

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض







احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

NISOC

MECHANICAL DATA SHEETS FOR FUEL GAS K.O. DRUM

شماره پیمان: ۱۸۶۶ – ۰۷۳ – ۰۵۳

پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه	
BK	GCS	PEDCO	120	ME	DT	0013	D01	

شماره صفحه: ۱ از ۸

طرح نگهداشت و افزایش تولید ۲۷ مخزن

MECHANICAL DATA SHEETS FOR FUEL GAS K.O. DRUM

نگهداشت و افزایش تولید میدان نفتی بینک

D01	SEP. 2022	IFA	H.Adineh	M.Fakharian	M.Mehrshad	
D00	NOV.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-708844

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



۱۸۶ – ۲۲۰ – ۱۸۶

شماره پیمان:

پروژه

BK

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

MECHANICAL DATA SHEETS FOR FUEL GAS K.O. DRUM

تسهیلات صادر کننده بسته کاری نوع مدرك رشته سريال نسخه GCS PEDCO 120 ME DT 0013 D01



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				RE	VISION RE	CORD SHEET					
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نگهداشت و افزایش تولید میدان نفتی بینک





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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

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شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه
	BK	GCS	PEDCO	120	ME	DT	0013	D01

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General Notes

7 D01 Rev 1. The Asterisk * denotes information and/or confirmation required from VENDOR.

2. Deleted

- 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. Painting and coating (internal & external) shall be as per project 'Specification for Painting', Doc. No. BK-GNRAL-PEDCO-000-PI-SP-0006.
- D01 5. Flanges shall comply with ASME B16.5. 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)
 - 6. 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-GNRAL-PEDCO-000-ME-DW-0001".
 - 7. 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.
 - 8. All external bolts and nuts shall be hot dip galvanized. Internal bolts and nuts shall be stainless steel.
 - 9. Loads at support base, Shall be calculated and determined by vendor.
 - 10. Access Ladder & Platform to be considered .

D01 11. Deleted

12. All material, corrosion allowance and their suitability for the process fluid at design pressure and temperature to be confirmed by vendor.

D01 13. Deleted

- D01 14. All nozzle locations and orientations to be finalized later.
 - 15. Instrumentation items are excluded from vendor's scope of supply.
 - 16. Any changes in material of construction, location & orientation of the nozzles shall be confirmed by client.
 - 17. All materials shall be new and unused.
 - 18. Fabrication tolerances for vessel shall be in accordance with requirement of ASME code.
 - 19. Location and number of lifting lugs on vessels shall be specificed on VENDOR drawing.
 - 20. All items shall be clearly match marked against vessel drawings to facilitate erection.

D01 21. Deleted

- 22. Vendor shall supply details of all welding connections and give general specification of used materials.
- 23. 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).
- D01 24. Equipment packaging, preparation for shipment and delivery shall be in accordance with the project Packing, Marking, Transportation Procedure Doc. No. "BK-GNRAL-PEDCO-000-QC-PR-0045".
 - 25. Specified accessories and attachments shall be supplied by vendor.
 - 26. Gasket shall be spiral wound type, graphite filled with inner ring and outer ring S.S.316
- D01 27. Deleted
- D01 28. Deleted
- 29. Two M12 earthing lugs shall be provided on vessel support. Material of Earthing lugs shall be S.S. 316



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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک





شماره پیمان:

MECHANICAL DATA SHEETS FOR FUEL GAS K.O. DRUM

 نسخه
 سریال
 نوع مدر ک
 رشته
 تسهیلات
 صادر کننده
 بسته کاری
 پروژه
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شماره صفحه: ٤ از ٨

General Notes (Cont'd)

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D01

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- 30. 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". Projection of Horizontal & Vertical nozzles is from tengent line and centerline respectively.
- 31. Elliptical heads shall be Ultrasonic Tested for LAMINATION after forming.
- 32. 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".
- 33. 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.
- 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.
- 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.
- D01 36. Minimum requirement for pre-commissioning, commissioning, start up and two years operation shall be in accordance with document 2 E&C-QC-SP-1.2
 - 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.
 - 38. Design pressure specified is at top of vessels. VENDOR design shell include static head for vessels flooded with specific gravity of the handled liquid.
 - 39. VENDOR is to maximize shop fabrication based on the following transportation limits:
 - 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

For items with dimensions and weights greater than the road capacity specified above, VENDOR may be required to split the package into several components.

- 40. All external attachments directly welded to the pressure part shall be the same material as vessel grade.
- 41. Thickness indicated on this DWG are minimum. Vendor shall check and guarantee them on strength as per code and specification.
- 42. All dimensions shown are in mm unless otherwise indicated. All nozzle sizes are in inch.
- D01 43. Deleted
- D01 44. DEMISTER specification will be finilized latter.
 - The material shall be in compliance with NACE MR0175/ISO15156 and Specification For Material Requirements in Sour service Document No. BK-GNRAL-PEDCO-000-PI-SP-0008.
 - 46. Welded carbon and carbon manganess 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.

Ceq. = C+MN/6+(Cr+Mo+V)/5+(Cu+Ni)/15 < 0.42 %

- 47. All carbon steel material shall be fully killed, fine grain treated and supplied in the normalized condition.
- D01 48. The Vendor shall be fully responsible for the complete mechanical design, preparing calculation book and supply of the vessel.



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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک







شماره صفحه: ٥ از ٨

1 Description Find Gen K.O. Drain				Mechanical Data Sheets For Fuel Ga	s K.O. Drum (V-2205) / sheet 1 of 4		
1 Description Faul Cas K.O. Draws 2 Tag No. 1 2.205	Rev			DATA S	HEET		Rev
3 Type				as K.O. Drum			
A			U		Quantity : 1 Set		
Sourcets			Type : Pressur		Decian Data		
6 Operating Temp. (*C)			Contents	Process L		CO2 H2S	
7 Operating Press. Design 4.9 Visp. Molex. (Weight Liquid Visp. (liquid Visp. Service Servic				18 88 -36 78		CO2, 1125	
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Dot 25						1106 G D W	
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DO1 27 Leg / Pad A 516 Gr.60 N / A 283 Gr. C Flanges A 103 N DO1 28 Platform Gratings Hot Dip Galvanized C.S. Fittings A 234 Gr. WPB DO1 29 Gaskets Note 26 External Bolts A 193 Gr. B7 DO1 DO1 31 Reinforcing Pads A 516 Gr.60 N / A 283 Gr. C External Nuts A 194 Gr. 2H DO1 DO1 31 Reinforcing Pads A 516 Gr.60 N / A 283 Gr. C External Nuts A 194 Gr. 2H DO1 DO1 31 Reinforcing Pads A 516 Gr.60 N Internal (Reinovable) S.S. 316 DO1 33 Name Plate S.S. 316 DO1 S.S. 316 DO2 S.S. 316 S.S. 316 DO2 S.S.				A 310 Gr. 00 N		1 1 2 111 1	
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REFERENCE STANDARDS & DOCUMENTS 36 Mechanical Design Code 37 Specification for Pressure Vessels 38 Process Basis of Design 39 Piping & Instrument Diagram (P&ID) 39 Specification for Painting 30 Specification for Painting 30 Specification for Painting 31 Specification for Insulation 42 Specification For Material Requirements in Sour service 43 Specification For Material Requirements in Sour service 44 Specification For Material Requirements in Sour service 45 Inspection Authority 46 Material Certification 47 In Accordance with BS EN 10204:2004, Type 3.1, Minimum for Pressure Containing and Attachments 48 Post Weld Heat Treatment 49 MT 40 Spot Weld Heat Treatment 40 On Nozzle Neck to Flange & Fabricated Nozzle Neck Longitudinal Butt-Welds, 50 RT 50 No Nozzle Neck to Flange & Fabricated Nozzle Neck Longitudinal Butt-Welds, 51 RT Report 52 Yes; Per Code & Spec. Requirements 53 RT Report 54 Yes; Per Code & Spec. Require 55 Fabrication Quality Control Plan (With Offer) 56 Welding Procedure Review / Approval 57 Surface Preparation & Coating 58 Coating 59 Secification for Lining Doc. No: "BK-GNRAL-PEDCO-000-PI-SP-0006" 59 Secification for Lining Doc. No: "BK-GNRAL-PEDCO-000-PI-SP-0007" 59 Secification for Lining Doc. No: "BK-GNRAL-PEDCO-000-PI-SP-0007" 50 Secification for Lining Doc. No: "BK-GNRAL-PEDCO-000-PI-SP-0007"					Internal (Fixed)	A 516 Gr.60 N	D01
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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 FUEL GAS K.O. DRUM

تسهیلات صادر کننده بسته کاری پروژه شماره پیمان: نوع مدرك رشته نسخه سريال GCS PEDCO 120 BK ME DT 0013 D01



شماره صفحه: ۲ از ۸

Mochanical	Data Shoote	e Ear Eugl Gae	K O Drun	n (V-2205) / sheet :	2 of 1

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٧.					ACCES				LIST & LC			E /				
	1					Acces			achments (/			D01				
	2	Supporting		Diotform /NI-1	10)		YES		Name Plate		Ī					YES
	3	Insulation		Platform (Note	9 10)		YES NO		Name Plate Earthing Lug		201					YES YES
	4 5	Insulation	Suppon	<u> </u>			NO		Tailing Lug	J (NOIE	30)					NO
	6	Insulation	Cover				NO		Cathodic Pr	otection	(Sacrifi	icial Anod	es)			NO
	7	Fireproofin		ort			NO		Anchor Bolts		(Outrin	10101711100	00)			NO
- 1	8	Lifting Lug	S				YES		Instrumenta	tions						NO
!	9	Internal Si					YES		Skid							NO
	10	Internal Im	pingem	ent Baffle			YES		Vortex Brea							YES
	11			Pad (Note 44)		YES		Davit for Boo	ly Flang	е					YES
	2 3	Internal Lin	iing				YES									
	14															
	5															
	6									^	\					
1	7									/D0	11					
1	8							s Lis	st * (Note 1)		71					
	9	Mark	Qty.	Des	cription		Pipe			Flange					cement	Remarks
	20				-	Size	Thk.	Scl		Rate.	Face	(Note		Thk.	O.D.	
1 2		A B1	1		Inlet	2"			WN	#150	RF	428				
1 2		B1 B2	1		s Outlet id Outlet	2"			WN WN	#150 #150	RF RF	See DV 314.2				
		Deleted	1	Liqu	ia Ouitei	2			VVIV	#130	KF	314.2	.5			
1 2		Н	1	На	ndhole	8"			WN	#150	RF	478	5	*	*	Note 6
1 2		S	1		Connection	2"			WN	#150	RF	428.				
1 2		P1	1		ire Gauge	2"			WN	#300	RF	428				
1 2		P 2,3	2	1	PDG	2"			WN	#300	RF	428				
1 2		PSV	1		Safety Valve	2"			WN	#150	RF	428				
	30	L 1,2	2		nd Pipe	3"			WN	#150	RF	428				
	31	L 3,4	2		<u> ransmitter</u>	2"			WN	#300	RF	428				
3		V	2"		Vent	2"			WN	#150	RF	See DI	WG			
	33 34								+		-					
	35															
	36															
3 4 4 4	38 39 40 41 42 43					Wind o	nd Soiom	io I o	ads at Base *	Noto/0	1					
	14	<u> </u>		_		willu a	ilu Seisili									
	15	Load Co	ndition	Em	pty Condition		<u> </u>	Ope	rating Condit	ion			Test	ing Con	aition	
	16	M /		Max. Shear	Max.		Max. Sh	ear	Max.			Max.	Ma	х.		
	17 18			@ Base	Moment @	Weight	@ Bas	e	Moment @	Weig	ht l	Shear Base	Mome	nt @	V	Veight
1	19	Ϋ́Q		(Kg)	Base	(Kg)	(Kg)		Base	(Kg)			Bas	e		(Kg)
	50	Load T	vpe		(Kg.m)				(Kg.m)			(Kg)	(Kg.	m)		
	51	WINI														
5	52				 	-	1			1						
5		SEISM	IC													
5 5 5	53 54															
5 5 5 5	54 55															
5 5 5 5 5	54 55 56															
5 5 5 5 5 5	54 55 56 57															
5 5 5 5 5 5 5	54 55 56 57 58															
5 5 5 5 5 5 5 5 5	54 55 56 57 58															
5 5 5 5 5 5 6	54 55 56 57 58 59															
	54 55 56 57 58 59 50 51															
5 5 5 5 6 6 6 6 6 6 6 6	54 55 56 57 58 59															



نگهداشت و افزایش تولید میدان نفتی بینک

سطح الارض



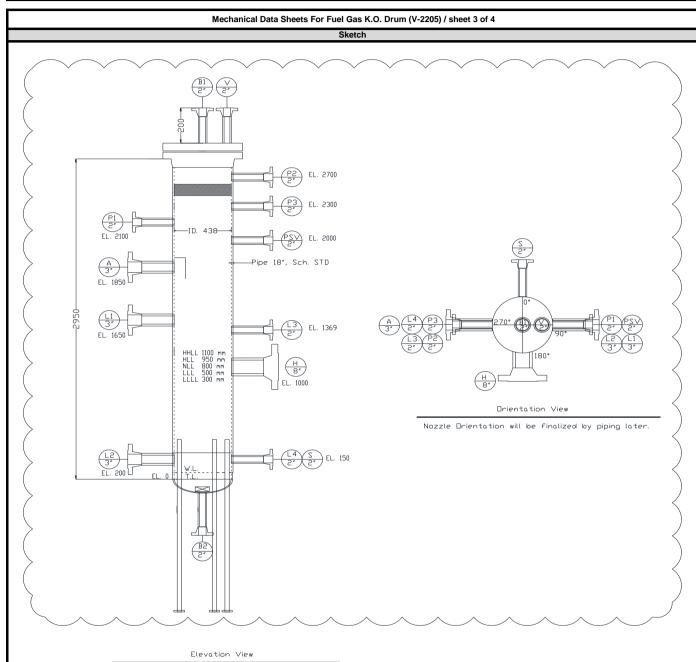
NISOC

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

MECHANICAL DAT	A SHEETS FOR FIIFI	GASKO DRIIM

	شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدر ک	سريال	نسخه	
٤٨١ ٩ - ٣٧٠ - ٣٥٠		BK	GCS	PEDCO	120	ME	DT	0013	D01	

شماره صفحه: ۱ از ۸



Nozzle Elevation will be finalized by piping later.

All dimensions are in mm.



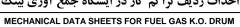
٤٨١٤ – ٧٧٠ – ٥١٨٤

شماره پیمان:

پروژه

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



 نسخه
 سریال
 نوع مدر ک
 رشته
 تسهیلات
 صادر کننده
 بسته کاری

 GCS
 PEDCO
 120
 ME
 DT
 0013
 D01



شماره صفحه: ۸ از ۸

		Med	nanical Da	ata Sheets For Fuel G	as K.O. Drum (V-	-2205) / shee	et 4 Of 4				
				WEI	GHT				Re		
1 2 3 4		WEIGHT CONT DATA SHEE SI UNIT *					1/1				
4 5 6 7	Service :	Fuel Gas K.O. Drum	!		Location : Bushehr (Binak Oilfield) Quotation No. :						
7 8	Type : No. trains :				Serial No						
9	No. stages :										
10 11	Supplier : Manufacturer :										
12	Model :										
13 14 15	Note: Information to	be completed by eq	uipment	vendor.							
16	_			Total w	eight (kg) *						
17 18	Fabrication	Erection		Operation	Hydrosta	tic Test	Removable internal	Ladder & Platform			
19											
20											
21 22											
23			V	EIGHT AND C OF	G DATA REC	QUIRED *					
24	CONDITION	WEIGHT		WEIG	HT		CENTER OF GRAY				
25 26		ACCURACY	%	(kg))	Х	Y	Z			
27	Dry										
28		"		1		I.	<u>'</u>				
29 30				S I	ETCH						
31			X	<u> </u>	EICH						
32 33 34 35 36 37 38	- Y	1	+	-ag -+	e í	-	w				
39 40 41		↓		PLAN							
42 43 44 45	-	1									
46 47		↓		ELEVATION			UNDERSIDE OF BAS	E			
48	-										
49		-		L							
50 51		'					'				
52				N	OTES						
53	1) All lifting points to	be load tested and	certified.								
54 55	2) Any spreader bea3) Lifting / rigging p	am to be load tested	and cert	ified.	hu tha Vandar						
56	3) Litting / rigging pi	ian ioi skiu mounteu	equipme	ent to be provided i	by the vendor.	•					
57											
58		-				-					
59 60									4		
61									-		
62											
~~					·				1		