

  	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض			 NISOC
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INSPECTION & TEST PLAN (ITP)

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Abbreviation Table						
H	Hold Point	W	Witness			
SW	Spot witness	R	Review			
M	Monitor	RA	Review and Approved			

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NO.	DESCRIPTION OF INSPECTION / TEST	APPLICABLE SPEC. OR PROCEDURE	REPORTING FORMAT	PARTICIPATION BY			REMARK
				Vendor	TPI	Contractor	
1	MECHANICAL AND VISUAL CHECKS						
1.1	Check Of The Quantity And Type Of Materials	Material Take off	FAT Reports	H	SW	H	
1.2	Check Of Panels & Accessories Specifications - External Dimension, Thickness And Material Checks - Mechanical Operation - Check Of IP - Painting -Name Plates - External Dimensions - Mechanical Operation - Mechanical Protection Degree - Paintings & Colors - Name Plates	Control Panel Layout	FAT Report	H	SW	SW	
1.3	Check Of Components Arrangement, Accessibility & Maintenance Work Space	Control Panel Layout	FAT Report	H	SW	SW	
1.4	Check Of Spare Space	Control Panel Layout	FAT Report	H	SW	SW	
1.5	Check Of Wiring Of Terminals And Relevant Numbering	Control Panel Layout	FAT Report	H	SW	SW	
1.6	Checks of Panel Utilities	Control Panel Layout	FAT Report	H	SW	SW	

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2	CHECK OF CONTROL SYSTEM ARCHITECTURE						
2.1	Physical And Structural Check Of Network Architecture - Industrial Ethernet Network Between Ethernet Module (Cp443) And - Operator & Engineering Work Stations (Cp1613) - Links Between Engineering Station & Alarm Printer - Profibus Network Between, I/O Interface Modules (IM153-2) And CPU'S. - Synchronizer Networks Between Two CPU Via Optic Cables - Scada Check	FAT Procedure	FAT Reports	H	W	W	
2.2	Check Of The Redundant Components - Check Of Power Supply Redundancy - Check Of Redundant CPU'S - Check Of Redundant I/O Buses - Check Of Redundant Networks And Links	FAT Procedure	FAT Report	H	W	W	

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2.3	CPU Load Check - CPU Memory Load Check - CPU Scan Time Check	FAT Procedure	FAT Report	H	W	W	
3	CHECK OF HARDWARE AND SOFTWARE						
3.1	Check Of Power - Check Of Power Distribution - Grounding Circuit Check - Check Of Power Supplies	FAT Procedure	FAT Reports	H	W	W	
3.2	IO Check - Digital Input/Output Test - Analog Input/Output Test	FAT Procedure	FAT Report	H	W	W	
3.3	Hardware Diagnostic	FAT Procedure	FAT Report	H			
3.4	Network & Links Function Check: - I/O Bus - Control System Bus - Event/Alarm Printer Link - Trend / Report Printer Link - Synchronizer Links Between Cpus	FAT Procedure	FAT Report	H	W	W	

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3.5	Check Of HMI Graphic Display Pages	FAT Procedure	FAT Report	H	M	M	
3.6	Check Of Program And Configuration - Operation Of Tank'S Inlet/ Outlet - Operation Of Pumps - Operation Of ESD - Operation Of MCC	FAT Procedure	FAT Report	H	W	W	
4			Inspection Report	H	W	W	
5	Packing & Marking Inspection		Inspection Report	H	W	W	
6	Shipping Release Note Issuance	Inspection Report		H	W	W	
7	Final Documentation	Project Specs	Final Data Book	H	R	RA	