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Attn: FGS Gloabal AB.

Attn: Mr. Nikan Shahidinia

CC: Ms. Zahra Bakhsi and Mr. Arash Behshadfar

Zierikzee October 18, 2021

Dear Mr Nikan Shahidinia,

Herewith we would like to inform you that the Pre-Inspection Meeting would be arranged as per underneath information.

**PIM Date: 20 October , 2021 13:00 CETS**

**Vendor: Airpack Nederland B.V.**

**Material/Equipment: Air compressor**

**PO No.: MEG20-PO-NBP303-021**

**Location: via Skype**

**Vendor Skype ID: We don't have a skype ID. We use MsTeams. Please share a link with us.**

**Participants: Jeroen Rust Airpack, Representatives of FGS / MC/ Vendor and JV**

Schedule		Subject	Description
Day	(Tehran/Iran time)	Pre-Inspection Meeting	short briefing of Quality System and its application to this P.O
			Review of Inspection& Test Plan

A red ink stamp featuring a stylized signature or logo above the initials 'J.R.'.

			Detailed issuing and document register with Status of submittal/approval of documents (Approval of DWGS, Procedures, Data sheets, WPS, NDE, etc.)
			NDE Personnel & Welding Inspectors Qualification Log and relevant Certificates

It would be appreciated if you advise the name of Owner/MC participants to coordinate.






Best Regards,



Jeroen Rust

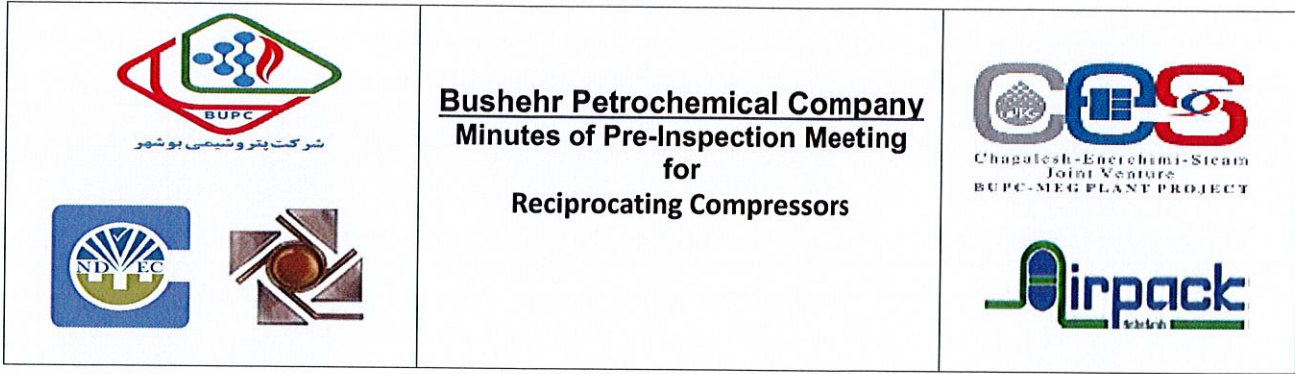
Commercial Project manager



 شرکت پترو و شیمیایی بوشهر  	<b>Bushehr Petrochemical Company</b> <b>Minutes of Pre-Inspection Meeting</b> <b>for</b> <b>Reciprocating Compressors</b>	 Chingalesh-Enerchim-Stream Joint Venture BUPC-MEG PLANT PROJECT 
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EPC Contractor / Vendor: CES-FGS/Airpack		Date: 10/20/2021	
Material / Equipment Name: Reciprocating Compressor		P.O No: MEG20-PO-BP303-021	
M.R. Number: BU-20-D-000-MA-MRQ-303		Project Name: MEG20	
ITP No.:		Meeting Place: SKYPE	
Quantity: 2		Delivery Date: As per submitted Time schedule	
<b>Attendees:</b>			
Name	Company	Position	Signature
Mr. Khanbabaee	BUMC	MEG procurement Head	
Mr. Ghahremani	BUMC	QC	<i>Ghahremani</i>
Mr. Bahramian	BUMC	Qc Expert	<i>Bahramian</i>
Mr. Sadri	BUMC	Engineering	SADRI
Mr. Attari	CES	QC Manager	
Mr. Bahramian	CES	QC Expert	<i>Bahramian</i>
Ms. Bakhshi	CES	Procurement Expeditor	
Mr. Eskandarlou	CES	Engineering	
Mr. behshadfar	FGS	Procurement Manager	<i>A. Behshadfar</i>
Mr. Shahidinia	FGS	Procurement Expeditor	<i>Shahidinia</i>
Kevin Pool	Airpack	Technical Specialist	
Jeroen Rust	Airpack	Commercial Project Manager	









<b>General Notes</b>	
<b>Item</b>	<b>Discussion</b>
1	Greeting & introducing and propose of meeting
2	<p>Communication Channel            All inspection notifications shall be addressed as follow:            BUPC/MC: For Inspection notification            Cc: a.delroshan@bupc.ir (Inspection Department/BUPC)            Cc: e.irani@bupc.ir (Procurement Department/BUPC)            Cc: h.bahramian@bumc.ir (Inspection Department/MC)            Cc: m.khanbabaiei@bumc.ir (Procurement Department/MC)</p> <p>EPC Contractor: For Inspection notification            To: <a href="mailto:procurement9@fgsab.se">procurement9@fgsab.se</a> (Procurement Department FGS)            Cc: z.bakhshi@ces-meg.com (Procurement Department JV)            Cc: n.khajehnouri@ces-meg.com (Procurement Department JV)            vendor obligates to exactly follow above addresses for sending of any notification</p>
3	<p>Clarification for INSPECTION NOTICE which should be issued by vendor 14 days before inspection date for Owner's HOLD / WITNESS points shall be sent to Owner via e-mail.            For Spot Witness, it shall follows as the percentages mentioned in ITP in Inspection Notification.</p>
4	<p>Vendor is responsible to prepare any required material, equipment or tools for inspection at mentioned date. If not, inspection cost will be considered as vendor's scope.            Cancellation of inspection to be announced 3 days in advance. If not, inspection cost is considered as vendor responsibility. Owner's inspector charges will be also on vendor responsibility.</p>
5	<p>Notification shall be issued in project format (CES Templates)            Any notification shall have unique Number (Notification-Vendor. Abb. - Last part of MR No. – Serial No.)            Above numbering shall be used in E-mail's subject.            Please make instance. Example: ESCO-418A-001</p> <div style="text-align: right;"> </div>

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 شرکت پتروشیمی بوشهر  	<b>Bushehr Petrochemical Company</b> <b>Minutes of Pre-Inspection Meeting</b> <b>for</b> <b>Reciprocating Compressors</b>	 Chagalesh-Enerchim-Stein Joint Venture BUPC-NEG PLANT PROJECT 
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6	Relevant approved and applicable documents No. shall be written in Inspection Notification.
7	<b>Item List shall be sent as attached file together with IN.</b> Inspection subject to be considered clearly.
8	For each MR No., and each inspection address, an individual notification shall be issued.
9	All purchasing (A to Z) shall be done according to project's approved vendor list (AVL) and meet all of the related project specifications and relevant standards. (ASTM or ASME, API are acceptable as reference material Standards and IECs, IPSs and EN are acceptable for Electrical and Instrument reference standards. Also, all IP, EX and Calibration Certificate shall be followed according to the mentioned standards. Other international standards could be acceptable (such as JIS, DIN, EN.) if considered in MR.
10	Vendor confirms to receive all the project specifications via material requisition (MR) and require to follow the project goods according to mentioned documents.
11	All required approved drawing and technical documents shall be prepared for inspector during inspection by Vendor. (Latest Rev. and approved by Client or its consultant). Document code 1 or 2 could be acceptable.
12	Manufacturing could be done based on approved documents "A" (code 1) or "AC" (code 2) STAMP by CES. Manufacture needs written CES approval to start manufacturing.
13	Final inspection reports shall be English and typed by computer.
14	All calibration certificates of inspection tools (such as test equipment) shall be submitted during inspection and tests, signed by CES representative and TPI. also incorporated on final book.
15	All welders (if any) shall be qualified as per ASME Sec. IX. or EN as per design code. Welder test (if any) and relevant certificate by vendor is acceptable unless become rejected by inspector.
16	NDT (if any) shall be done & evaluated by the certified personnel acc. to ASNT-TC- 1A (level II or III).
17	For all of the test reports, CES & TPI signature box shall be specified.
18	According to ITP, all inspections may be done by Owner's inspector (End User) or TPI Inspector (on behalf of Owner).

  
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	<p><b>Bushehr Petrochemical Company</b>  <b>Minutes of Pre-Inspection Meeting</b>  <b>for</b>  <b>Reciprocating Compressors</b></p>	
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19	Marking and shipping shall be done as per approved shipping /marking procedure or relevant Spec.
20	If any non-conformity indicated, a NCR shall be submitted by TPA including the proper suggestion and must be sent to BUPC Inspection, Engineering Dep. and consultant.
21	Mutually agreed ITP/QCP is attached. Review of vendor QC organization chart is done.
22	After any inspection, MOM (including all results of inspection) shall be written and signed by TPI, CES representative and vendor representative.
23	All of Test Repots shall be prepared by vendor at exact inspection time and submit to TPI for endorsement. During any inspection step, report of all past inspections (inspection level: R) shall be signed and stamped by TPI. So vendor is responsible to prepare all required reports and documents and submit them to TPI.
24	Final data book including all MTCs, inspection results also as built & approved documents shall be submitted to CES for approval.
25	MTC shall be original, true copy (Not copy) and from client approved vendor list. If not (Copy or Confounding certificate), TPI has right to reject or selecting sample and send to approved Lab for test. Any Lab. cost impact is by Vendor responsibility. Getting approval by Client is necessary for any out of AVL vendor.
<p>As discussed during the PIM this will not be done. 3.1 certificates will provided as per European standard.</p>	
26	R/A (review and approval) means vendor is not allowed to continue manufacturing before getting TPI approval.
27	Dimensional tolerances shall be exactly as per agreed documents such as project specifications (where applicable).
28	This agenda is applicable for all sub-vendors (if any).
29	The supplier (main supplier & sub supplier) or sub vendor must be approved with client in advance.
30	Responsibility of storage requirement for raw material & welding consumable & painting (if any) material is by vendor and shall review and confirm by TPI
31	Vendor declares the TPA and all parties have full access to the shop for supervision at all time in advance and according to covid regulations (during pandemic).
32	Vendor confirms that all the received Project specifications, codes and standards with taken deviations shall be applied during material supply, manufacturing and test stages wholly and completely.





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	<p><b>Bushehr Petrochemical Company</b>  <b>Minutes of Pre-Inspection Meeting</b>  <b>for</b>  <b>Reciprocating Compressors</b></p>	
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33	Calibration certificates/reference blocks shall be provided by Vendor prior to each test starting point, represented to TPI for review.
Special Notes	
34	revised ITP shall be sent by transmittal via FTP based on PIM comments.
35	All participant shall sign and stamp this MOM and related ITPs.
36	Main items, commissioning and two years spare parts shall be dispatched in 3 separate packages and therefore 3 packing list shall be submitted.

 **Behramian Ghahremani** SADRI



OWNER:  شرکت سست و سوس آه و سازه ایرانیان (سهامی خاص)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT						EPC CONTRACTOR:  Chagalesh-Enerchim-Steam Joint Venture B.U.P.C.-MEG PLANT PROJECT		
	Inspection and Test Plan (ITP) for Reciprocating Compressor-MEG-303						Vendor: 		
MC :  شرکت سست و سوس آه و سازه ایرانیان (سهامی خاص)	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
Owner Document Number: 17811-08	BU	20	VD	303	QC	ITP	0005	Rev.:	Page
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## Inspection and Test Plan for reciprocating compressor MEG-303

Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
04	26/11/2021	For approval;	JB	JR	PW	
03	29/10/2021	For approval;	JB	JR	PW	
02	27/08/2021	For approval;	JB	JR	PW	
01	17/06/2021	For approval	KP	JR	PW	
00	30/10/2020	For approval	KP	JR	PW	
					Class: 1	Phase: P

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*Ghahremani*

SADRI

  
J. Rust



OWNER:



شرکت مست و سوهی کوسه ایرانین  
(سهانی نیش)

MC :



شرکت مست و سوهی کوسه ایرانین  
(سهانی نیش)

**BUSHEHR PETROCHEMICAL COMPANY  
MEG PLANT**

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

EPC CONTRACTOR:



Chaghalesh-Enerchimi-Steam  
Joint Venture  
BUPC-MEG PLANT PROJECT



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5.	X	X	X	X	X
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7.	X	X	X	X	X
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9.	X	X	X	X	X
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OWNER:




شرکت مستعد و پیمانکار  
سازمان (سازمان)


**BUSHEHR PETROCHEMICAL COMPANY  
MEG PLANT**

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

EPC CONTRACTOR:



Chargalesk-Enerchimi-Steam  
Joint Venture  
BUPC-MEG PLANT PROJECT



MC :



شرکت مستعد و پیمانکار  
سازمان (سازمان)

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MC :   شرکت مست و سوزی گاز ایران (سهامی خاص)	<b>Inspection and Test Plan (ITP) for Reciprocating Compressor-MEG-303</b>							Contract No : 52-98/445	
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## 1. GENERAL

### 1.1. Scope

This Inspection Test Plan (ITP) covers the minimum requirements for inspection, testing and fabricating of reciprocating compressor used in the MEG 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.

### 1.2. Definition of Terms





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



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J. Rust

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	<b>Inspection and Test Plan (ITP) for Reciprocating Compressor-MEG-303</b>								
<b>MC :</b>  شرکت مست و سوبی توست ایرانین (سامانی ناس)	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
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<b>Owner</b>	Bushehr Petrochemical Company (BUPC)
<b>MC</b>	Samt-O-Sou-Ye Tose-Eye Iranian (SSTI) Company & Namvaran Delvar Engineering & Construction Company (NDEC).
<b>EPCC</b>	Joint Venture of Chagalesh, Enershimi and Steam (CES)
<b>Supplier / Vendor</b>	Means the company who will supply and/or manufacture equipment(s) and/or materials under Purchase Order issued by the EPCC , which is FGS Global AB Company for this Contract.
<b>Project</b>	Phase 2 Bushehr Petrochemical Project, MEG Plant
<b>Location</b>	South of IRAN, Bushehr Province, Assaluyeh city
<b>Third Party Inspection Agency (TPA)</b>	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.
<b>Shall</b>	Refer to a mandatory requirement.
<b>ITP</b>	Inspection and Test Plan
<b>MR</b>	Material Requisition
<b>P.O</b>	Purchase Order
<b>PIM</b>	Pre-Inspection Meeting
<b>IRN</b>	Inspection Release Note
<b>MTC</b>	Material test certificate

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






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MC:   شرکت مست و موی آس ایرانیاان (سهانی خاص)	<b>Inspection and Test Plan (ITP) for Reciprocating Compressor-MEG-303</b>							Contract No : 52-98/445	
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- 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% W):** 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.
- 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.

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 J. Rust
 

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- **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
- API 618 (latest edition) with deviations and clarifications as per PO

### 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.
- EPCC/Supplier shall inform other parties for 7 calendar days prior to subjected action for H/W/SW inspection points for LOCAL inspection.



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<b>MC:</b>  	<b>Inspection and Test Plan (ITP) for Reciprocating Compressor-MEG-303</b>							<b>Contract No : 52-98/445</b>	
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- 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.



*Bahramian Chahremani* SADRI

OWNER:  شرکت سست و سون آرس ایرپک (سهانی فاس)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT							EPC CONTRACTOR:  Chagatsh-Enerchem-Stream Joint Venture BUPC-MEG PLANT PROJECT	
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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	Contract/PO	MOM	H	H	R	H



*Behramian Ghahremani SADRI*



**Airpack**  
J. Rust

OWNER:  شرکت سست و سوهی آهسته ایرانیان (سهامی خاص)	<b>BUSHEHR PETROCHEMICAL COMPANY MEG PLANT</b>							EPC CONTRACTOR:  Chuganesh-Enerchim-Stream Joint Venture BUPC-MEG PLANT PROJECT	
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B.1	Pre-Inspection Meeting (PIM)	Project Specification	Project Specification	MOM and ITP	H	H	R	H
B.2	Engineering documents	According to VPIS	Contract/PO	Approved Docs	H	RA	R	R
B.3	Procedures	According to VPIS, Project Spec	According to VPIS, Project Spec	Approved Procedures	H	RA	R	R
B.4	Welder Qualifications <sup>1</sup>	ASME Sec IX	ASME Sec IX	Welder Qualification Certificates	H	RA	RA	R
B.5	WPS & PQR	Project Spec, Related Standards, ASME Sec IX	Project Spec, Related Standards, ASME Sec IX	Approved WPS-PQR	H	RA	RA	R
B.6	NDT Personnel Qualification <sup>1</sup>	SNT-TC-1A	SNT-TC-1A	NDT Personnel Qualification Certificate	H	RA	RA	R
B.7	IECEX, IP, ATEX and SIL Certificate (as per Data Sheet)	API 618, Related Standards, Project Spec	API 618, Related Standards, Project Spec	Certificates	H	RA	RA	R

Notes:  
 1. Welder qualification and NDT personnel qualification will be presented during inspection if requested by the inspector, no prior approval required.

  
 J. Rust



*Behnam Ghahremani* SADRI

OWNER:

شرکت مست و بازرگانی شهرداری  
(صنای شارس)

MC :

شرکت مست و بازرگانی شهرداری  
(صنای شارس)BUSHEHR PETROCHEMICAL COMPANY  
MEG PLANT

CONTRACTOR:

Chagalesh-Enerchim-Stream  
Joint Venture  
BUPC-MEG PLANT PROJECTInspection and Test Plan (ITP) for Reciprocating  
Compressor-MEG-303





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## SKID (S355)

C.1	Raw Materials Inspection	GA, DWG, Data Sheet, Project Spec	GA, DWG, Data Sheet, Project Spec	MTC EN10204 type 3.1	H	RA	RA	R
C.2	Welding	WPS/PQR	AWS D1.1 WPS/PQR	VT Report	H	SW	SW	R
C.3	NDT 100% MT on lifting lugs	NDT Procedure and NDT Map, AWS D1.1	NDT Procedure and NDT Map, AWS D1.1	NDT Report	H	SW	SW	R
C.4	Visual and Dimensions Inspection	GA, DWG, Data Sheet	GA, DWG, Data Sheet	Inspection Report	H	W	W	R
C.5	Painting Inspection (Check Visual, RAL and DFT) During FAT	Surface Preparation and Painting procedure, SSPC	Surface Preparation and Painting procedure, SSPC	Painting report	H	W	W	R



Behramian Ghahremani SADRI

OWNER:  شرکت سست و سوا ایرانیان (سهای خاص)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT							CONTRACTOR:  Chagalesh-Eberchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	
MC:  شرکت سست و سوا ایرانیان (سهای خاص)	<b>Inspection and Test Plan (ITP) for Reciprocating Compressor-MEG-303</b>								
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**Piping (CS)**





D.1	Raw Materials Inspection	GA, DWG, Data Sheet, Project Spec	GA, DWG, Data Sheet, Project Spec	MTC EN10204 type 3.1	H	RA	RA	R
D.2	Visual & Dimensional (Fit-up)	Project Spec, GA, DWG, Data Sheet, WPS	Project Spec, GA, DWG, Data Sheet, WPS	QC Report	H	SW	SW	R
D.3	Welding Inspection	WPS/PQR	ASME IX, WPS/PQR	VT Report	H	SW	SW	R
D.4	NDT <sup>1</sup> 5% RT according ASME B31.3	NDT Procedure and NDT Map, ASME B31.3	NDT Procedure and NDT Map, ASME B31.3	NDT Report	H	SW	SW	R
D.5	Hydrostatic Test	ASME 31.3, Hydrostatic Test Procedure	ASME B31.3, Hydrostatic Test Procedure	Hydrostatic Test Report, Inspection Report	H	W	W	R
D.6	Painting Inspection (Check Visual, RAL and DFT) During FAT	Surface Preparation Painting procedure, SSPC	Surface Preparation and Painting procedure, SSPC	Painting report	H	W	W	R



*[Signature]*

*Behnam Ghahremani SADRI*

<sup>1</sup> Action point for RT in NDT is RA for TPA and CES representative.


OWNER:  شرکت سست و سوهی آسپر ایران (سهامی خاص)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT							CONTRACTOR:  Chughalesh-Enerchum-Stream Joint Venture BUPC-MEG PLANT PROJECT 	
MC :  شرکت سست و سوهی آسپر ایران (سهامی خاص)	<b>Inspection and Test Plan (ITP) for Reciprocating Compressor-MEG-303</b>								
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**Pulsation damper (CS, ASME VIII Div 1)**

E.1	Raw Materials Inspection	GA, DWG, Data Sheet, Project Spec	GA, DWG, Data Sheet, Project Spec	MTC EN10204 type 3.1	H	RA	RA	R
E.2	Visual & Dimensional	Project Spec and Drawing	Drawing	QC Report	H	SW	SW	R
E.3	Welding Inspection	WPS/PQR	ASME IX, WPS/PQR	VT Report	H	SW	SW	R
E.4	NDT <sup>2</sup> As per ASME VIII (if any)	NDT Procedure and NDT Map, ASME VIII	NDT Procedure and NDT Map, ASME VIII	NDT Report	H	RA	RA	R
E.5	Hydrostatic Test	ASME VIII, Hydrostatic Test Procedure	ASME VIII, Hydrostatic Test Procedure	Hydrostatic Test Report, Inspection Report	H	W	W	R
E.6	Painting Inspection (Check Visual, RAL and DFT) During FAT	Surface Preparation and Painting procedure, SSPC	Surface Preparation and Painting procedure, SSPC	Painting report	H	W	W	R

<sup>2</sup> Action point for RT in NDT is RA for TPA and CES representative. If there are other types of NDT, action points for those tests shall be SW for TPA and CES representative.

  
J. Rust

 **Chahremani SADRI**

OWNER:  شرکت سست و سراسر ایرانیان (سهامی خاص)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT							CONTRACTOR:  Chagalesh-Enerchem-Stream Joint Venture BUPC-MEG PLANT PROJECT	
MC:  شرکت سست و سراسر ایرانیان (سهامی خاص)	<b>Inspection and Test Plan (ITP) for Reciprocating Compressor-MEG-303</b>								
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**After cooler (SS, ASME VIII Div 1 and TEM C)**





F.1	Raw Materials Inspection	GA, DWG, Data Sheet, Project Spec	GA, DWG, Data Sheet, Project Spec	MTC EN10204 type 3.1	H	RA	RA	R
F.2	Visual & Dimensional	Project Spec and Drawing	Drawing	QC Report	H	SW	SW	R
F.3	Welding Inspection	WPS/PQR	ASME IX, WPS/PQR	VT Report	H	SW	SW	R
F.4	NDT <sup>3</sup> As per ASME VIII (if any)	NDT Procedure and NDT Map, ASME VIII	NDT Procedure and NDT Map, ASME VIII	NDT Report	H	RA	RA	R
F.5	Hydrostatic Test	ASME VIII, Hydrostatic Test Procedure	ASME VIII, Hydrostatics Test Procedure	Hydrostatic Test Report, Inspection Report	H	W	W	R
F.6	Painting Inspection (Check Visual, RAL and DFT) During FAT	Surface Preparation and Painting procedure, SSPC	Surface Preparation and Painting procedure, SSPC	Painting report	H	W	W	R

  
J. Rust



 **Behramian Ghahremani SADRI**

<sup>3</sup> Action point for RT in NDT is RA for TPA and CES representative. If there are other types of NDT, action points for those tests shall be SW for TPA and CES representative.

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	<b>Inspection and Test Plan (ITP) for Reciprocating Compressor-MEG-303</b>								
MC :  شرکت سست و سواپ ایرانین (سهامی مناس)	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
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Compressors								
G.1	Raw Materials Inspection <sup>4</sup>	GA, DWG, Data Sheet, Project Spec	GA, DWG, Data Sheet, Project Spec	MTC EN10204 type 3.1	H	RA	RA	R
G.2	Components Inspection	GA, DWG, Data Sheet, Project Spec	GA, DWG, Data Sheet, Project Spec	MCC, COC	H	RA	RA	R
G.3	Visual and Dimensions Inspection	GA, DWG, Data Sheet, Project Spec	GA, DWG, Data Sheet, Project Spec	Inspection Report	H	W	W	R
G.4	Hydrostatic Test	ASME VIII div.1 Hydrostatic Test Procedure	Hydrostatic Test Procedure	Hydrostatic Test Certificate	H	W	W	R
G.5	Gas Leak Test (during FAT)	Gas Leak Test Procedure, API 618	Gas Leak Test Procedure, API 618	Test Report	H	W	W	R
G.6	Painting Inspection (Check Visual, RAL and DFT) (During FAT)	Surface Preparation and Painting procedure, SSPC	Surface Preparation and Painting procedure, SSPC	Painting report	H	W	W	R



*[Handwritten Signature]*

*Behnamian Ghahremani SADRI*

<sup>4</sup> For all pressured and components of compressor EN 10204 3.1 shall be presented.

OWNER:



MC :

BUSHEHR PETROCHEMICAL COMPANY  
MEG PLANT

CONTRACTOR:



## Inspection and Test Plan (ITP) for Reciprocating Compressor-MEG-303





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### Main motor

Item	Description	Documents	Documents	Documents	Hold	Witness	Review	Release
H.1	Components Inspection	GA, DWG, Data Sheet, Project Spec	GA, DWG, Data Sheet, Project Spec	MCC, COC	H	RA	RA	R
H.2	Visual and Dimensions Inspection (During FAT)	GA, DWG, Data Sheet, Project Spec	GA, DWG, Data Sheet, Project Spec	Inspection Report	H	W	W	R
H.3	Type Test	IEC 60034-1, Data Sheet	IEC 60034-1, Data Sheet	Type Test Certificates and Reports	H	RA	RA	R
H.4	Painting Inspection (Check Visual, RAL and DFT) (During FAT)	Surface Preparation and Painting procedure, SSPC	Surface Preparation and Painting procedure, SSPC	Painting report	H	W	W	R
H.5	Name Plate Check (During FAT)	GA, DWG, Data Sheet	GA, DWG, Data Sheet	Approved FAT Procedure; Equipment check list	H	W	W	R



*Bahramian Ghahremani* SADRI

OWNER:  شرکت سست و سرو ایرانیان (سهامی خاص)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT							CONTRACTOR:  Chagalesh-Enerchum-Steam Joint Venture BUPC-MEG PLANT PROJECT	
	<b>Inspection and Test Plan (ITP) for Reciprocating Compressor-MEG-303</b>								
MC :  شرکت سست و سرو ایرانیان (سهامی خاص)	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
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FAT								
I.1	FAT Test Instrument calibration	FAT procedure	Relevant Standards	Calibration certificate	H	RA	RA	R
I.2	Quality Inspection	General Arrangement Drawing P&ID	FAT Procedure	Approved FAT Procedure; Equipment Check List	H	W	W	R
I.3	P&ID Review	P&ID	FAT Procedure	Approved FAT Procedure; Equipment Check List	H	RA	RA	R
I.4	Visual and Dimensions	General Arrangement Drawing	FAT Procedure	Approved FAT Procedure; Equipment Check List	H	W	W	R
I.5	Painting	Surface preparation and Painting Procedure, SSPC	Surface preparation and Painting Procedure, SSPC, FAT	Approved FAT Procedure; Equipment Check List	H	W	W	R
I.6	Control Panel	Wiring diagram Panel lay-out, FAT Procedure	FAT Procedure	FAT Test Report	H	W	W	R

OWNER:



MC :



BUSHEHR PETROCHEMICAL COMPANY  
MEG PLANT

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

CONTRACTOR:



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Item No.	Description	Documents	Procedure	Test Report	H	W	H	R
I.7	Instruments	Wiring diagram P&ID, FAT Procedure	FAT Procedure	FAT Test Report	H	W	W	R
I.8	Function check control panel	Control Philosophy, Wiring Diagram, FAT Procedure	FAT Procedure	FAT Test Report	H	W	H	R
I.9	Mechanical Run Test, Performance Test	Control Philosophy P&ID	FAT Procedure	FAT Test Report	H	W	H	R
I.10	Noise level test	FAT Procedure	Equipment Data Sheet	FAT Test Report	H	W	H	R
I.11	Vibration level test	FAT Procedure	FAT Procedure	FAT Test Report	H	W	H	R
I.12	Leak test	Leak Test Procedure, FAT Procedure	FAT Procedure	FAT Test Report	H	W	W	R
I.13	Strip Down Test (if Issue appear during Run-Test)	FAT Procedure	FAT Procedure	FAT Test Report	H	R	R	R



*[Handwritten Signature]*

*Behnam Ghahremani* SADRI

OWNER:  شرکت سست و سوسپنسور ایرپک (مسابی نیاس)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT							CONTRACTOR:  Chagalesh-Enerchim-Stream Joint Venture BUPC-MEG PLANT PROJECT	
	Inspection and Test Plan (ITP) for Reciprocating Compressor-MEG-303								
MC :  شرکت سست و سوسپنسور ایرپک (مسابی نیاس)	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
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**Final inspection**

J.1	Punch Items Inspection	Punch list, Data Sheet,	MTO	Approved Signed Punch List	H	RA	RA	R
J.2	Quantity Inspection	MTO, Data Sheet	MTO, Data Sheet	Inspection Report	H	W	W	R
J.3	Two Years Spare Parts and Commissioning Inspection	Two Years Spare Parts and Commissioning List, MTO	Two Years Spare Parts and Commissioning List, MTO	Approved Two Years Spare Parts and Commissioning Packing List	H	W	W	R
J.4	Packing and Marking Inspection	Packing and Marking Procedure	Packing and Marking Procedure	Signed Packing List	H	W	W	R
J.5	Manufacturer Certificates	Data Sheet, MR, GA, DWG	Data Sheet, MR, GA, DWG	MCC, COC	H	RA	RA	R
J.6	Inspection releaseNote	Signed PL, MTO	Signed PL	Signed InspectionRelease Note	H	R	H	R
J.7	FINAL DATA BOOK	Index Manufacturing Data Book, VPIS	Index Manufacturing Data Book, VPIS	Approved FDB	H	RA	RA	R



*[Handwritten signature]*

*Behnam Chahremani* SADRI