



خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک (قرارداد BK-HD-GCS-CO-0008_03)



شماره پیمان:

.04 - .14 - 4114

	INSPECTION & TEST PLAN (ITP)								
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه		
BK	GCS	HY	120	QC	PR	0002	00		

شماره صفحه: ۱ از ۱۳

طرح نگهداشت و افزایش تولید ۲۷ مخزن

INSPECTION & TEST PLAN (ITP)

نگهداشت و افزایش تولید میدان نفتی بینک

00	OCT. 2021	IFC	Havayar Co.	Havayar Co.	Havayar Co.	
Rev.	Date	Purpose of Issue/Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

Class: 1

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





خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک (قرارداد BK-HD-GCS-CO-0008_03)



شماره پیمان:

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پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سر يال	نسخه
BK	GCS	HY	120	QC	PR	0002	00

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REVISION RECORD SHEET

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	INSPECTION & TEST PLAN (ITP)								
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه		
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خرید یکیج های کمپرسور گاز (رفت و برگشتی) بینک (قرارداد BK-HD-GCS-CO-0008_03)

شماره پیمان:

.04 - .14 - 4146

	INSPECTION & TEST PLAN (ITP)								
سخه سریال نوع مدرک رشته تسهیلات صادرکننده بسته کاری پروژه							نسخه		
BK	GCS	HY	120	Q	PR	0002	00		

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1.0 INTRODUCTION

Binak oilfield in Bushehr province is a part of the southern oilfields of Iran, is located 20 km northwest of Genaveh city.

With the aim of increasing production of oil from Binak oilfield, an EPC/EPD Project has been defined by NIOC/NISOC and awarded to Petro Iran Development Company (PEDCO). Also PEDCO (as General Contractor) has assigned the EPC-packages of the Project to "Hirgan Energy - Design and Inspection" JV.

GENERAL DEFINITION

The following terms shall be used in this document.

CLIENT: National Iranian South Oilfields Company (NISOC)

PROJECT: Binak Oilfield Development - General Facilities

EPD/EPC CONTRACTOR (GC): Petro Iran Development Company (PEDCO)

OWNER: OWNER is collectively refer to National Iranian South

Oil Company (NISOC) and Petro Iran Development

Company (PEDCO)

EPC CONTRACTOR: Joint Venture of: Hirgan Energy - Design &

Inspection(D&I) Companies

VENDOR: Havayar Company

EXECUTOR: Executor is the party which carries out all or part of

construction and/or commissioning for the project.

The firm appointed by EPD/EPC CONTRACTOR (GC) THIRD PARTY INSPECTOR (TPI):

and approved by CLIENT (in writing) for the inspection

of goods.

SHALL: Is used where a provision is mandatory.

SHOULD: Is used where a provision is advisory only.

WILL: Is normally used in connection with the action by

CLIENT rather than by an EPC/EPD CONTRACTOR,

supplier or VENDOR.

MAY: Is used where a provision is completely discretionary.





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سخه سریال نوع مدرک رشته تسهیلات صادرکننده بسته کاری پروژه							نسخه
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2.0 **SCOPE**

This document contains necessary inspection requirements for PROJECT Reciprocating Compressors.

3.0 **ABBREVIATIONS**

PIM Pre Inspection Meeting MOM Minutes of Meeting

FAT Factory Acceptance Test SAT Site Acceptance Test **MTC** Material Test Certificate ITP Inspection & Test Plan **NCR** Non Conformance Report

QC **Quality Control** MR Material Requisition

VPIS Vendor Print Index Schedule

DWG Drawing **APP** Approved Assy. Assembly **MFG** Manufacturing

NDT Non-Destructive Testing

WPS Welding Procedure Specification **WQT** Welder Qualification Test Report

GΑ General Arrangement

PQR Procedure Qualification Report

Ref. Reference STD Standard THK. **Thickness**

IRN: Inspection Release Note





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پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سر يال	نسخه							
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4.0 **DESCRIPTIONS**

H: (Hold Point)

Next operation is allowed only when test or inspection is accepted.

Vendor must notify contractor of the dedicated inspection activity at least 10 days in advance in accordance with IA. And the test must be performed in attendance of the inspectors; the vendor

shall not depart from this role unless specifically approved by contractor in writing.

W: (Witness Point)

Inspector's presence required, the inspection activity proceed if the involved parties does not attend in accordance with IA.

The vendor must notify contractor of the dedicated inspection activity at least 10 days in advance if the inspection parties don't elect to be present, the vendor may proceed with his own inspection provide and test records are made available to contractor for review

SW: (Spot Witness Point)

Inspector's presence required, the inspection activity proceed if the involved parties does not attend, the ratio of witness point is minimum 20%.

The vendor must notify contractor of the dedicated inspection schedule at least 14 days in advance in accordance with IA. if the inspection parties don't elect to be present, the vendor may proceed with his own inspection provide and test records are made available to contractor for review

R: (Review of Documents)

Check of certificate and/or documents with approved procedures, specification and acceptance criteria.

R/A: (Review and Approved of Documents)

Check and approve of certificate and/or documents with approved procedures, specification and acceptance criteria.





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	INSPECTION & TEST PLAN (ITP)												
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه						
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شماره صفحه: ۷ از ۱۳

5.0 ITP

ITP	2	Characteristic to		Reference		Extent	Participation		ipation	Ву	Remark							
No.	Part Name / Activity	Be Verified	Acceptance Criteria	Documents	Verifying Document	of Check	HY	TPI	HE/DI	Owner	Kemark							
1.A	PIM		Spec.	Spec.	ITP/MOM		Н	Н	Н	Н								
				1- Initial Documer	ntation													
1-1	Design & Drawing		Project SPEC		APP GA/P&ID		Н	R	R	R								
1-2	WPS – PQR		ASME SEC. IX		WPS-PQR		Н	R	R	R								
1-3	WQT		ASME SEC. IX		WQT		Н	R	R	R								
1-4	NDT Procedures (VT-PT)		ASME SEC. V		NDT Procedure		Н	R	R	R								
1-5	Other Vendor's Document (According to VPIS) Document Subject According to Client Approval		Project SPEC/MR/ STANDARD	According To Approved VPIS			н	R	R	R								
1-6	Consumable Material		STD.SPEC.	STD.SPEC.	REPORT		Н	R	R	R								
			2- To	est and Inspection	n Activities													
	2-1- [Bare-Block (Including	: Crank Case, Crank Sha	ft, Connecting Rod, Cyl	inder, Cylinder Liner, Cros	s Head, Pisto	n Rod	Pistor	Body)									
2-1-	Matarial Inspection	Chemical Comp. /	ASTM Code	Mfg Dwg	MILL Certificate		R	R	R	R								
1	Material Inspection	Mechanical Prop.	ASTIVI Code	Mfg. Dwg.	EN10204, type 3.1		ĸ	ĸ	ĸ	ĸ								
2-1- 2	NDE (P.T: All Machined Area)	Mechanical Integrity	ASTM E-165	App. Procedure	NDE Report		W	R	R	R	Cylinder							
			ASTM A-503								Crank Shaft,							
	` '	Mechanical	ASTM E-709	9 App. Procedure	NDE Report		W	R	R	R	Connecting Rod. Piston							
3		Machined Area)	Machined Area)	Machined Area)	Machined Area)	Machined Area)	Machined Area)	Machined Area)	Machined Area)	Integrity	ASME SA-388							





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	INSPECTION & TEST PLAN (ITP)												
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه						
BK	GCS	HY	120	QC	PR	0001	00						

شماره صفحه: ۸ از ۱۳

ITP Part Name / Activity		Characteristic to	Acceptance Criteria	Reference	Verifying Document	Extent		Partio	ipation I	Ву	Remark
No.	Part Name / Activity	Be Verified	Acceptance Criteria	Documents	vernying bocument	of Check	HY	TPI	HE/DI	Owner	Kemark
2-1- 4	Visual and Dimensional Inspection	Fidelity to Design/ Spec	Mfg. Dwg.	Mfg. Dwg.	Visual & Dimensional Inspection Report		W	R	R	R	
2-1- 5	Cylinder Helium Leak Test	Leakage	App. Procedure	App. Procedure	Test Report		W	R	R	R	
2-1- 6	Mechanical Run Test	1) Voltage & Current 2) Rotation Speed 3) Vibration Check 4) Temperature Check for Bearing	App. Procedure	App. Procedure	Test Report		Н	Н	Н	R	
2-1- 7	Bar-Over To Check Rod Runout	Top & Bottom Piston Clearance Check	App. Procedure	App. Procedure	Test Report		Н	Н	Н	R	
2-1- 8	Hydrostatic Test (Gas Side & Water Side)	Mechanical Strength	API Code & App. Procedure	App. Procedure	Pressure Test Report + Traceable Curve		W	R	R	R	For Cylinder
		2-2- Lub	rication/Cooling Syster	n (Including: Oil/Water	Pumps, Motors, Heaters,	Filters, Valve	es)				
2-2-	Material Inspection	Chemical Comp. / Mechanical Prop.	ASTM Code	App. Dwg.	Material Test/Material Certificate, Inspection report		R	R	R	R	
2-2- 2	Assembly Inspection	Component Integrity	Mfg. Dwg.	Mfg. Dwg.	Inspection Report		W	R	R	R	
2-2- 3	Visual and Dimensional Inspection	Fidelity to Design/ Spec	Mfg. Dwg.	Mfg. Dwg.	QC Report, Inspection report		W	R	R	R	
				2-3- Lube-Oil/Water	Cooler						





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پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه						
BK	GCS	HY	120	QC	PR	0001	00						

شماره صفحه: ۹ از ۱۳

ITP	Part Name / Activity	Characteristic to	Accontance Criteria	Reference	Verifying Document	Extent		Partic	ipation	Ву	Remark
No.	Part Name / Activity	Be Verified	Acceptance Criteria	Documents	vernying Document	of Check	HY	TPI	HE/DI	Owner	Remark
2-3-	Material Inspection	Chemical Comp. / Mechanical Prop.	ASTM Code	App. Dwg.	Material Certificate EN10204, type 3.1, Inspection report		R	W	R	R	
2-3- 2	Visual and Dimensional Inspection	Fidelity to Design/ Spec	App. Dwg.	App. Dwg.	QC Report, Inspection report		W	R	R	R	
2-3-	Magnetic Particle / PT Examination	Mechanical Integrity	ASTM E709	NDE Procedure/Weld Map	NDE Report, Inspection report		W	W	R	R	
2-3- 4	Radiographic Examination on Butt Weld	Mechanical Integrity	ASTM E94	NDE Procedure/Weld Map	NDE Report		W	R	R	R	
2-3- 5	Hydrostatic Test	Mechanical Strength	API Code & App. Procedure	App. Procedure	QC Report, Inspection report		W	Н	R	R	
2-3- 6	Painting inspection	Fidelity to Design/ Spec	Project specification	App. Procedure	QC Report		W	R	R	R	
			2	2-4- Suction/Discharge	Snubber						
2-4- 1	Material Inspection	Chemical Comp. / Mechanical Prop.	ASTM Code	App. Dwg.	Material Certificate		W	W	R	R	
2-4- 2	Weld Inspection	Mechanical Integrity	Project specification and ASME Sec. VIII	WPS/PQR	QC Report		W	R	R	R	
2-4- 3	Magnetic Particle /PT Examination	Mechanical Integrity	NDE Procedure + ASME Sec. VIII	NDE Procedure/Weld Map	NDE Report		W	W	R	R	





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	INSPECTION & TEST PLAN (ITP)													
پروژه	بسته کاری	صادر كننده	تسهيلات	رشته	نوع مدرك	سر يال	نسخه							
BK	GCS	HY	120	QC	PR	0001	00							

شماره صفحه: ۱۰ از ۱۳

ITP	Part Name / Activity	Characteristic to	Acceptance Criteria	Reference	Verifying Document	Extent		Partio	ipation	Ву	Remark
No.	Part Name / Activity	Be Verified	Acceptance Criteria	Documents	vernying bocument	of Check	HY	TPI	HE/DI	Owner	Kemark
2-4- 4	Radiographic Examination	Mechanical Integrity	ASTM E94 + ASME Sec. VIII	NDE Procedure/Weld Map	NDE Report		W	R	R	R	
2-4- 5	Visual and Dimensional Inspection	Fidelity to Design/ Spec	App. Dwg.	App. Dwg.	QC Report		8	R	R	R	
2-4- 6	Hydrostatic Test	Mechanical Strength	API Code & App. Procedure + ASME Sec. VIII	App. Procedure	QC Report		8	Н	R	R	
2-4- 7	Painting inspection	Fidelity to Design/ Spec	Project specification	App. Procedure	QC Report		W	R	R	R	
				2-5- Instrument	is						
2-5- 1	Material Inspection	Chemical Comp. / Mechanical Prop.	ASME or ASTM Code	App. Dwg.	Material Certificate		R	R	R	R	
2-5- 2	Calibration Check	Adequate Performance	Project specification	Project specification	Calibration Certificate, Inspection report		W	R	R	R	
2-5- 3	Tag & Model No & specification Check	Fidelity to Design/ Spec	App. Data Sheet & Dwg.	App. Data Sheet	QC Report, Inspection report		W	R	R	R	
				2-6- Cables and W	ires						
2-6- 1	Visual Inspection	Fidelity to Design/ Spec	Project Spec.	App. Data sheet	QC Report		W	R	R	R	
2-6- 2	Test report, Type test Certificate, Manufacturer Declaration review	Adequate Performance	IEC60502	App. Data sheet	Type Certificate/ test report		R	R	R	R	





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پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه							
BK	GCS	HY	120	QC	PR	0001	00							

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ITP	Part Name / Activity	Name / Activity Characteristic to Acceptance Criteria Reference Verifying Document		Varifying Document	Extent		Partic	ipation I	Ву	Remark	
No.	Part Name / Activity	Be Verified	Acceptance Criteria	Documents	vernying bocument	of Check	HY	TPI	HE/DI	Owner	Remark
				2-7- Junction Bo	x						
2-7- 1	Visual Inspection, accessories check	Fidelity to Design/ Spec	App. Dwg. + App. Data Sheet	App. Dwg. + App. Data Sheet	QC Report		W	R	R	R	
2-7- 2	Tag & Model No. Check	Fidelity to Design/ Spec	App. Dwg. + App. Data Sheet	App. Dwg. + App. Data Sheet	QC Report		W	R	R	R	
2-7- 3	Review IP, ATEX certificate	Fidelity to Design/ Spec	IEC60529, IEC60079	App. Dwg. + App. Data Sheet	QC Report		R	R	R	R	
				2-8- Electromote	or						
2-8- 1	Visual Inspection	Fidelity to Design/ Spec	Manufacture Data Sheet	Manufacture Data Sheet and Drawing	QC Report		W	R	R	R	
2-8-	Dimensional Check	Fidelity to Design/ Spec	Manufacture Drawing	Manufacture Drawing	QC Report		W	R	R	R	
2-8- 3	Type test certificate, IP, ATEX certificate, Routine tests report Review	Adequate Performance	IEC60529, IEC60079, IEC60034	Project Specification and Manufacture standard	Certificate / Manufacturer test report		R	R	R	R	
2-8- 4	Packing inspection and painting	Fidelity to Design/ Spec	Project Specification	Project Specification and Manufacture standard	QC Report		W	R	R	R	
				2-9- Local Switch P	anel						
2-9- 1	Visual Inspection	Fidelity to Design/ Spec	Manufacture Data Sheet	Manufacture Data Sheet and Drawing	QC Report, Inspection report		W	W	R	R	





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BK	GCS	HY	120	QC	PR	0001	00							

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ITP	Bank Nama / Aaki ii	Characteristic to		Reference	Varificia - Danson	Extent	Participation By			Dawa ada	
No.	Part Name / Activity	Be Verified	Acceptance Criteria	Documents	Verifying Document	of Check	HY	TPI	HE/DI	Owner	Remark
2-9- 2	Dimensional Check	Fidelity to Design/ Spec	Manufacture Drawing	Manufacture Drawing	QC Report, Inspection report		W	R	R	R	
	2-10- Control Panel (Indoor-Safe Area)										
2- 10-1	Visual Inspection	Fidelity to Design/ Spec	Manufacture Data Sheet	Manufacture Data Sheet and Drawing	QC Report, Inspection report		W	W	R	R	
2- 10-2	Function test (Power and start-up check, I/O check)	Adequate Performance	Project Spec	Project Spec.	QC Report, Inspection report		W	Н	R	R	
2- 10-3	Main equipment certificate, IP, ATEX, SIL certificate Review	Fidelity to Design/ Spec	IEC60529, IEC60079, IEC60034	Project Specification and Manufacture standard	QC Report, Inspection report	-	R	R	R	R	
	2-11- Valves										
2- 11-1	Material Inspection	Chemical Comp. / Mechanical Prop.	ASTM Code	App. Dwg. + App. Data Sheet	Material Certificate		R	R	R	R	
2- 11-2	Visual and Dimensional Inspection	Fidelity to Design/ Spec	App. Dwg.	App. Dwg.	QC Report		W	R	R	R	
2-12- Strainers											
2- 12-1	Material Inspection	Chemical Comp. / Mechanical Prop.	ASTM Code	App. Dwg. + App. Data Sheet	Material Certificate		R	R	R	R	
2- 12-2	Hydro Test	Mechanical Strength	Project Spec.	Project Spec.	Test Report		W	R	R	R	





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شماره صفحه: ۱۳ از ۱۳

ITP	Bank Nama / Aakinika	Characteristic to	A	Reference	Varifica Danimant	Extent of Check	Participation By				D
No.	Part Name / Activity	Be Verified	Acceptance Criteria	Documents	Verifying Document		HY	TPI	HE/DI	Owner	Remark
2- 12-3	Visual and Dimensional Inspection	Fidelity to Design/ Spec	App. Dwg.	App. Dwg.	QC Report		W	R	R	R	
2-13- Piping Items											
2- 13-1	Material Inspection	Chemical Comp. / Mechanical Prop.	ASTM Code	App. Procedure	Material Certificate		R	W	R	R	
2- 13-2	NDTs	Mechanical Integrity	Approved Procedure	ASTM Code & Approved Procedure	NDE Report		W	R	R	R	
2- 13-3	Hydrostatic Test	Mechanical Strength	Approved Procedure	Approved Procedure	Test Report		W	R	R	R	
2- 13-4	Visual Inspection	Fidelity to Design/ Spec	App. Dwg.	App. Dwg.	QC Report		W	W	R	R	
	2-14- Compressor assembly										
2- 14-1	Assembly Inspection	Component Integrity	App. DWG	App. DWG	Inspection Report		8	W	W	R	
2- 14-2	Final Visual and Dimensional Inspection	Fidelity to Design/ Spec	App. DWG	App. DWG	Inspection Report		W	w	W	R	
2- 14-3	Painting Inspection	Fidelity to Design/ Spec	Project specification	App. Procedure	Test Report		W	R	R	R	