



**BUSHEHR PETROCHEMICAL COMPANY
MEG PLANT**



**Inspection and Test Plan
for reciprocating compressor**
Inspection and Test Plan (ITP) for Reciprocating Compressor-MEG-303



Owner Document Number:
17811-08

Project	Area	Phase	Unit	Dis.	Doc.	Seq.
BU	20	VD	303	QC	ITP	0005

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**Inspection and Test Plan
for reciprocating compressor**
Inspection and Test Plan (ITP) for Reciprocating Compressor-MEG-303

<p align="center">BUSHEHR PETROCHEMICAL COMPANY MEG PLANT</p>	
Document Review	
Issue Purpose:	IFA
Result Code: AP,AN,CM,RE,NC	CM
Next Status : IFC,IFA,IFI,AFC,AB	IFA
Responsible Department	Inspection
Commented Date	2021/05/10
Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.	

Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
00	16/12/2020	For approval	KP	JR	PW	
00	30/10/2020	For approval	KP	JR	PW	
		Class: 2	Phase: DE			

OWNER:



**BUSHEHR PETROCHEMICAL COMPANY
MEG PLANT**

EPC CONTRACTOR:



MC:



**Inspection and Test Plan
for reciprocating compressor**

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LOGO VENDOR

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1. GENERAL

1.1. Scope

This Inspection Test Plan (ITP) covers the minimum requirements for inspection, testing and fabricating of used in the plant of Bushehr Petrochemical Project.

The EPCC/Supplier shall in any case conduct all the tests required by contractual documents, specifications, codes and standards and keep the relevant documentation.

Where required, Inspection Test Plan (ITP) will be finalized during the pre-inspection meeting.





The EPCC/Supplier is responsible for the adequacy and compliance of inspection and tests of equipment with the applicable code and standards requirements, the process conditions and/or other conditions as specified in this ITP.

The OWNER's Inspection and Test Plan for equipment is an engineering document, which defines:

- The type and extent of OWNER's Representative Involvement in each phase of fabrication, control and testing requiring an inspection.
- The resulting EPCC/VENDOR's contractual obligations in accordance with general purchase condition.

During the course of project execution, if an activity is found to be necessary but not covered in the ITP table, any party's proposal shall be prepared describing the items in ITP format for activity and issued to OWNER/MC for approval prior to commencement of the referred activity.




Compliance with this document and the accompanying data does not relieve the EPCC/VENDOR from his own responsibilities and guarantees nor from any further contractual obligations.

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1.2. Definition of Terms

The following defines the meaning of specific words used in this document:

Owner	Bushehr Petrochemical Company (BUPC)
MC	Samt-O-Sou-Ye Tose-Eye Iranian (SSTI) Company & Namvaran Delvar Engineering & Construction Company (NDEC).
EPCC	Joint Venture of Chagalesh, Enershimi and Steam (CES)
Supplier / Vendor	Means the company who will supply and/or manufacture equipment(s) and/or materials under Purchase Order issued by the EPCC , which is Company for this Contract.
Project	Phase 2 Bushehr Petrochemical Project, Plant
Location	South of IRAN, Bushehr Province, Assaluyeh city
Third Party Inspection Agency (TPA)	The Company that is responsible for Inspecting of all tests and documents review as Client's representative and checking of fabricated equipment/commodities conformity with Approved procedures and documents before, during and end of manufacturing.
Shall	Refer to a mandatory requirement.
ITP	Inspection and Test Plan
MR	Material Requisition
P.O	Purchase Order
PIM	Pre-Inspection Meeting
IRN	Inspection Release Note
MTC	Material test certificate





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OWNER/MC shall be consulted in writing in every case of conflict, for approval.

- **HOLD POINT (H):** Hold point is a designate point during or following specific activity 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.
- **WITNESS POINT (W):** A designated point during or following an important activity at which inspection or examination is required in accordance with the relative procedure. Work may proceed through the designated witness point if the required party is not present for the previously established activity, provided that inspection and test records are made available to OWNER/MC/TPI for review.
- **SPOT WITNESS POINT 20%** A designated point during or following an activity at which spot inspection or spot examination is required in accordance with the relative procedure. Work may proceed through the designated spot witness point if the required party is not present for the previously established activity.

This may include a wide variety of actions taken by in 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 during above mentioned inspection by TPI shall be reported to OWNER/MC immediately.

REVIEW POINT (R): It is processed through reviewing any results of inspection or test as a method of ensuring that the inspection or test is performed in accordance with any approved drawing, procedure, specifications or acceptance criteria.

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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.

- **REVIEW & APPROVAL (RA):** RA means that the document reviewed by involved parties shall be signed and stamped as reviewed & approved. Where a document is specified to be subjected to a party`s approval, work shall not be proceeding until this approval to be obtained.

1.3. Applicable codes and standards

ASME VIII Div. 1

ASME XI

ASME B31.3




AWS D1.1

1.4. Abbreviations

E.P.M = engineering and production manual, can be supplied on request

2. INSPECTION REQUIREMENTS

- OWNER/MC could have witness during and on any of the manufacturing steps.

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- EPCC/Supplier shall inform other parties for 7 calendar days prior to subjected action for H/W/SW inspection points for LOCAL inspection.
- EPCC/Supplier shall inform OWNER/MC for 14 calendar days prior to subjected action for H/W/SW inspection points for OVERSEAS inspection.
- All items and their materials shall be inspected according to OWNER/MC's requirements. However, the acceptance of any work and/or release of the material/equipment by the OWNER /MC shall in no way relieve the supplier of any responsibility for carrying out all the provisions of the applicable codes, standards and the specification.
- Inspectors or representatives shall have free access to all shops of the supplier or sub-supplier.

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3. INSPECTION AND TEST PLAN TABLE

Row	Activities	Reference Documents	Acceptance Criteria	Verifying Document	Action			
					Manufacturer/Vendor	CES Contractor	TPA	BUPC/MC
A.1	Kick of Meeting (KOM)	Contract/PO	--	MOM	H	<div style="border: 1px solid red; padding: 5px;">H/R/H</div>		
B.1	Pre-Inspection Meeting (PIM)	Project Specification	---	MOM	H			
<div style="border: 1px solid red; padding: 2px;">Documents Review Procedures according to VPIS</div>					H	RA	R	R

OWNER: 

**BUSHEHR PETROCHEMICAL COMPANY
MEG PLANT**

CONTRACTOR: 
Chagalesh-Enerchimi-Steam
Joint Venture
BUPC-MEG PLANT PROJECT

LOGO VENDOR

MC: 

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mention procedures needed for each steps and other necessary references. this goes for Acceptance criteria




There are no "Q" in this project. Vendor is "H" in every steps

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					Manufacturer/Vendor	CES Contractor	TPA	BUPC/MC
SKID (\$355)								
C.1	Materials	E.P.M. 11.1.1	EN 10204	3.1 Material certificate	Q	R	R	R
C.2	Welding	E.P.M. 11.1.2 - 11.1.7	AWS D1.1	PQR / WPS	Q	R	R	R
C.3	NDT (100% MT on lifting lugs)	E.P.M. 11.4	NDT procedure and NDT map	MT certificate	Q	R	R	R
C.4	Dimensions	E.P.M. 11.3	General Arrangement Drawing	General Arrangement Drawing as built	Q	R	R	R
C.5	Painting	E.P.M. 14.2.1	Surface preparation and Painting procedure	Painting report	Q	R	R	R




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Why all actions are "R". Submit your ITP as min requirements of SOI

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Row	Activities	Reference Documents	Acceptance Criteria	Verifying Document	Action			
					Manufacturer/Vendor	CES Contractor	TPA	BUPC/MC
D.5	Painting	E.P.M. 14.2.3	Surface preparation and Painting procedure	Painting report	Q	R	R	R
Pulsation damper (CS, ASME VIII Div 1)								
E.1	Materials	E.P.M. 7.2.1	EN 10204	3.1 Material certificate	Q	R	R	R
E.2	Welding	E.P.M. 7.2.4 - 7.2.5	ASME section IX	PQR / WPS	Q	R	R	R
E.3	Hydrostatic Test	E.P.M. 6.7.2 ASME VIII div.1	Hydrostatic Test Procedure	Hydrostatic Test Certificate	Q	R	R	R
E.4	Painting	E.P.M. 14.2.3	Surface preparation and Painting procedure	Painting report	Q	R	R	R

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Row	Activities	Reference Documents	Acceptance Criteria	Verifying Document	Action			
					Manufacturer/Vendor	CES Contractor	TPA	BUPC/MC
After cooler (SS, ASME VIII Div 1)								
F.1	Materials	E.P.M. 7.2.1	EN 10204	3.1 Material certificate	Q	R	R	R
F.2	Welding	E.P.M. 7.2.4 - 7.2.5	ASME section IX	PQR / WPS	Q	R	R	R
F.4	Hydrostatic Test	E.P.M. 6.7.2 ASME VIII div.1	Hydrostatic Test Procedure	Hydrostatic Test Certificate	Q	R	R	R
F.5	Painting	E.P.M. 14.2.3	Surface preparation and Painting procedure	Painting report	Q	R	R	R
Compressors								
G.1	Materials	E.P.M. 7.2.1	EN 10204	3.1 Material certificate	Q	R	R	R

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					Manufacturer/Vendor	CES Contractor	TPA	BUPC/MC
G.2	Components	E.P.M. 2.1	Equipment data sheet	Equipment data sheet approved	Q	R	R	R
G.3	Dimensions	E.P.M 2.2.3	General Arrangement Drawing	General Arrangement Drawing as built	Q	R	R	R
G.4	Painting	E.P.M. 14.2.3	Surface preparation and Painting procedure	Painting report	Q	R	R	R
Main motor								
H.1	Components	E.P.M. 3.1	Motor data sheet	Motor data sheet as built	Q	R	R	R


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					Manufacturer/Vendor	CES Contractor	TPA	BUPC/MC
H.2	Dimensions	E.P.M. 3.1.4	Motor drawing	Motor drawing as built	Q	R	R	R
H.3	Performance	E.P.M. 3.1	IEC 60034-1	Routine Test Certificate	Q	R	R	R
H.4	Painting	E.P.M. 14.2.1	Surface preparation and Painting procedure	Painting report	Q	R	R	R
FAT								
I.1	Manufacturing data book check	Index Manufacturing Data Book	Inspection Test Plan	Manufacturing Data Book	Q	R	R	R

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					Manufacturer/Vendor	CES Contractor	TPA	BUPC/MC
I.2	FAT test instrument calibration	FAT procedure	Inspection Test Plan	Calibration certificate	Q	R	R	R
I.3	Quality	General Arrangement Drawing P&ID	FAT Procedure	Signed FAT Procedure; attachment 2: equipment check list	H	H	H	
I.4	P&ID Review	P&ID	FAT Procedure	Signed FAT Procedure; attachment 2: equipment check list	H	H	H	
I.5	Dimensions	General Arrangement Drawing	FAT Procedure	Signed FAT Procedure; attachment 2: equipment check list	H	H	H	

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					Manufacturer/Vendor	CES Contractor	TPA	BUPC/MC
I.6	Painting	Surface preparation and Painting procedure	FAT Procedure	Signed FAT Procedure; attachment 2: equipment check list	H	H	H	R
I.7	Control Panel	Wiring diagram Panel lay-out	FAT Procedure	Signed FAT Procedure; attachment 2: equipment check list	H	H	H	
I.8	Instruments	Wiring diagram P&ID	FAT Procedure	Signed FAT Procedure; attachment 2: equipment check list	H	H	H	
I.9	Function check control panel	Control Philosophy, Wiring Diagram	FAT Procedure	Signed FAT Procedure; attachment 3: functional check list	H	H	H	

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I.10	Mechanical run test, performance test	Control Philosophy P&ID	FAT Procedure	Signed FAT Procedure; attachment 4: performance test result	H	H	H	R
I.11	Noise level test	Equipment Data Sheet	Equipment Data Sheet	Signed FAT Procedure; attachment 5: noise level sheet list	H	H	H	
I.12	Vibration level test	Control Philosophy P&ID	FAT Procedure	Signed FAT Procedure; attachment 4: performance test result	H	H	H	

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J.4	Marking	-	Packing and Preservation Procedure	Signed Packing List	H/H/H/R			
J.5	Inspection release Note	-	Signed ITP	Signed Inspection Release Note	H/R/H/R			

Final Data Book >>>> index as reference and acceptance criteria with H/RA/RA/R actions