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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

MECHANICAL DATA SHEETS FOR INSTRUMENT AIR RECEIVER

شماره پیمان: ۹۱۸۶ – ۷۲۳ – ۰۵۳

•	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه
	BK	GCS	PEDCO	120	ME	DT	8000	D03

شماره صفحه: ۱ از ۸

طرح نگهداشت و افزایش تولید ۲۷ مخزن

MECHANICAL DATA SHEETS FOR INSTRUMENT AIR RECEIVER

نگهداشت و افزایش تولید میدان نفتی بینک

Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval
D00	NOV.2021	IFC	H.Adineh	M.Fakharian	M.Mehrshad	·
D01	SEP. 2022	IFA	H.Adineh	M.Fakharian	M.Mehrshad	
D02	OCT.2023	IFA	H.Ghadyani	M.Fakharian	S.Faramarzpour	
D03	SEP.2024	IFA	V.Amjadi	M.Fakharian	M. Sadeghian	

Class: 1 CLIENT Doc. Number:F0Z-708839

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:

تگهداشت 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
 پروژه

 BK
 GCS
 PEDCO
 120
 ME
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 0008
 D03



شماره صفحه: ۲ از ۸

REVISION RECORD SHEET

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3	<u>X</u>	X			
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نگهداشت و افزایش تولید میدان نفتی بینک

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک





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MECHANICAL DATA SHEETS FOR INSTRUMENT AIR RECEIVER

	شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدر ک	سريال	نسخه	
۱۸۶ – ۳۳		BK	GCS	PEDCO	120	ME	DT	8000	D03	

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General Notes

Rev

- 1. The Asterisk * denotes information and/or confirmation required from VENDOR.
- 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. and Specification For Lining Doc. No. BK-GNRAL-PEDCO-000-PI-SP-0007 respectively.
- 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.
- 11. Deleted
- 12. All material, corrosion allowance and their suitability for the process fluid at design pressure and temperature to be confirmed by vendor.
- 13. The vendor shall be responsible for mechanical strength of the equipment based on mentioned condition in data sheets.
- 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.
- 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).
- 24. Equipment packaging, preparation for shipment and delivery shall be in accordance with the project Minimum Requirements for Marking, Packing, Shipment & Storage' Document No. IPS-G-GN-210.
- 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
- 27. Deleted
- 28. Deleted
- 29. Two M12 earthing bosses shall be provided on vessel support. Material of Earthing Bosses shall be S.S. 316





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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

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پرو	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه

شماره پیمان: ٥٥٩ ۱۸۶ – ۲۷۰ – ۹۱۸۶ PEDCO ΒK GCS 120 ME DT 8000 D03

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General Notes (Cont'd)

Rev

- 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. 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.
- 34. 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.
- 36. Minimum requirement for pre-commissioning, commissioning, start up and two years operation and spare parts shall be in accordance with 🛭 document E&C-QC-SP-1.
- 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: 12
 - 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. The Vendor shall be fully responsible for the complete mechanical design, preparing calculation book and supply of the vessel.
- 42. All dimensions shown are in mm unless otherwise indicated. All nozzle sizes are in inch.



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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 INSTRUMENT AIR RECEIVER

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

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شماره صفحه: ٥ از ٨

Mechanical Data Sheets For Instrument	Air Receiver (V-2203) / sheet 1 of 4
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Rev			DATA S	SHEET		Rev			
	1		ment Air Receiver						
	2	Tag No. : V-220		Quantity : 1 Set		1			
	3	Type : Press	ure Vessel	D		1			
	4	Contento	Process	Design Data Corrosive / Erosive		ļ			
	5	Contents Operating Temp. (°C)	65	Liquid Flow (kg/h)		1			
	6 7	Operating Temp. (°C) Operating Press. (barg)	8	Vap. Molec. Weight (kg/kmol)					
	8	Gas Flow (kg/h)	8	Liquid Sp. Gravity					
	9	Liquid Viscosity (cP)		Service:	N/A				
	10	Liquid Viscosity (Ci)	Mechanica	I Design Data D03	IVA	ł			
	11	Design Temp. (°C)	85	Vessel Orientation	Vertical	†			
		Design Press. (barg)	12.5		nm) 300				
			Per Code & Spec Requirements	`	m ³)				
		Internal Vacuum (barg)	-	'	nm) N/A				
		In. Dia. of Shell (mm)	1500		nm) N/A	1			
		Tan/Tan Dim. (mm)	5000	Boot Head Type	N/A				
		Vessel Head Type	2:1 elliptical		nm) 1.6	1			
		Shell Wall Thk. (mm)	*	Joint Efficiency	0.7 (Skirt)/0.85 (Shell) / 1 (Head)	Ť			
	19	Head Wall Thk. (mm)	* (After forming)		°C)				
			Site Class: D, Code: ASCE 7-10	· ·		Ī			
D03	20	Seismic Design	Fa=1,FV=1.33,S1=0.46,Ss=1.125,I=1.25	MDMT (°C) 5				
		Wind Design	Speed: 232 Km/hr (Max.), Code: ASCE 7-10	Insulation Required	-	1			
	22			terials D03		ļ			
D 00	23	Code	ASME II / ASTM	Nozzle Necks:	1 100 C P				
		Shell / Heads	A 516 Gr. 70N	Pipes	A 106 Gr.B				
D03	25	Heads	A 516 Gr. 70N	Plates	A 516 Gr.70N	D03			
D 000	26	Lining / Cladding	Epoxy Coating	Forgings	A 105N	D03			
		Skirt (Top / Bottom)	A 516 Gr. 70N/A 283 Gr. C	Flanges	A 105N	D03			
		Platform Gratings	Hot Dip Galvanized C.S.	Fittings	A 234 Gr. WPB				
		Gaskets	Note 26	External Bolts	A 193 Gr. B7 (Note 8)				
D03	30	Lifting Lugs	A 516 Gr.70N / A 283 Gr. C	External Nuts	A 194 Gr.2H (Note 8)				
		Reinforcing Pads	A 516 Gr.70N	Internal Bolts / Nuts	S.S.				
		Ladder & Platform	C.S.	Name Plate	S.S. 316				
	33	M 1	REFERENCE STANL	DARDS & DOCUMENTS	: 1 IDC C ME 150				
		Mechanical Design Code	I		iv 1, IPS-G-ME-150				
		Specification for Pressure V	esseis		CO-000-ME-SP-0001	4			
		Process Basis of Design	~ (D0ID)	BK-GNRAL-PEDCO-000-PR-DB-0001 BK-GCS-PEDCO-120-PR-PI-0015					
		Piping & Instrument Diagram Specification for Painting	II (P&ID)	BK-GCS-PEDCO-120-PR-PI-0015 BK-GNRAL-PEDCO-000-PI-SP-0006					
		Specification for Insulation			CO-000-FI-SF-0000	-			
			equirements in Sour service		CO-000-FI-SF-0019	-			
	41	Specification For Material N	equirements in Sour service	BK-GNKAL-FED	CO-000-F1-SF-0008	ł			
	42		Fabrication and Ins	pection Requirements D03		ł			
	43	Inspection Authority	TPI & Client	pediloli reddirellicitis / D03		†			
	44	Material Certification	In Accordance with BS EN 10204:2004, 7	Type 3.1 Minimum for Pressure Conta	ining and Attachments	-			
	• •	material Commenter:	The transfer with the transfer of the transfer	The city is a summary of the summer of the summer of the summary o	Yes; Per Code & Spec. Requirements				
	45	Hydro Test Medium	Water	Hydro Test Procedure	&(IPS-GE-ME-150)	D03			
		D (M)	D. G. L. a. G. D	l DT					
	46	Post Weld Heat Treatment		PT	100%				
	47	MT	100 % on Lifting Lug Fillet Welds 100 % On T-Joints and Head Joint	UT	Yes; Per Code & Spec. Requirements				
	48 49	RT	/ *						
				Circumferential Joints Butt-Welds,	ID " W II				
				k Fabricated Nozzle Neck Longitudina					
	50	DT Panort		DT Papart		1			
	50 51	RT Report	Yes; Per Code & Spec. Requir.	PT Report	Yes; Per Code & Spec. Requirements				
	50 51 52	MT Report	Yes; Per Code & Spec. Requir. Yes; Per Code & Spec. Requir.	UT Report	Yes; Per Code & Spec. Requirements				
	50 51 52 53	MT Report Fabrication Quality Control	Yes; Per Code & Spec. Requir. Yes; Per Code & Spec. Requir. Plan (With Offer)	UT Report	Yes;Per Code & Spec. Requirements Yes				
	50 51 52 53 54	MT Report Fabrication Quality Control Welding Procedure Review	Yes; Per Code & Spec. Requir. Yes; Per Code & Spec. Requir. Plan (With Offer)	UT Report	Yes;Per Code & Spec. Requirements Yes Yes	-			
	50 51 52 53 54 55	MT Report Fabrication Quality Control	Yes; Per Code & Spec. Requir. Yes; Per Code & Spec. Requir. Plan (With Offer)	UT Report Specification for Painting Doc. No. BK-	Yes;Per Code & Spec. Requirements Yes Yes GNRAL-PEDCO-000-PI-SP-0006	- - - -			
	50 51 52 53 54 55 56	MT Report Fabrication Quality Control Welding Procedure Review	Yes; Per Code & Spec. Requir. Yes; Per Code & Spec. Requir. Plan (With Offer)	UT Report	Yes;Per Code & Spec. Requirements Yes Yes GNRAL-PEDCO-000-PI-SP-0006	- - - - -			
	50 51 52 53 54 55 56 57	MT Report Fabrication Quality Control Welding Procedure Review	Yes; Per Code & Spec. Requir. Yes; Per Code & Spec. Requir. Plan (With Offer)	UT Report Specification for Painting Doc. No. BK-	Yes;Per Code & Spec. Requirements Yes Yes GNRAL-PEDCO-000-PI-SP-0006	- - - - - -			
	50 51 52 53 54 55 56 57 58	MT Report Fabrication Quality Control Welding Procedure Review	Yes; Per Code & Spec. Requir. Yes; Per Code & Spec. Requir. Plan (With Offer)	UT Report Specification for Painting Doc. No. BK-	Yes;Per Code & Spec. Requirements Yes Yes GNRAL-PEDCO-000-PI-SP-0006	- - - - - -			
	50 51 52 53 54 55 56 57	MT Report Fabrication Quality Control Welding Procedure Review	Yes; Per Code & Spec. Requir. Yes; Per Code & Spec. Requir. Plan (With Offer)	UT Report Specification for Painting Doc. No. BK-	Yes;Per Code & Spec. Requirements Yes Yes GNRAL-PEDCO-000-PI-SP-0006	- - - - - - - -			



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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 INSTRUMENT AIR RECEIVER





شماره صفحه: ٦ از ٨

1				ACCES	SORIES	, NOZZLI	ES	LIST & LO	ADS @	BASE				
		0 ::			Acces	sories & A	Atta	chments (N	ote 25)					
2	Supporting Access La	g Saddles	atform			NO YES		Name Plate Name Plate	Bracket					YES YES
4	Insulation		AU OIIII			NO		Earthing Lug	(Note:	30)				YES
5	Insulation					NO	-	Tailing Lug						YES
6	Insulation					NO		Cathodic Pro		(Sacrifi	cial Anodes	s)		NO
7 8	Fireproofir Lifting Lug	ng Support				NO YES		Anchor Bolts Instrumentat						NO NO
9	Internal/ E	xternal Cli	ps			YES		Skid	10110					NO
10	Tamplate		L			YES	;	Support Clips	S					YES
11		Annhal-				NO		Vortex Break						NO
12 13			ainting)			YES YES		Rung & Grip Heating Coil						NO NO
14 15 16														
17 18						Nozzles	Lis	st (Note 1)						
19	Mark	Qty.	Des	cription		Pipe		F	Flange		Proj. (m		rcement	Remarks
20		_			Size	Thk.	Sch		Rate.	Face	(Note 32)	Thk.	O.D.	
21 22	A B	1		Inlet Outlet	2"			WN WN	#150 #150	RF RF	965* See DWG	!		
23	PSV	1		Safety Valve	2"			WN	#150	RF	965*			
24	V	1	T T	Vent	2"			WN	#150	RF	See DWG			
25	M P	1		nhole	24"			WN	#150	RF	1170 965	*	*	Note 7
26 27	D	1 1		ire Gauge Drain	2"			WN WN	#300 #150	RF RF	See DWG	!	1	
28	L 1,2	2		l Gauge	2"			WN	#300	RF	965			
29														
30 31	-													
31 32	-													
33														
34														
35 36														
]													
38 39 40 41 42 43 44 45	Load Co	ondition	Emp	pty Condition	Wind an			ds at Base *				Testing Co	ndition	
39 40 41 42 43 44 45			Emp Wax. Shear	pty Condition Max.	Wind an		Oper				Max.	Testing Co Max.	ndition	
39 40 41 42 43 44 45 46 47	M		Max. Shear @ Base	Max. Moment @	Weight	Max. Shea @ Base	Oper	rating Condition Max. Moment @	on Weigh	nt s	Max. Shear	Max. oment @		Weight
39 40 41 42 43 44 45 46 47 48	M T		Max. Shear	Max. Moment @ Base		Max. Shea	Oper	Max. Moment @ Base	on	nt @	Max. Shear D Base	Max. oment @ Base		Weight (Kg)
39 40 41 42 43 44 45 46 47 48 49 50	M Load T	Type	Max. Shear @ Base	Max. Moment @	Weight	Max. Shea @ Base	Oper	rating Condition Max. Moment @	on Weigh	nt @	Max. Shear	Max. oment @		-
39 40 41 42 43 44 45 46 47 48 50 51	Load T WINI	Type	Max. Shear @ Base	Max. Moment @ Base	Weight	Max. Shea @ Base	Oper	Max. Moment @ Base	on Weigh	nt @	Max. Shear D Base	Max. oment @ Base		-
39 40 41 42 43 44 45 46 47 48 49 50 51 52	Load T WINI	Type	Max. Shear @ Base	Max. Moment @ Base	Weight	Max. Shea @ Base	Oper	Max. Moment @ Base	on Weigh	nt @	Max. Shear D Base	Max. oment @ Base		_
39 40 41 42 43 44 45 46 47 48 50 51 52 56	Load T WINI	Type	Max. Shear @ Base	Max. Moment @ Base	Weight	Max. Shea @ Base	Oper	Max. Moment @ Base	on Weigh	nt @	Max. Shear D Base	Max. oment @ Base		-
39 40 41 42 43 44 45 46 47 48 49 50 51 55 56 57	Load T WINI	Type	Max. Shear @ Base	Max. Moment @ Base	Weight	Max. Shea @ Base	Oper	Max. Moment @ Base	on Weigh	nt @	Max. Shear D Base	Max. oment @ Base		-
39 40 41 42 43 44 45 46 47 48 49 50 51 55 56 57 58	Load T WINI SEISM	Type	Max. Shear @ Base	Max. Moment @ Base	Weight	Max. Shea @ Base	Oper	Max. Moment @ Base	on Weigh	nt @	Max. Shear D Base	Max. oment @ Base		-
39 40 41 42 43 44 45 46 47 48 49 51 55 55 55 57	Load T WINI SEISM	Type	Max. Shear @ Base	Max. Moment @ Base	Weight	Max. Shea @ Base	Oper	Max. Moment @ Base	on Weigh	nt @	Max. Shear D Base	Max. oment @ Base		-
39 40 41 42 43 44 45 46 47 48 49 55 56 57 58 59	Load T WINI SEISM	Type	Max. Shear @ Base	Max. Moment @ Base	Weight	Max. Shea @ Base	Oper	Max. Moment @ Base	on Weigh	nt @	Max. Shear D Base	Max. oment @ Base		-



THIRGAN ENSERGY

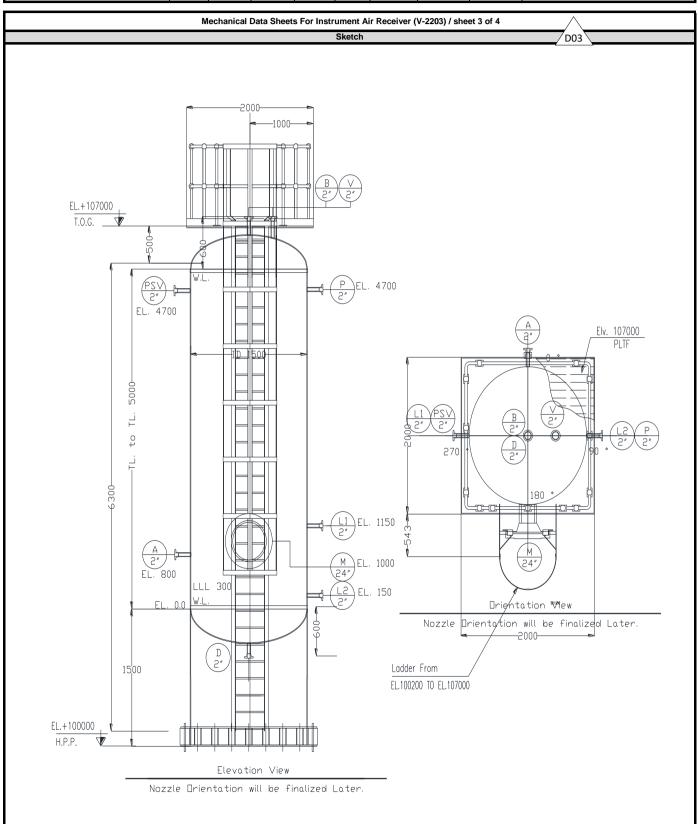
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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

MECHANICAL DATA	SHEETS FOR INSTRUMENT	AID DECEIVED

	شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدر ک	سريال	نسخه
٤٨١ ٩ - ٣٧٠ - ٣٥٠		BK	GCS	PEDCO	120	ME	DT	8000	D03

شماره صفحه: ۱ از ۸





احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

MECHANICAL DATA SHEETS FOR INSTRUMENT AIR RECEIVER



۱۸۶ – ۲۳۰ – ۲۰۰

 نسخه
 سریال
 نوع مدر ک
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 صادر کننده
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شماره صفحه: ۱ از ۸

			Mecha	nical Data	a Sheets For Instrument	Air Receiver	(V-2203) / she	et 4 of 4				
Rev.					WEIG	-IT					Rev.	
1107.	1 2 3 4		WEIGHT CONTF DATA SHEET SI UNIT *		WEIGH	1/1						
	5 6 7 8 9	Service : Type : No. trains : No. stages :	Instrument Air Receiv	er		Location : Bushehr (Binak Oilfield) Quotation No. : Serial No. :						
	10 11	Supplier : Manufacturer : Model :										
	14 15 16	Note: Information t	to be completed by equ	ipment v	vendor. Total wei	aht (ka) *						
	17 18 19 20	Fabrication	Erection		Operation	Hydrosta	tic Test	Remo	vable internal	Ladder & Platform		
	21 22 23			W	/EIGHT AND C OF (DATA RE	QUIRED *					
	24 25	CONDITION	WEIGHT ACCURACY		WEIGH (kg)	Ī	Х		TER OF GRAV	/ITY (mm)		
	26 27	Dry			(3/							
	28 29				1				ı			
	30 31				SKE	ТСН						
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	52	4) All life:	to be lead to to deal		NO	ES						
	55 56	2) Any spreader be	to be load tested and ceam to be load tested a plan for skid mounted c	ınd certi	ified. ent to be provided by	the Vendor						
	57 58 59 60											
	61 62 63											