*Yes;Per Code & Spec. Requirements*		
	47	MT Report	*Yes; Per Code & Spec. Requir.*	PT Report	*Yes;Per Code & Spec. Requirements*		
	48	Fabrication Quality Control Plan (With Offer)		*Yes*			
	49	Welding Procedure Review / Approval		*Yes*			
	50	Surface Preparation & Coating		*Specification for Painting Doc. No. "BK-GNRAL-PEDCO-000-PI-SP-0006"*			
	51			*Specification for Lining Doc. No: "BK-GNRAL-PEDCO-000-PI-SP-0007"*			
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Data Sheets for Fuel Oil Storage Drum of Well Pads

ACCESSORIES , NOZZLES LIST & LOADS @ BASE

Accessories & Attachments *(Note 4)*

Supporting Saddles	Yes	Name Plate Bracket	Yes	
Access Ladder & Platform	Yes	Name Plate	Yes	
Insulation Support	No	Earthing Lug *(Note 17)*	Yes	
Insulation	No	Tailing Lug	Yes	
Insulation Cover	No	Cathodic Protection (Sacrificial Anodes)	No	
Fireproofing Support	No	Anchor Bolts (Note 2)	No	
Lifting Lugs	Yes	Instrumentations D02	Yes	D02
Internal/ External Clips	Yes	Skid	No	
Template	No	Support Clips	Yes	
Boot	No	Vortex Breaker	No	
Davit for Manhole	Yes	Rung & Grip	No	
Internal Lining (By Painting)	Yes	Heating Coil	No	

Nozzles List * *(Note 1, 6, 10)*

	Mark	Qty.	Description	Pipe			Flange			Proj. (mm)	Reinforcement		Remarks
				Size	Thk.	Sch.	Type	Rate.	Face	*(Note 10)*	Thk.	O.D.	
D02	A	1	*Inlet*	*2"*			*SO*	*#150*	*RF*	*781**			
D02	B	1	*Outlet*	*2"*			*SO*	*#150*	*RF*	*781**			
D02	V	1	*Vent*	*2"*			*SO*	*#150*	*RF*	*781**			
D02	D	1	*Drain*	*2"*			*SO*	*#150*	*RF*	*781**			
D02	L 1,2	2	*Level Gauge*	*2"*			*SO*	*#150*	*RF*	*781**			*Note 15*
D02	M	1	*Manway*	*24"*			*SO*	*#150*	*RF*	*937**	*6**	*1050**	

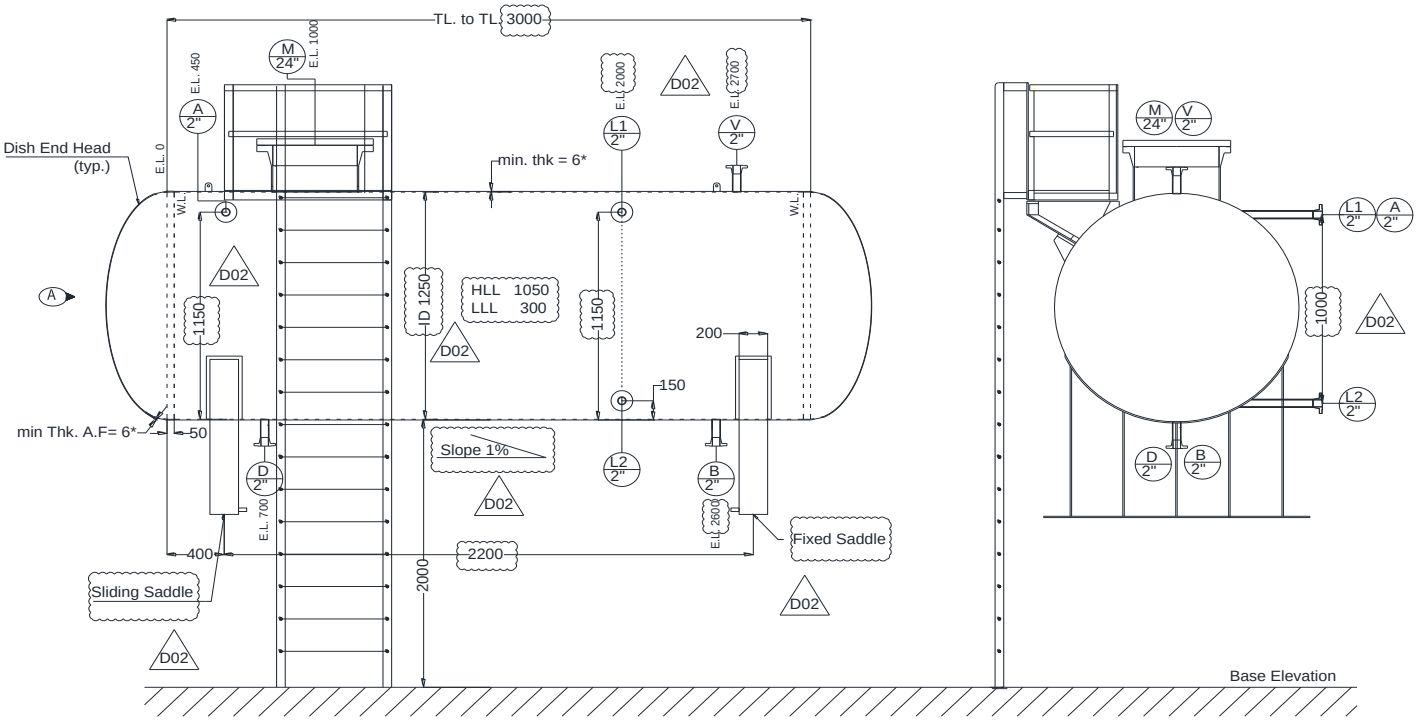
D02

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

Load Condition / 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									

Data Sheets for Fuel Oil Storage Drum of Well Pads

Sketch

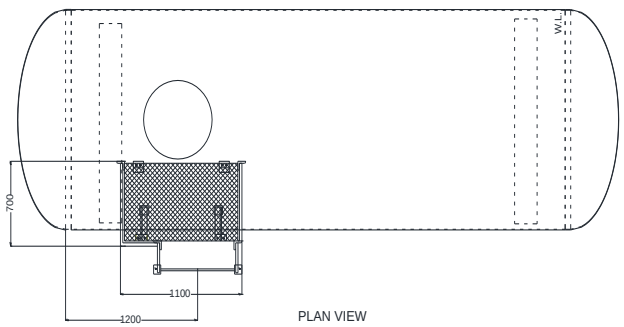


GENERAL VIEW

ELEVATION AND ORIENTATION OF NOZZLES WILL BE FINALIZED LATER

VIEW A

ELEVATION AND ORIENTATION OF NOZZLES WILL BE FINALIZED LATER



PLAN VIEW

All dimensions are in mm.

Data Sheets for Fuel Oil Storage Drum of Well Pads

Rev. | WEIGHT | Rev.

	WEIGHT CONTROL DATA SHEET SI UNIT *	**1/1**
Service :	*Fuel Oil Storage Drum*	Location : *Bushehr (Binak Oilfield)*
Type :		Quotation No. :
No. trains :		Serial No. :
No. stages :		
Supplier :		
Manufacturer :		
Model :		

Note: Information to be completed by equipment vendor.

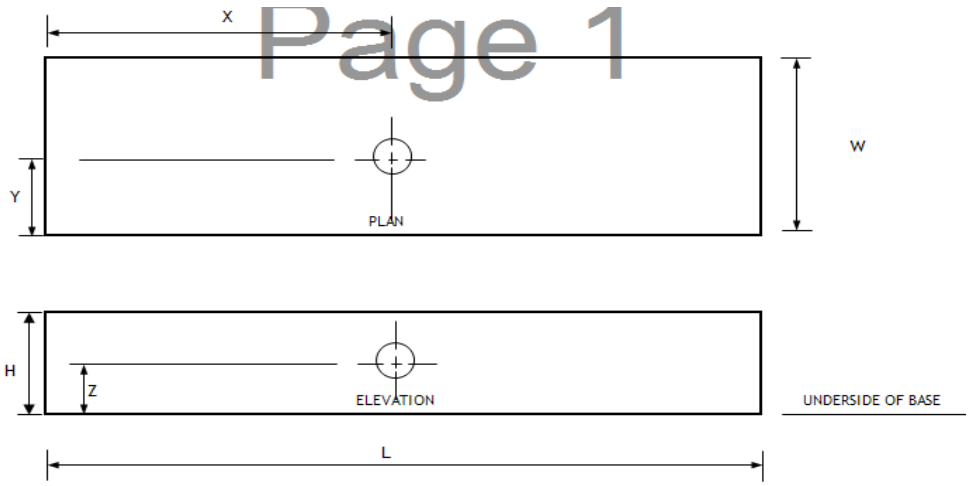
Total weight (kg) *

Fabrication	Erection	Operation	Hydrostatic Test	Removable internal	Ladder & Platform

WEIGHT AND C OF G DATA REQUIRED *

CONDITION	WEIGHT ACCURACY %	WEIGHT (kg)	CENTER OF GRAVITY (mm)		
			X	Y	Z
Dry					

SKETCH



NOTES

1) All lifting points to be load tested and certified.
2) Any spreader beam to be load tested and certified.
3) Lifting / rigging plan for skid mounted equipment to be provided by the Vendor.