

ITP FOR TELECOM MATERIAL

Document No.:

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Unit-Sub Unit

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INSPECTION AND TEST PLAN (ITP NO. 020)

COMMODITY: TELECOM MATERIAL, FIBER OPTIC CABLE

01

No.	Quality Related Activity	Applicable Document	Reporting/ Document	Vendor	Client /MC	TPA	Remark
1	Pre-Inspection Meeting	PIM Agenda, PO, MR	MOM	H	H	<u>H</u>	
2	Raw Material/Part List	Manufacture's Catalogue	Test Certificates	H	R	<u>H</u>	
3	Visual, Dimension Brand & Quantity Check		Report	H	<u>W</u>	H	
4	Manufacturer Test Reports		Report	H	R	R	
5	Type Test Certificates		Report	H	R	<u>H</u>	
6	Routine Tests		Report	H	W	H	
7	Manufacture's Certificate of Compliance		MCC	H	<u>H</u>	R	
<u>8</u>	<u>Spare Part List</u>	<u> </u>	<u>Packing List</u>	<u>H</u>	<u>W</u>	<u>H</u>	
9	Packing & Marking Check		Packing List	H	W	H	
10	Final Book		FDB	H	R	H	
11	Issuance of IRN	Signed Packing List	IRN	R	R	H	

ITP FOR TELECOM MATERIAL

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INSPECTION AND TEST PLAN (ITP NO. 040)

COMMODITY: TELECOM MATERIAL, PUBLIC ADDRESS/GENERAL ALARM (PA/GA) EQUIPMENT

01

No.	Quality Related Activity	Applicable Document	Reporting/ Document	Vendor	Client /MC	TPA	Remark
1	Pre-Inspection Meeting	PIM Agenda, PO, MR	MOM	H	H	<u>H</u>	
2	Raw Material/Part List	Manufacture's Catalogue	Test Certificates	H	R	<u>H</u>	
3	Visual, Dimension Brand & Quantity Check		Report	H	<u>W</u>	H	
4	Manufacturer Test Reports		Report	H	R	R	
5	Type Test Certificates		Report	H	R	<u>H</u>	
6	Function Test		Report	H	W	H	
7	Manufacture's Certificate of Compliance		MCC	H	<u>H</u>	R	
<u>8</u>	<u>Spare Part List</u>	<u> </u>	<u>Packing List</u>	<u>H</u>	<u>W</u>	<u>H</u>	
9	Packing & Marking Check		Packing List	H	W	H	
10	Final Book		<i>FDB</i>	H	R	H	
11	Issuance of IRN	Signed Packing List	<i>IRN</i>	R	R	H	

ITP FOR TELECOM MATERIAL

Document No.:

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INSPECTION AND TEST PLAN (ITP NO. 060)

COMMODITY: TELECOM MATERIAL, TELECOMMUNICATION CABLES

01

No.	Quality Related Activity	Applicable Document	Reporting/ Document	Vendor	Client /MC	TPA	Remark
1	Pre-Inspection Meeting	PIM Agenda, PO, MR	MOM	H	H	<u>H</u>	
2	Raw Material/Part List	Manufacture's Catalogue	Test Certificates	H	R	<u>H</u>	
3	Visual, Dimension Brand & Quantity Check		Report	H	<u>W</u>	H	
4	Manufacturer Test Reports		Report	H	R	R	
5	Type Test Certificates		Report	H	R	<u>H</u>	
6	Routine Test		Report	H	W	H	
7	Manufacture's Certificate of Compliance		MCC	H	<u>H</u>	R	
<u>8</u>	<u>Spare Part List</u>		<u>Packing List</u>	<u>H</u>	<u>W</u>	<u>H</u>	
9	Packing & Marking Check		Packing List	H	W	H	
10	Final Book		FDB	H	R	H	
11	Issuance of IRN	Signed Packing List	IRN	R	R	H	

EPC/EPD CONTRACTOR:   VENDOR/SUPPLIER:  	Sulabedar Oil Field Development Project Construction Oil Booster Cluster and Separation Unit for Sulabedar Oil Field	CLIENT:  NISOC																
Contract No.: 053-073-9187	Inspection And Test Plan (ITP) For VHF Radio System <table border="1"> <tr> <th>Project Code</th> <th>Work Package</th> <th>VENDOR/SUPPLIER</th> <th>Discipline</th> <th>Equipment Name</th> <th>Type</th> <th>Sequence No.</th> <th>Rev.</th> </tr> <tr> <td>SR</td> <td>05</td> <td>AG</td> <td>QC</td> <td>VHF</td> <td>IP</td> <td>0010</td> <td>F00</td> </tr> </table>	Project Code	Work Package	VENDOR/SUPPLIER	Discipline	Equipment Name	Type	Sequence No.	Rev.	SR	05	AG	QC	VHF	IP	0010	F00	Page No. : 1 of 12
Project Code	Work Package	VENDOR/SUPPLIER	Discipline	Equipment Name	Type	Sequence No.	Rev.											
SR	05	AG	QC	VHF	IP	0010	F00											

Inspection And Test Plan (ITP) For VHF Radio System

 	Sulabedar Oil Field Development Project	FA Final Approved
Project No. : 971021	Issued by: MK ☒ OEID ☐ Name: H.Rezaei	
Contract No. : 053-073-9187	Date: Sign: 	

F00	16-NOV-2024	Final Approved	A.F.	O.J.M.	M.A.A.	
V00	14-JUL-2024	Issued for Comment	A.F.	O.J.M.	M.A.A.	AP
Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	Client Approval

EPC/EPD CONTRACTOR:  	Sulabedar Oil Field Development Project Construction Oil Booster Cluster and Separation Unit for Sulabedar Oil Field	CLIENT:  NISOC																
VENDOR/SUPPLIER:  		Inspection And Test Plan (ITP) For VHF Radio System <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Project Code</th> <th>Work Package</th> <th>VENDOR/SUPPLIER</th> <th>Discipline</th> <th>Equipment Name</th> <th>Type</th> <th>Sequence No.</th> <th>Rev.</th> </tr> <tr> <td>SR</td> <td>05</td> <td>AG</td> <td>QC</td> <td>VHF</td> <td>IP</td> <td>0010</td> <td>F00</td> </tr> </table>	Project Code	Work Package	VENDOR/SUPPLIER	Discipline	Equipment Name	Type	Sequence No.	Rev.	SR	05	AG	QC	VHF	IP	0010	F00
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SR	05	AG	QC	VHF	IP	0010	F00											
Contract No.: 053-073-9187																		

Tabulation of Revised Pages

SHEET	REVISIONS								SHEET	REVISIONS							
	V00	F00								D00							
1	X	X							51								
2	X	X							52								
3	X								53								
4	X								54								
5	X								55								
6	X								56								
7	X								57								
8	X								58								
9	X								59								
10	X								60								
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EPC/EPD CONTRACTOR:  	Sulabedar Oil Field Development Project Construction Oil Booster Cluster and Separation Unit for Sulabedar Oil Field	CLIENT:  NISOC																								
VENDOR/SUPPLIER:  																										
Contract No.: 053-073-9187	<table border="1"> <tr> <th align="center" colspan="8">Inspection And Test Plan (ITP) For VHF Radio System</th></tr> <tr> <th align="center">Project Code</th><th align="center">Work Package</th><th align="center">VENDOR/SUPPLIER</th><th align="center">Discipline</th><th align="center">Equipment Name</th><th align="center">Type</th><th align="center">Sequence No.</th><th align="center">Rev.</th></tr> <tr> <td align="center">SR</td><td align="center">05</td><td align="center">AG</td><td align="center">QC</td><td align="center">VHF</td><td align="center">IP</td><td align="center">0010</td><td align="center">F00</td></tr> </table>	Inspection And Test Plan (ITP) For VHF Radio System								Project Code	Work Package	VENDOR/SUPPLIER	Discipline	Equipment Name	Type	Sequence No.	Rev.	SR	05	AG	QC	VHF	IP	0010	F00	Page No. : 3 of 12
Inspection And Test Plan (ITP) For VHF Radio System																										
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SR	05	AG	QC	VHF	IP	0010	F00																			

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EPC/EPD CONTRACTOR:  OEID Smart&Agile  گسترش مارون کاران	Sulabedar Oil Field Development Project Construction Oil Booster Cluster and Separation Unit for Sulabedar Oil Field	CLIENT:  NISOC																
VENDOR/SUPPLIER:  BGK INDUSTRIAL GROUP  گروه صنعتی پهن گسترش کبان																		
Contract No.: 053-073-9187	Inspection And Test Plan (ITP) For VHF Radio System <table><tr><th>Project Code</th><th>Work Package</th><th>VENDOR/SUPPLIER</th><th>Discipline</th><th>Equipment Name</th><th>Type</th><th>Sequence No.</th><th>Rev.</th></tr><tr><td>SR</td><td>05</td><td>AG</td><td>QC</td><td>VHF</td><td>IP</td><td>0010</td><td>F00</td></tr></table>	Project Code	Work Package	VENDOR/SUPPLIER	Discipline	Equipment Name	Type	Sequence No.	Rev.	SR	05	AG	QC	VHF	IP	0010	F00	Page No. : 4 of 12
Project Code	Work Package	VENDOR/SUPPLIER	Discipline	Equipment Name	Type	Sequence No.	Rev.											
SR	05	AG	QC	VHF	IP	0010	F00											

1 Introduction

1.1 Project Description

National Iranian south oil company (NISOC) plans to fulfill an integrated project which includes several sub-projects to maintain and increase its production up to 10000 BPD of "SULABEDAR" oilfield which is located in GACHSARAN Area. The Project Consist of Several Sub-Project As Below:

Scope	Work Package NO.	Work Package Code	Work Package Description
EPC	00	General	General Documents
	05	BCSR	Construction Oil Booster Cluster and Separation Unit for Sulabedar Oil Field
	06	GPL8	Construction 8" Gas Transmission UG Pipeline from Sulabedar to Bibi Hakimeh1
	07	CCTV	Construction and Installation of CCTV System for Bibi Hakimeh1

1.2 Scope of Work Package

EPC work package 05, covers required activities for Construction Oil Booster Cluster and Separation Unit for Sulabedar Oil Field.

2 Purpose

2.1 Definition

PROJECT	Sulabedar Oil Field Development Project
WORK PACKAGE	05- BCSR
CLIENT	National Iranian South Oilfields Company (NISOC)
GENERAL CONTRACTOR	OEID / Maroon Karan Company (MK)
EPC CONTRACTOR	Maroon Karan Company (MK)
EPC SUB-CONTRACTOR	The organization engaged by the CONTRACTOR to perform the EPC works in the PLANT / SITE.
SUB-CONTRACTOR	Bahman Gostaresh Kian Industrial Group (BGK)

EPC/EPD CONTRACTOR:  	Sulabedar Oil Field Development Project Construction Oil Booster Cluster and Separation Unit for Sulabedar Oil Field	CLIENT:  NISOC																								
VENDOR/SUPPLIER:  																										
Contract No.: 053-073-9187	<table border="1"> <tr> <th align="center" colspan="8">Inspection And Test Plan (ITP) For VHF Radio System</th></tr> <tr> <th align="center">Project Code</th><th align="center">Work Package</th><th align="center">VENDOR/SUPPLIER</th><th align="center">Discipline</th><th align="center">Equipment Name</th><th align="center">Type</th><th align="center">Sequence No.</th><th align="center">Rev.</th></tr> <tr> <td align="center">SR</td><td align="center">05</td><td align="center">AG</td><td align="center">QC</td><td align="center">VHF</td><td align="center">IP</td><td align="center">0010</td><td align="center">F00</td></tr> </table>	Inspection And Test Plan (ITP) For VHF Radio System								Project Code	Work Package	VENDOR/SUPPLIER	Discipline	Equipment Name	Type	Sequence No.	Rev.	SR	05	AG	QC	VHF	IP	0010	F00	Page No. : 5 of 12
Inspection And Test Plan (ITP) For VHF Radio System																										
Project Code	Work Package	VENDOR/SUPPLIER	Discipline	Equipment Name	Type	Sequence No.	Rev.																			
SR	05	AG	QC	VHF	IP	0010	F00																			

VENDOR/SUPPLIER	Amn Gostaran Hadi (AG)
GOODS	Any and all Equipment, Machinery, Apparatus, Material and other GOODS as described in general condition of Contract.
WILL	Is normally used in connection with the action by the client rather than by a consultant, Supplier or Vendor.
MAY	Is used where a provision is completely discretionary.
SHOULD	Is used where a provision is advisory only.
SHALL	Is used where a provision is mandatory.

3 Reference Documents

In case of discrepancies are found between project documents, codes, standards, and Company the following order of precedence shall apply:

- * IPS Standards
- * Project documents (Data Sheets, Drawings, Specifications, ...)
- * International codes and standards

4 Abbreviations

ITP: Inspection and Test Plan
MR: Material Requisition
PO: Purchase Order
KOM: Kick of Meeting
PIM: Pre-Inspection Meeting
TPA: Third Party Agency
IRN: Inspection Release Note
SRN: Shipping Release Note
MCC: Manufacturer compliance Certificate
MOM: Minutes of Meeting

EPC/EPD CONTRACTOR:  	Sulabedar Oil Field Development Project Construction Oil Booster Cluster and Separation Unit for Sulabedar Oil Field	CLIENT:  NISOC																								
VENDOR/SUPPLIER:  																										
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Inspection And Test Plan (ITP) For VHF Radio System																										
Project Code	Work Package	VENDOR/SUPPLIER	Discipline	Equipment Name	Type	Sequence No.	Rev.																			
SR	05	AG	QC	VHF	IP	0010	F00																			

Hold (H): Hold point is a designate point during or following specific activities which are defined in ITP and which inspection or examination shall not proceed unless the designate parties have witnessed the inspection or examination or test.

TPA shall sign and stamp all related reports as HOLD POINT, and results all activates shall be specified clearly by term Accepted / Rejected.

Vendor/Contractor shall be informed other party at least 7 working day prior to subject action.

Witness (W): Witness point is a designate point during or following an important activity at which inspection or examination is required in according with the relative procedures. Work may proceed through the designate witness point if the inspector is not present for the previously established activity.

TPA shall sign and stamp all related reports as "Witnessed by TPA" and results all activates shall be specified clearly by term Accepted / Rejected.

Vendor/Contractor shall be informed other party at least 3 working day prior to subject action.

Review(R): It is proceed though reviewing any result of inspection or test as a method of ensuring that the inspecting of test is performed in accordance with any approved procedure, specification or acceptance criteria. Inspection result shall review, but presence of involved party at inspection time is not mandatory, all documents shall be sign and stamp as reviewed and results all activates shall be specified clearly by term Accepted / Rejected. Also TPA shall be Reviewed document in 7 days.

Review and Approved (RA): RA means that documents reviewed by involved party shall be signed and Stamped as reviewed and approved. Where a document is subjected to party approval, work shall not proceed until related party approved is obtained.

Monitor (M) or Spot witness (SW): Include a wide variety of action taken by charge person to inspect, check, control of activities and their sequence by means of observation, information collection, and verbal instruction; verify the routing and supporting documents for the purpose of proper expedition. Any non-conformity found

EPC/EPD CONTRACTOR:  	Sulabedar Oil Field Development Project Construction Oil Booster Cluster and Separation Unit for Sulabedar Oil Field	CLIENT:  NISOC																								
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Inspection And Test Plan (ITP) For VHF Radio System																										
Project Code	Work Package	VENDOR/SUPPLIER	Discipline	Equipment Name	Type	Sequence No.	Rev.																			
SR	05	AG	QC	VHF	IP	0010	F00																			

during above mentioned inspection by TPA shall be reported to SUPPLIER and CONTRACTOR/PURCHASER and COMPANY immediately.

5 Site Condition

Certain environmental is necessary to ensure proper operation of cable and equipment in their intended applications. It is intended that the storage, installation and operation of standard equipment and cable shall be met the project requirement

6 Language and Units

English language shall be used in all documents and drawings. International system of units (SI) shall be used, except for the units of piping size, temperature and pressure, which shall be in inch, degrees Celsius and Bar respectively.

7 INSPECTION REQUIREMENTS

7.1. All items and their materials shall be inspected according to CONTRACTOR/PURCHASER's requirements. However, the acceptance of any work and/or release of the material/equipment by the CONTRACTOR/PURCHASER shall in no way relieve the supplier of any responsibility for carrying out all the provisions of the applicable codes, standards and the specification.

7.2 Inspectors or representatives shall have free access to all shops of the supplier or subsupplier.

7.3 For minimum inspection points, see following table of this Inspection and Test Plan.

EPC/EPD CONTRACTOR:  	Sulabedar Oil Field Development Project Construction Oil Booster Cluster and Separation Unit for Sulabedar Oil Field								CLIENT:  NISOC																
VENDOR/SUPPLIER:  																									
Contract No.: 053-073-9187	Inspection And Test Plan (ITP) For VHF Radio System <table border="1"> <thead> <tr> <th>Project Code</th> <th>Work Package</th> <th>VENDOR/SUPPLIER</th> <th>Discipline</th> <th>Equipment Name</th> <th>Type</th> <th>Sequence No.</th> <th>Rev.</th> </tr> </thead> <tbody> <tr> <td>SR</td> <td>05</td> <td>AG</td> <td>QC</td> <td>VHF</td> <td>IP</td> <td>0010</td> <td>F00</td> </tr> </tbody> </table>								Project Code	Work Package	VENDOR/SUPPLIER	Discipline	Equipment Name	Type	Sequence No.	Rev.	SR	05	AG	QC	VHF	IP	0010	F00	Page No. : 8 of 12
Project Code	Work Package	VENDOR/SUPPLIER	Discipline	Equipment Name	Type	Sequence No.	Rev.																		
SR	05	AG	QC	VHF	IP	0010	F00																		

8 Inspection and test plan

ITP for each item will be prepared by manufacturer & submitted via Contractor for Company's review only when the manufacturer is defined/PO is placed. Also each ITP related to each item will be finalized prior to PIM and when all the engineering documents are completed /finalized.

EPC/EPD CONTRACTOR:  		Sulabedar Oil Field Development Project Construction Oil Booster Cluster and Separation Unit for Sulabedar Oil Field				CLIENT:  NISOC		
VENDOR/SUPPLIER:  						Contract No.: 053-073-9187		Inspection And Test Plan (ITP) For VHF Radio System
Project Code	Work Package	VENDOR/SUPPLIER	Discipline	Equipment Name	Type	Sequence No.	Rev.	
SR	05	AG	QC	VHF	IP	0010	F00	

Row	Activities	Reference Documents	Acceptance Criteria	Frequency of test	Verifying Document	Action				Remark
						AG	MK	TPA	NISOC	
A	Pre-Inspection Meeting (PIM)	Project Specification	---	--	MOM	H	H	H	H	--
1-Docuemt Review										
1-1	Engineering Documents And Data Sheet	Project Specification	Project Specification	100%	Final Engineering Documents	H	RA	R	RA	--
1-2	Factory & Site Acceptance Test (FAT&SAT) Procedure	Project Specification	--	--	Test Procedure	H	RA	R	RA	--
1-3	Packing and Marking Procedure	Project Specification	--	--	Packing & Marking Procedure	H	RA	R	R	--

EPC/EPD CONTRACTOR:  		Sulabedar Oil Field Development Project Construction Oil Booster Cluster and Separation Unit for Sulabedar Oil Field				CLIENT:  NISOC	
VENDOR/SUPPLIER:  						Contract No.: 053-073-9187	
Project Code	Work Package	VENDOR/SUPPLIER	Discipline	Equipment Name	Type	Sequence No.	Rev.
SR	05	AG	QC	VHF	IP	0010	F00

Row	Activities	Reference Documents	Acceptance Criteria	Frequency of test	Verifying Document	Action				Remark
						AG	MK	TPA	NISOC	
2- Tower & Accessories										
2-1	Raw material Certificate check Visual and dimensional inspection	DWG & BOM	APP DWG & BOM	100%	Certificate	H	W	W	R	
2.2	Coating Inspection (Thickness & Adhesion)	DMD	DMD	20%	Test Report	H	W	W	R	
2-3	Quantity and packing & Marking Inspection	BOM/ / Packing Procedure	BOM/ / Packing Procedure	100%	IRN/SRN/ TPA Test Report	H	W	W	R	

EPC/EPD CONTRACTOR:  		Sulabedar Oil Field Development Project Construction Oil Booster Cluster and Separation Unit for Sulabedar Oil Field				CLIENT:  NISOC	
VENDOR/SUPPLIER:  						Contract No.: 053-073-9187	
Project Code	Work Package	VENDOR/SUPPLIER	Discipline	Equipment Name	Type	Sequence No.	Rev.
SR	05	AG	QC	VHF	IP	0010	F00

Row	Activities	Reference Documents	Acceptance Criteria	Frequency of test	Verifying Document	Action				Remark
						AG	MK	TPA	NISOC	
3- VHF Radio										
3-1	Cabinet Inspection: Visual Dimensional Panting IP certificate Check	Data Sheet GA BOM	Data Sheet GA BOM	100%	TPA Test Reports	H	W	W	R	
3-2	FAT (Functional Test before Fabrication)	FAT Procedure	FAT Procedure	100%	TPA Test Report	H	H	W	R	

EPC/EPD CONTRACTOR:  		Sulabedar Oil Field Development Project Construction Oil Booster Cluster and Separation Unit for Sulabedar Oil Field				CLIENT:  NISOC	
VENDOR/SUPPLIER:  						Page No. : 12 of 12	
Contract No.: 053-073-9187		Inspection And Test Plan (ITP) For VHF Radio System					
Project Code	Work Package	VENDOR/SUPPLIER	Discipline	Equipment Name	Type		
SR	05	AG	QC	VHF	IP	0010	F00

Row	Activities	Reference Documents	Acceptance Criteria	Frequency of test	Verifying Document	Action				Remark
						AG	MK	TPA	NISOC	
3-3	Wiring & Final Assembling Check	GA Wiring Diagram	GA Wiring Diagram	100%	TPA Test Report	H	W	W	R	
3-4	Packing and Marking Check	Packing & Marking Procedure	Packing & Marking Procedure	100%	Packing List /IRN	H	H	H	R	
3-5	SAT	SAT Procedure	SAT Procedure	100%	TPA Test Report	H	H	H	H	
3-6	Final Book	Final Book Index	Final Book Index	100%	Document Production & Inspection	H	RA	RA	R	
3-7	COC	Product Documents	Product Documents	-	IC	H	R	H	R	

EPC/EPD CONTRACTOR:		Sulabedar Oil Field Development Project						CLIENT:	
		Construction and Installation of CCTV System for Bibi Hakimeh1							
Contract No.:		Inspection and Test Plan For Security CCTV System						Page No. : 1 of 10	
053-073-9187		Project Code	Work Package	VENDOR	Discipline	Equipment name	Type Code	Sequence No.	Rev.
		SR	07	AG	QC	CCT	IP	0002	F00

Inspection and Test Plan For Security CCTV System

	Sulabedar Oil Field Development Project		FA Final Approved
Project No. : 971021	Issued by: MK ☒ OEID ☐		
	Name: M.Norouzi		
	Date:		
Contract No. : 053-073-9187	Sign: 		

F00	25-JAN-2025	Final Approved	A.F.	M.A.A.	H.M.	
V00	16-NOV-2024	Issued For Comment	A.F.	M.A.A.	H.M.	AP
Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	Client Approval

EPC/EPD CONTRACTOR:    	Sulabedar Oil Field Development Project Construction and Installation of CCTV System for Bibi Hakimeh1	CLIENT:  NISOC																											
Contract No.: 053-073-9187	<table border="1"> <tr> <th colspan="9">Inspection and Test Plan For Security CCTV System</th></tr> <tr> <th>Project Code</th><th>Work Package</th><th>VENDOR</th><th>Discipline</th><th>Equipment name</th><th>Type Code</th><th>Sequence No.</th><th>Rev.</th><th></th></tr> <tr> <td>SR</td><td>07</td><td>AG</td><td>QC</td><td>CCT</td><td>IP</td><td>0002</td><td>F00</td><td></td></tr> </table>	Inspection and Test Plan For Security CCTV System									Project Code	Work Package	VENDOR	Discipline	Equipment name	Type Code	Sequence No.	Rev.		SR	07	AG	QC	CCT	IP	0002	F00		Page No. : 2 of 10
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EPC/EPD CONTRACTOR:  OEID Smart & Agile  مکتارت مارون کاران  BGK INDUSTRIAL GROUP گروه صنعتی پتروشیمی کسپان 	Sulabedar Oil Field Development Project Construction and Installation of CCTV System for Bibi Hakimeh1	CLIENT:  NISOC																
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1 Introduction

1.1 Project Description

National Iranian south oil company (NISOC) plans to fulfill an integrated project which includes several sub-projects to maintain and increase its production up to 10000 BPD of "SULABEDAR" oilfield which is located in GACHSARAN Area. The Project Consist of Several Sub-Project As Below:

Scope	Work Package NO.	Work Package Code	Work Package Description
EPC	00	General	General Documents
	05	BCSR	Construction Oil Booster Cluster and Separation Unit for Sulabedar Oil Field
	06	GPL8	Construction 8" Gas Transmission UG Pipeline from Sulabedar to Bibi Hakimeh1
	07	CCTV	Construction and Installation of CCTV System for Bibi Hakimeh1

1.2 Scope of Work Package

EPC work package 07, covers required activities for Construction and Installation of CCTV System for Bibi Hakimeh1.

2 Purpose

2.1 Definition

PROJECT	Sulabedar Oil Field Development Project
WORK PACKAGE	07- CCTV
CLIENT	National Iranian South Oilfields Company (NISOC)
GENERAL CONTRACTOR	OEID / Maroon Karan Company (MK)
EPC CONTRACTOR	Maroon Karan Company (MK)
EPC SUB-CONTRACTOR	The organization engaged by the CONTRACTOR to perform the EPC works in the PLANT / SITE.
SUB-CONTRACTOR	Bahman Gostaresh Kian Industrial Group (BGK)

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VENDOR/SUPPLIER	Amn Gostaran Hadi (AG)
GOODS	Any and all Equipment, Machinery, Apparatus, Material and other GOODS as described in general condition of Contract.
WILL	Is normally used in connection with the action by the client rather than by a consultant, Supplier or Vendor.
MAY	Is used where a provision is completely discretionary.
SHOULD	Is used where a provision is advisory only.
SHALL	Is used where a provision is mandatory.

3 Reference Documents

In case of discrepancies are found between project documents, codes, standards, and Company the following order of precedence shall apply:

- * IPS Standards
- * Project documents (Data Sheets, Drawings, Specifications, ...)
- * International codes and standards

4 Abbreviations

ITP: Inspection and Test Plan
MR: Material Requisition
PO: Purchase Order
KOM: Kick of Meeting
PIM: Pre-Inspection Meeting
TPA: Third Party Agency
IRN: Inspection Release Note
SRN: Shipping Release Note
MCC: Manufacturer compliance Certificate
MOM: Minutes of Meeting
CCTV: Closed-Circuit TeleVision

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Hold (H): Hold point is a designate point during or following specific activities which are defined in ITP and which inspection or examination shall not proceed unless the designate parties have witnessed the inspection or examination or test.

TPA shall sign and stamp all related reports as HOLD POINT, and results all activates shall be specified clearly by term Accepted / Rejected.

Vendor/Contractor shall be informed other party at least 7 working day prior to subject action.

Witness (W): Witness point is a designate point during or following an important activity at which inspection or examination is required in according with the relative procedures. Work may proceed through the designate witness point if the inspector is not present for the previously established activity.

TPA shall sign and stamp all related reports as “Witnessed by TPA” and results all activates shall be specified clearly by term Accepted / Rejected.

Vendor/Contractor shall be informed other party at least 3 working day prior to subject action.

Review(R): It is proceed though reviewing any result of inspection or test as a method of ensuring that the inspecting of test is performed in accordance with any approved procedure, specification or acceptance criteria. Inspection result shall review, but presence of involved party at inspection time is not mandatory, all documents shall be sign and stamp as reviewed and results all activates shall be specified clearly by term Accepted / Rejected. Also TPA shall be Reviewed document in 7 days.

Review and Approved (RA): RA means that documents reviewed by involved party shall be signed and Stamped as reviewed and approved. Where a document is subjected to party approval, work shall not proceed until related party approved is obtained.

Monitor (M) or Spot witness (SW): Include a wide variety of action taken by charge person to inspect, check, control of activities and their sequence by means of observation, information collection, and verbal instruction; verify the routing and

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supporting documents for the purpose of proper expedition. Any non-conformity found during above mentioned inspection by TPA shall be reported to SUPPLIER and CONTRACTOR/PURCHASER and COMPANY immediately.

5 Site Condition:

Certain environmental is necessary to ensure proper operation of cable and equipment in their intended applications. It is intended that the storage, installation and operation of standard equipment and cable shall be met the project requirement

6 Language and Units

English language shall be used in all documents and drawings. International system of units (SI) shall be used, except for the units of piping size, temperature and pressure, which shall be in inch, degrees Celsius and Bar respectively.

7 Inspection Requirements

7.1. All items and their materials shall be inspected according to CONTRACTOR/PURCHASER's requirements. However, the acceptance of any work and/or release of the material/equipment by the CONTRACTOR/PURCHASER shall in no way relieve the supplier of any responsibility for carrying out all the provisions of the applicable codes, standards and the specification.

7.2 Inspectors or representatives shall have free access to all shops of the supplier or sub-supplier.

7.3 For minimum inspection points, see following table of this Inspection and Test Plan.

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8 Inspection and test plan

ITP for each item will be prepared by manufacturer & submitted via Contractor for Company's review only when the manufacturer is defined/PO is placed. Also each ITP related to each item will be finalized prior to PIM and when all the engineering documents are completed /finalized.

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Row	Activities	Reference Documents	Frequency of test	Verifying Document	Action				Remark
					AG	BGK	TPA	NISOC	
A	Pre-Inspection Meeting (PIM)	Project Specification	--	MOM	H	H	H	H	--
1-1	Engineering Documents and Data Sheet according VPIS	MR No. SR-07-MK-200-IN-MR-0004-D00	100%	VPIS	H	RA	R	R	--
1-2	Factory & Site Acceptance Test (FAT&SAT) Procedure	Project Specification	--	Test Procedure	H	RA	R	RA	--
1-3	Packing and Marking Procedure	Project Specification	--	Packing and Marking Procedure	H	RA	R	R	--

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Row	Activities	Reference Documents	Frequency of test	Verifying Document	Action				Remark
					AG	BGK	TPA	NISOC	
2-1	Final Visual, Dimensional, Coating and QTY and marking Inspection - Glands -CERT - KAFO - JBs- -- CERT - Related Accessories (Patch Cords, SFP,...)	BOM/Data Sheets/ Engineering Document	100%	Test Report	H	RA	H	R	Dimensional, Coating for KAFO
2-2	Visual and QTY and marking Inspection Before FAT - CAMERAs - MONITORs - NVRs - Workstation - Intercom - Switches	BOM/Data Sheets / PL CO (if Applicable)	100%	Test Report	H	W	H	RA	
2-3	FAT (Functional Test before Fabrication)	FAT Procedure	As required based FAT Procedure	Test Report	H	H	W	H	

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Row	Activities	Reference Documents	Frequency of test	Verifying Document	Action				Remark
					AG	BGK	TPA	NISOC	
2-4	Packing and Marking Check	Packing & Marking Procedure	100%	Packing List	H	H	H	R	--
2-5	Certificate of Compliance	Product Documents	-	COC	H	R	R	R	
2-6	Inspection Release Note	Approved BOM	-	IRN	-	RA	H	R	
2-7	Inspection Certificate	VPIS	-	IC	-	RA	H	R	
2-8	Opening Package Inspection	IRN	100%	MRS	H	H	-	W	
2-9	Site Acceptance Test(SAT)	SAT Procedure	100%	TPA Test Report	H	H	-	H	
2-10	Final Book	Final Book Index	100%	Document Production & Inspection	H	RA	RA	R	