







احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

NISOC

MECHANICAL DATA SHEETS FOR FLARE K.O. DRUM

شماره پیمان: ۹۱۸۴ – ۰۷۳ – ۰۵۳

پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه
BK	GCS	PEDCO	120	ME	DT	0012	D02

شماره صفحه: ۱ از ۸

طرح نگهداشت و افزایش تولید ۲۷ مخزن

MECHANICAL DATA SHEETS FOR FLARE K.O. DRUM

نگهداشت و افزایش تولید میدان نفتی بینک

D02	JUL.2023	IFA	H.Adineh	M.Fakharian	A.M.Mohseni	
D01	SEP.2022	IFA	H.Adineh	M.Fakharian	M.Mehrshad	
D00	JAN.2022	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-708843			

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



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

MECHANICAL DATA SHEETS FOR FLARE K.O. DRUM



	شماره پیمان:	ĺ
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پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه
BK	GCS	PEDCO	120	ME	DT	0012	D02

شماره صفحه: ۲ از ۸

D04

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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک





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MECHANICAL DATA SHEETS FOR FLARE K.O. DRUM

	شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه	
- 9114		BK	GCS	PEDCO	120	ME	DT	0012	D02	

شماره صفحه: ۳ از ۸

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, preparing calculation book and supply of the vessel. The vessel shall be supplied in accordance with project 'Specification for Pressure Vessels', Doc. No. BK-GNRAL-PEDCO-000-ME-SP-0001. The manufacturer shall calculate thickness and loads of the vessel.
- 2. 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.
- 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. Access Ladder & Platform to be considered .
- 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, 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 for horizontal nozzles. VENDOR to confirm maximum allowable nozzle loads and moments. (RF: Raised Face, WN: Welding Neck, LWN: Long Weld Neck)
- 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).
- 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.
- 9. Loads at support base, Shall be calculated and determined by vendor.
- 10. Location and number of lifting lugs on vessels shall be specificed on VENDOR drawing.
- 11. All external bolts and nuts shall be hot dip galvanized. Internal bolts and nuts shall be stainless steel.
- 12. All material, corrosion allowance and their suitability for the process fluid at design pressure and temperature to be confirmed by vendor.
- 13. Deleted
- 14. All nozzle locations and orientations will 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 dimensions shown are in mm unless otherwise indicated. All nozzle sizes are in inch.
- 18. All removable internals should be passed through manhole.
- 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. Flange faces shall be protected by wooden or plastic dummy flanges.
- 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. Vendor shall supply details of all welding connections and give general specification of used materials.
- 25. Specified accessories and attachments shall be supplied by vendor.
- 26. Gasket shall be spiral wound type, graphite filled with inner ring S.S.316 and outer ring S.S. 316L



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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 FLARE K.O. DRUM

General Notes (Cont'd)

D02

صادر کننده شماره پیمان: بسته کاری تسهيلات نوع مدرك ن...خ*ه* پروژه سريال .AT _ .VT _ 91AF **PEDCO** BK GCS 120 MF DT 0012 D02

شماره صفحه: ۴ از ۸

Rev

- 27. Fire proofing requirement will be specified as per result of fire proofing zone layout. "Area Classification: Zone 2, IIB, T3"
- 28. Deleted.
- 29. 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".
- 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".
- 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". Projection of Horizontal & Vertical nozzles is from tengent line and centerline respectively.
- 33. Deleted
- 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-GNRAL-PEDCO-000-ME-DW-0001".
- 35. Minimum requirement for pre-commissioning, commissioning, start up and two years operation spare parts shall be in accordance with 🛭 document E&C-QC-SP-1.🗈
- 36. Two M12 earthing lugs shall be provided on vessel support. Material of earthing lugs shall be S.S. 316. 2
- 37. The material shall be in compliance with NACE MR0175/ISO15156 and Specification for Material Requirements in Sour Service, Doc.No. BK-GNRAL-PEDCO-000-PI-SP-0008.
- 38. 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 %

- 39. All carbon steel material shall be fully killed, fine grain treated and supplied in the normalized condition.
- 40. All nozzles must be vertical or horizontal and not perpendicular or parallel to vessel center line.
- 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.
- 42. Design pressure specified is at top of vessels. VENDOR design shell include static head for vessels flooded with specific gravity of the handled liquid.
- 43. 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.

44. All external attachments directly welded to the pressure part shall be the same material as vessel grade.

45. VENDOR to advise (VTA) internal for inlet nozzle.



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نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک







شماره صفحه: ۵ از ۸

Tag No. : V-2201 Type : Pressu Contents : Operating Temp. Operating Temp. (°C) Operating Press. (barg) Gas Flow (kg/h) Liquid Viscosity (cP) Design Temp. (°C) Design Press. (barg)	re Vessel	Quantity : I Set Design Data Corrosive / Erosive Liquid Flow (kg/h) Vap. Molec. Weight (kg/kmol)	
Tag No. : V-2201 Type : Pressu Contents : Operating Temp. Operating Temp. (°C) Operating Press. (barg) Gas Flow (kg/h) Liquid Viscosity (cP) Design Temp. (°C) Design Press. (barg)	re Vessel Process I HC, H2O, CO2, H2S 32	Design Data Corrosive / Erosive Liquid Flow (kg/h)	
Type : Pressu Contents Operating Temp. (°C) Operating Press. (barg) Gas Flow (kg/h) Liquid Viscosity (cP) Design Temp. (°C) Design Press. (barg)	re Vessel Process I HC, H2O, CO2, H2S 32	Design Data Corrosive / Erosive Liquid Flow (kg/h)	
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Design Press. (barg)	Mechanica	Il Design Data D02	
	85	Vessel Orientation	Horizontal
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Test Press. (barg)	Per Code & Specification	Nor. Liquid Vol. (m	3) -
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n. Dia. of Shell (mm)	1000	Boot Length (mn	n)
Tan/Tan Dim. (mm)	3000	Boot Head Type	N/A
	*		0.85 Shell / 1 Head
	* (After Forming)		
			*
			No -29
wind Design			IVO
0-4-			
			1 100 C P
			A 106 Gr.B
	1 1 2 1 1 1		A 516 Gr.70 N
			A 105 N
			A 105 N
Platform Gratings	Hot Dip Galvanized C.S.		A 234 Gr. WPB
Gaskets	Note 26	External Bolts	A 193 Gr. B7 (Note 11)
Lifting Lugs	A 516 Gr.70 / A 283 Gr. C	External Nuts	A 194 Gr. 2H (Note 11)
Reinforcing Pads	A 516 Gr.70 N	Internal Bolts / Nuts	
	C.S.	Name Plate	S.S. 316
	REFERENCE STAND	DARDS & DOCUMENTS	
Mechanical Design Code			1. IPS-G-ME-150
	essels		
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	(i dib)		
Specification for material regi	uiroments in Sour convice		
Specification for material requ	ullernerits in Sour Service	BK-GNRAL-FEDC	<i>U-000-F1-SF-000</i> 8
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			Yes; Per Code & Spec. Requirements
	* *		100%
MT			Yes; Per Code & Spec. Requirements
RT	1	-	
	100 % On Nozzle Neck to Flange &	& Fabricated Nozzle Neck Longitudinal .	Butt-Welds,
RT Report	Yes; Per Code & Spec. Requir.		Yes; Per Code & Spec. Requirements
MT Report	Yes; Per Code & Spec. Requir.	UT Report	Yes; Per Code & Spec. Requirements
Fabrication Quality Control F		Ye	28
Welding Procedure Review		Ye	
vveluing Flocedule Review			
-		Specification for Painting Doc. No. "R.	K-GNRAL-PEDCO-000-PI-SP-0006"
Surface Preparation & Coating	ng	Specification for Painting Doc. No. "Base Specification for Lining Doc. No." "Bi	
-	ng	Specification for Painting Doc. No. "B. Specification for Lining Doc. No: "Bi	
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-	ng		
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	Code Shell Ileads Ileads Iskirt (Top / Bottom) Platform Gratings Baskets Ifting Lugs Beinforcing Pads Idechanical Design Code Inforcing Pads Idechanical Design Code Inforcing Pads Instrument Diagram Inforcing & Instru	hell Wall Thk. (mm) * (After Forming) lead Wall Thk. (mm) * (After Forming) Site Clas: D, Code: ASCE 7-10 Wind Design Speed: 120 Km/hr (Max.), Code: ASCE 7-10 Sode ASME II / ASTM Sining / Cladding P2 Rikirt (Top / Bottom) A 516 Gr. 70 / N Reads A 516 Gr. 70 / N Reads A 516 Gr. 70 / A 283 Gr. C Relatform Gratings A 516 Gr. 70 / A 283 Gr. C Reinforcing Pads A 516 Gr. 70 / A 283 Gr. C Reinforcing Pads A 516 Gr. 70 / A 283 Gr. C Reinforcing Pads A 516 Gr. 70 / A 283 Gr. C Reinforcing Pads A 516 Gr. 70 / A 283 Gr. C Rechanical Design Code Recification for Pressure Vessels Rechanical Design Code Repecification for Painting Repecification for Painting Recification for Insulation Repecification for Insulation Repecification for material requirements in Sour service Fabrication and Insulation Recordance with BS EN 10204:2004, 100 % on Lifting Lug Fillet Welds RT Report Yes; Per Code & Spec. Requir.	hell Wall Thk. (mm) ead Wall Thk. (mm) * (After Forming) * Site Class: D. Code: ASCE 7-10 Wind Design Speed: 120 Km/hr (Max.). Code: ASCE 7-10 Insulation Required **Materials** Sode * ASME II / ASTM ASME II / ASTM Nozzle Necks: Shell A 516 Gr. 70 N Plates Fining / Cladding Battorm Gratings Hot Dip Galvanized C.S. Fittings Baskets Note 26 External Bolts Fittings Baskets A 516 Gr. 70 N Internal Bolts / Nuts A 516 Gr. 70 N Internal Bolts / Nuts A 516 Gr. 70 N Internal Bolts / Nuts Materials **REFERENCE STANDARDS & DOCUMENTS** Mechanical Design Code Specification for Pressure Vessels Bask GNRAL-PEDCC Specification for Painting Bask GNRAL-PEDCC Specification for Painting Specification for Painting Bask GNRAL-PEDC Specification for Painting Bask GNRAL-PEDC Specification for material requirements in Sour service Fabrication and Inspection Requirements In Accordance with BS EN 10204:2004, Type 3.1, Minimum for Pressure Contain Hydro Test Medium Water Hydro Test Procedure In One on T-Joints and Head Joints Butt-Welds, Spot On Shell Longitudinal and Circumferential Joints Butt-Welds, 100 % On T-Joints and Head Joints Butt-Welds, 100 % On Nozzle Necks: Materials Materials Hordinals Requirement Pressure Vessels Bask GNRAL-PEDC Bask GN



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تگهداشت و افزایش تولید میدان نفتی بینک سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

MECHANICAL DATA SHEETS FOR FLARE K.O. DRUM

 نسخه
 سریال
 نوع مدر ک
 رشته
 تسهیلات
 صادر کننده
 بسته کاری
 پروژه
 شماره پیمان:

 BK
 GCS
 PEDCO
 120
 ME
 DT
 0012
 D02



شماره صفحه: ۱۶ز ۸

Mechanical Data Sheets For FLARE K.O. DRUM (V-2201) / sheet 2 of 4

Supporting Saddles										·2201) / sh	eet 2 of	4																					
2 Supporting Saddies					ACCES						BAS	E					Re																
A cases Ladder & Platform (Note 4)	1					Acces	ssories & A	ttach	ments (/	Vote 25)																							
A cases Ladder & Pletform (Note 4) YES Name Plate YES	2	Supporting	g Saddle	S			YES	Nai	me Plate	Bracket						YES	1																
A Insulation Support					9 4)		YES	Naı	me Plate							YES																	
S Insulation					/		NO			(Note:	30)					YES																	
Filestation Cover			опро							, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							1																
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11 Boot			xternal	Jips													1																
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Nozzles List (Note 1)	13	Internal Li	ning (By	Painting)			YES	Hea	ating Coil							NO																	
Nozzles List (Note 1) DO2 DO3 DO3	15																																
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T	26	P	1	Pressi	ure Gauge	2"			WN	#300	RF	See D	WG																				
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1.34 2 Level Transmitter LL 2" WN #300 RF See DWG														•	•	Note /	100																
1.5.6 2 Level Transmitter HH A 2" WN #300 RF See DWG See D							-										-																
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Load Condition Max. Shear						Wind a	nd Seismic I	Loads	at Base '	Note(9)						i																
Coad Condition Empty Condition Coperating Cop		\		_			· · ·								1																		
Max. Shear		Load Co	Load Condition Empty Condition				0	perati	ng Condit	ion			Tes	ting Con	dition																		
## A ##					May Shear May		May Shear May May		May Chase		Man			l Max.					1														
## A ##	46	Max. Shear Max.			Max. Shear Max.											9	hear																
49 50		M							[7]			M			[4]		@ Base Moment @ Weight		Base				@ Base	Mo	ment @	Weigh	nt I		Mom	ent @	١ ١	-	
Load Type (Kg.m)	47	CAST \												1	Rase	(Kø)	_		Ва	ise		(Kg)	1										
51	47 48	CAST \		_	Base	(Kg)	(Kg)		Dusc	(1,19)		IKUI I																					
52	47 48 49			_		(Kg)	(Kg)			(1.8)		(1.6/	(Kg	g.m)																			
52 53 54 55 55 56 57 58 59 60 61 62 63	47 48 49 50		ype	_		(Kg)	(Kg)			(1.6/		1.6/	(Kg	g.m)																			
54	47 48 49 50 51	Load T		_		(Kg)	(Kg)			(116)		(116)	(Kg	g.m)			_																
54 55 56 57 58 59 60 61 62 63	47 48 49 50 51 52	Load T		_		(Kg)	(Kg)			(118)		(1.6)	(Kg	g.m)			_																
56 57 58 59 60 61 62 63	47 48 49 50 51 52 53	Load T WINI	D	_		(Kg)	(Kg)			(1.6)		(1.6)	(Kg	g.m)			_																
57 58 59 60 61 62 63	47 48 49 50 51 52 53 54	Load T WINI	D	_		(Kg)	(Kg)			(1.6)		(1.6)	(Kg	g.m)			-																
58 59 60 61 62 63	47 48 49 50 51 52 53 54 55	Load T WINI	D	_		(Kg)	(Kg)			(1.8)		(1.6)	(Kg	g.m)			-																
59 60 61 62 63	47 48 49 50 51 52 53 54 55 56	Load T WINI	D	_		(Kg)	(Kg)			(1.8)		(1.8)	(Kg	g.m)			-																
59 60 61 62 63	47 48 49 50 51 52 53 54 55 56 57	Load T WINI	D	_		(Kg)	(Kg)			(1.8)		(1.6)	(Kg	g.m)			_																
60 61 62 63	47 48 49 50 51 52 53 54 55 56 57	Load T WINI	D	_		(Kg)	(Kg)			(1.8)		(1.6)	(Kg	g.m)			_																
61 62 63	47 48 49 50 51 52 53 54 55 56 57 58	Load T WINI	D	_		(Kg)	(Kg)			(1.8)		(1.6)	(Kg	g.m)			-																
62 63	47 48 49 50 51 52 53 54 55 56 57 58 59	Load T WINI	D	_		(Kg)	(Kg)			(1.8)		(1.6)	(Kg	z.m)			_																
63	47 48 49 50 51 52 53 54 55 56 57 58 59 60	Load T WINI	D	_		(Kg)	(Kg)			(1.8)		(1.6)	(Kg	;.m)			-																
63	47 48 49 50 51 52 53 54 55 56 57 58 59 60 61	Load T WINI	D	_		(Kg)	(Kg)			(**8)		(1.6)	(Kg	;.m)			-																
[64]	47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62	Load T WINI	D	_		(Kg)	(Kg)			(**8)		(1.6)	(Кд	;.m)			-																
I	47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63	Load T WINI	D	_		(Kg)	(Kg)			(**8)		(**6)	(Кд	;.m)			-																
65	47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64	Load T WINI	D	_		(Kg)	(Kg)			(**8)		(**6)	(Kg	;.m)			-																



نگهداشت و افزایش تولید میدان نفتی بینک

سطح الارض



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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

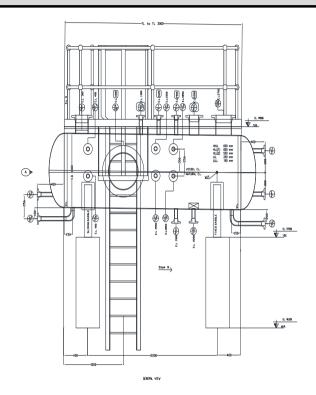
MECHANICAL	DATA	SHEETS FOR FL	ARE KO	DRIIM

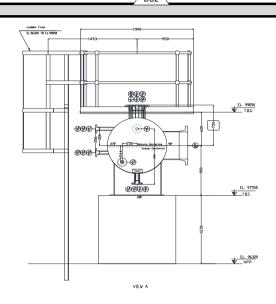
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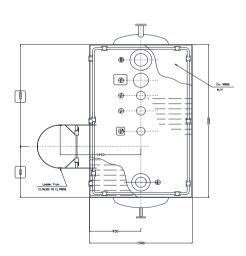
شماره صفحه: ۱ از ۸

Mechanical Data Sheets For FLARE K.O. DRUM (V-2201) / sheet 3 of 4

Sketch







All dimensions are in mm.



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



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61 62

MECHANICAL DATA SHEETS FOR FLARE K.O. DRUM

	شماره پیمان:	پروژه	بسته کاری	صادر كننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه
•00 - • • • • • • • • • • • • • • • • •		BK	GCS	PEDCO	120	ME	DT	0012	D02

شماره صفحه: ۱۸ز ۸

Mechanical Data Sheets For FLARE K.O. DRUM (V-2201) / sheet 4 of 4 WEIGHT Rev. Rev **WEIGHT CONTROL** 2 DATA SHEET 1/1 4 5 6 SI UNIT * Bushehr (Binak Oilfield) Service Flare K.O. Drum Location Туре Quotation No. 7 8 No. trains Serial No. 9 No. stages 10 Supplier 11 Manufacturer : 12 Model 14 Note: Information to be completed by equipment vendor. 15 16 Total weight (kg) * 17 Erection Fabrication Operation Hydrostatic Test Removable internal Ladder & Platform 18 19 20 21 22 23 WEIGHT AND C OF G DATA REQUIRED * 24 WEIGHT WEIGHT CENTER OF GRAVITY (mm) CONDITION 25 **ACCURACY %** (kg) 26 Dry 27 28 29 SKETCH 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 UNDERSIDE OF BASE 47 48 49 50 51 **NOTES** 52 53 1) All lifting points to be load tested and certified. 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 58 59 60