



# ASPC Project








<b>END CUSTOMER</b>	: Arya Sasol Polymer Company
<b>CONTRACTOR</b>	: DYPNF Co., Ltd.
<b>VENDOR NAME</b>	: Airpack Netherlands BV
<b>EQUIPMENT DESCRIPTION</b>	: Screw Compressor & Roots Blower
<b>PURCHASE ORDER NUMBER</b>	: PO-PC2312-08






Customer Document : 3944-VD-0180-DYP-RE-800-ITP-0143  
Number

Airpack Document Number : 23383-08

Document Title : Inspection & Test Plan

Review Code and Status		Contractor Initials/Signature	Date signed
	<b>Code 1</b> <b>REJECTED</b> - Vendor to revise and Resubmit. Work cannot proceed		09 May 2025
	<b>Code 2</b> Comments As Noted - Work May proceed, subject to compliance with and incorporation of comments		
	<b>Code 3</b> No Comments - Work may proceed.		
	<b>Code 4</b> Information only - Review not required.		

01	Issued for Approval	28-02-2025	SC	KP	JJ
00	Issued for Approval	11-02-2025	SC	KP	JJ
Rev. No.	Description	Date	Prepared by	Checked by	Approved by

CONTRACTOR:  	<b>300 KT POLYETHYLENE PLANT          ARYA SASOL POLYMER COMPANY          (ASPC)</b>	OWNER:  شرکت پلیمر آریا ساسول ARYA SASOL POLYMER COMPANY																				
VENDOR LOGO: 	<b>INSPECTION TEST PLAN</b>	MC:  شرکت ایزدکو ISED CO																				
<b>Owner Document Number :</b>	<table border="1"> <tr> <th>OWNER Project No.</th> <th>Vendor DOC.</th> <th>MR No.</th> <th>Vendor Code</th> <th>Discipline</th> <th>Unit</th> <th>Type</th> <th>Seq. No</th> <th>Rev.:</th> <th>Page</th> </tr> <tr> <td>3944</td> <td>VD</td> <td>0180</td> <td>DYP</td> <td>RE</td> <td>800</td> <td>ITP</td> <td>0143</td> <td>00</td> <td>1 of 39</td> </tr> </table>	OWNER Project No.	Vendor DOC.	MR No.	Vendor Code	Discipline	Unit	Type	Seq. No	Rev.:	Page	3944	VD	0180	DYP	RE	800	ITP	0143	00	1 of 39	
OWNER Project No.	Vendor DOC.	MR No.	Vendor Code	Discipline	Unit	Type	Seq. No	Rev.:	Page													
3944	VD	0180	DYP	RE	800	ITP	0143	00	1 of 39													

CSX Comment:  
 use correct format of ITP  
 ITP will be finalized in PIM

MC/Client:  
 This document need to be modified accordance with TBE /ITP and TCL agreements.

## INSPECTION TEST PLAN

MC:  
 please used the project format for ITP,

P.O. No.:	SHAU23-006-DYPNF-ASS	RESULT CODE : <input type="checkbox"/> AP <input type="checkbox"/> AN <input checked="" type="checkbox"/> CO <input type="checkbox"/> RE
MR. No.:	3944-SZP-RE-800-MRQ-0180	NEXT STATUS : <input type="checkbox"/> IFI <input checked="" type="checkbox"/> IFA <input type="checkbox"/> AFC <input type="checkbox"/> ASB or FIN
Item No. (Equipment No.):	PELLET CONVEYING SYSTEM(W-80001)	RESUBMISSION DATE :
Vendor Job No.:	PC2312	Approval or review hereunder shall not be considered to relieve Vendor/ Subcontractor of his responsibilities and liability under the Contract.

**M.Shakiba**

**2025-May-04**

Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
00	28.Feb,2025	For Approval	H.J Kim	S.M Han	C.K Choi	





**Inspection and Test Plan [ITP] &  
For Pellet Conveying System**

3944-VD-0180-DYP-RE-800-ITP-  
0143

DYJob No.: PC2312

# 1. Compressor & Roots Blower( Include MV motor)

**INSPECTION AND TEST PLAN (ITP)**

**Inspection and Test Plan Number 23383-08**

<b>Contract Number:</b>	PO-PC2312-08	<b>Inspection and Test Plan For:</b> <b>Screw Compressor &amp; Roots Blower Package</b>	
<b>Customer:</b>	a Sasol Polymer Comp		
<b>Contractor:</b>	DYPNF Co., Ltd.		
<b>Project:</b>	23383-COM		



**DRAWINGS FOR APPROVAL**

For drawings and documents for approval, we refer to the Supplier Master Document List with Airpack reference number 23383-01.

**LIST OF ABBREVIATIONS:**

- H = HOLD POINT  
Means that a hold shall be applied to the production schedule.  
For materials: the buyer must be invited for the inspection / test and the inspection / test must be carried out with the buyer in attendance.  
For drawings / documents: Airpack must receive approved drawings / documents, stamped by buyer.
- R = REVIEW POINT  
Means that documents shall be available at final inspection for review as part of the data book.
- RA = REVIEW AND APPROVE POINT  
Means that documents shall be reviewed and approved
- W = WITNESS POINT  
Means that the buyer requires notification of the inspection timing. However, if the inspection is performed as scheduled and if the buyer is not present, Airpack will carry out the test and proceed with production.
- Q = QUALITY INSPECTION  
Means that fabricated/purchased materials / parts of the package are checked by Airpack to be in accordance with the specifications.
- TPA = THIRD PARTY AGENCY
- E.P.M. = Engineering and Production Manual (mandatory reference - ISO)

### INSPECTION & TEST PLAN (ITP) PIM

MC/Client:  
It shall be separated by  
TPA and Owner

MC:  
please add the new column for MC/Owner

Activity No.	Inspection Activity	Characteristic to be verified	Extent of Examination	Reference Document	Acceptance Criteria	Verifying Document	Participation						REMARKS
							Airpack		Customer		Enduser/TPA		
							Code	Date	Code	Date	Code	Date	
<b>A.</b>	<b>PIM</b>												
1.	Pre-inspection meeting	Document review	100%	Purchase order approved ITP approved procedures	MR, PO	ITP (23383-08)	H		H		H	H	

MCT:  
A section as "Document review" should be added to ITP and relevant vendor procedures such as pressure testing procedure, NDE procedure, welding document, PMI procedure, etc shall be listed in this section.

MCT:  
WPS & PQR shall be mentioned as reference document and/or acceptance criteria.  
For verifying document, "QC report" should be written.

MC/Client:  
TPA W and Owner W

MC/Client:  
It shall be separated by TPA and Owner

MCT:  
Numbering of reference document shall be as per project format.

MC:  
please add the new column for MC/Owner

**INSPECTION & TEST PLAN (ITP) SKID AND AIR PIPING**

Activity No.	Inspection Activity	Characteristic to be verified	Extent of Examination	Reference Document	Acceptance Criteria	Verifying Document	Participation						REMARKS
							Airpack		Customer		Enduser/TPA		
							Code	Date	Code	Date	Code	Date	
<b>B.</b>	<b>Skid (S355)</b>												
1.	Materials	Visual check Certificate check	100%	E.P.M. 11.1.1	EN 10204 - 3.1	3.1 Material certificate	Q		W		W	R	During FAT
2.	Welding	Visual check Certificate check	100%	E.P.M. 11.1.2 - 11.1.7	AWS D1.1	PQR / WPS	Q		R		SW		
3.	NDT	Welds check	100% Lifting lugs	E.P.M. 11.4	NDT procedure	MT certificate	Q		R				
4.	Dimensions	Dimensional check	Random	E.P.M. 11.3	General Arrangement Drawing	General Arrangement Drawing as built	Q		W		W		During FAT
5.	Painting	Certificate check Paint thickness check	Random	E.P.M. 14.2.1	Painting procedure	Painting report	Q		W		W		During FAT

MC/Client:  
Surface preparation and painting inspection

MC/Client:  
ITP shall be revised according to last agreements IEC60034  
Table 16 – Minimum routine tests for machines assembled  
and tested in the factory of the manufacturer with witness for TPI

MC/Client:  
It shall be separated by  
TPA (RA) and Owner (R)

MC:  
please add the new column for MC/Owner

### INSPECTION & TEST PLAN (ITP) E-MOTOR COMPRESSOR

Activity No.	Inspection Activity	Characteristic to be verified	Extent of Examination	Reference Document	Acceptance Criteria	Verifying Document	Participation						REMARKS
							Airpack		Customer		Enduser/TPA		
							Code	Date	Code	Date	Code	Date	
<b>C. Compressor</b>													
1	Materials	Visual check Certificate check	100%	E.P.M. 7.2.1	EN 10204 -3.1	3.1 Inspection certificate for compressor/blower stage 2.2 works certificate 3.1 material certificate for silencer and compensator	Q		R		RA		To be checked in MRB during FAT
2	Components	Visual check	Random	E.P.M. 2.1	Equipment data sheet	Equipment data sheet approved	Q		R		RA		
3	Dimensions	Dimensional check	Random	E.P.M 2.2.3	General Arrangement Drawing	General Arrangement Drawing as built	Q		A		RA		
4	Painting	Certificate check Paint thickness check	Random	E.P.M. 14.2.3	Painting procedure	Painting report	Q				RA		To be checked in MRB during FAT
<b>D. Main E-motor</b>													
1	Components	Visual check	100%	E.P.M. 3.1	Motor data sheet	Motor data sheet as built	Q		W		W		
2	Dimensions	Dimensional check	100%	E.P.M. 3.1.4	Motor drawing	Motor drawing as built	Q						
3	Performance	Certificate check	100%	E.P.M. 3.1	IEC 60034-1	Routine Test Certificate Type Test Certificate (1 per type)	Q						
4	Painting	Certificate check Paint thickness check	Random	E.P.M. 14.2.1	Painting procedure	Painting report	Q						

MC/Client:  
Surface preparation and painting inspection

MC"  
Submitted test is not accepted. Mentioned tests in standard IEC 60034 shall be followed.  
Tests such as:  
 . Type test  
 . Measurement of insulation resistance - winding  
 . Measurement of winding resistance at cold condition  
 . Check of direction of rotation  
 . Heat Run Test  
 . ....  
 Shall be added

MCT:  
PMI test for non-carbon steel base and weld metal shall be added.

MC/Client:  
It shall be separated by  
TPA and Owner

MC:  
please add the new  
column for MC/Owner

**INSPECTION & TEST PLAN (ITP) INSTRUMENTATION AND VALVES**

Activity No.	Inspection Activity	Characteristic to be verified	Extent of Examination	Reference Document	Acceptance Criteria	Verifying Document	Participation						REMARKS
							Airpack		Customer		Enduser/TPA		
							Code	Date	Code	Date	Code	Date	
<b>E. Pressure/Temperature Gauges</b>													
1.	Materials	Visual check Certificate check	100%	E.P.M. 8.1 / 8.2	EN 10204 - 3.1	3.1 Material certificate	Q		R		R		
2.	Calibration	Certificate check	100%	E.P.M. 8.1 / 8.2	EN 10204	Calibration certificate	Q		R		R		
<b>F. Pressure/Temperature Transmitter</b>													
1.	Materials	Visual check Certificate check	100%	E.P.M. 8.3 / 8.4 / 8.6 / 8.8	EN 10204 -3.1	3.1 Material certificate	Q		R		W		
2.	Calibration	Certificate check	100%	E.P.M. 8.3 / 8.4 / 8.6 / 8.8	EN 10204	Calibration certificate	Q		W		W		
3.	ATEX	Certificate check Label check	100%	E.P.M. 8.3 / 8.4 / 8.6 / 8.8	EN 60079	Ex certificate	Q		R		R		
4.	SIL	Certificate check	100%	E.P.M. 8.3 / 8.4 / 8.6 / 8.8	IEC 62061	SIL Certificate	Q		R		R		
5.	Ingress Protection	Certificate or declaration check	100%	E.P.M. 8.3 / 8.4 / 8.6 / 8.8	EN / IEC 60529	IP 65 Certificate	Q		R		R		
<b>J. Pressure Safety Valves</b>													
1.	Materials	Visual check Certificate check	100%	E.P.M. 8.5	EN 10204 - 3.1	3.1 Material certificate	Q		R		W		
2.	Calibration	Certificate check	100%	E.P.M. 8.5	API Std 526	Calibration certificate	Q		W		W		
3.	Leakage Test	Certificate check	100%	E.P.M. 8.5	API Std 527	Hydrostatic Test Certificate	Q						
4.	Painting	Certificate check Paint thickness check	Random	E.P.M. 8.13	Painting procedure	Painting report	Q		R		RA		

MC/Client:  
Surface preparation and  
painting inspection

MC/Client:  
It shall be separated by  
TPA and Owner

MC:  
please add the new  
column for MC/Owner

**INSPECTION & TEST PLAN (ITP) ELECTRIC PANEL**

Activity No.	Inspection Activity	Characteristic to be verified	Extent of Examination	Reference Document	Acceptance Criteria	Verifying Document	Participation						REMARKS
							Airpack		Customer		Enduser/TPA		
							Code	Date	Code	Date	Code	Date	
<b>K.</b>	<b>Junction Box</b>												
1.	Dimensions	Visual check	100%	E.P.M. 9.1.1	Panel Layout Drawing	Panel Layout Drawing as built	Q		W		W		During FAT
2.	ATEX	Certificate check	100%	E.P.M. 9.1.1	EN 10204 - 3.1	Ex certificate	Q				W		During FAT
3.	Ingress Protection	Certificate check	100%	E.P.M. 9.1.1	EN / IEC 60529	IP 65 Certificate	Q				W		During FAT

MC:  
Check of wiring shall be added

MC/Client:  
It shall be separated by  
TPA and Owner

MC:  
please add the new  
column for MC/Owner

### INSPECTION & TEST PLAN (ITP) FACTORY ACCEPTANCE TEST

Activity No.	Inspection Activity	Characteristic to be verified	Extent of Examination	Reference Document	Acceptance Criteria	Verifying Document	Participation						REMARKS
							Airpack		Customer		Enduser/TPA		
							Code	Date	Code	Date	Code	Date	
<b>L. Manufacturing Data Book</b>													
1.	Content	Content check	100%	Index Manufacturing Data Book	Inspection Test Plan	Manufacturing Data Book	Q		R		RA		
<b>M. Test Instruments</b>													
1.	Calibration	Certificate check	100%	-	-	Calibration certificate	Q		W		R		
<b>N. Mechanical checks</b>													
1.	Quality	Visual check	100%	General Arrangement Drawing P&ID	FAT Procedure	Signed FAT Procedure; attachment 2: equipment check list	Q		H		H		
2.	P&ID Review	Visual check	100%	P&ID	FAT Procedure	Signed FAT Procedure; attachment 2: equipment check list	Q						
3.	Dimensions	Visual check Measurement check	100%	General Arrangement Drawing	FAT Procedure	Signed FAT Procedure; attachment 2: equipment check list	Q						
4.	Painting		Random			Signed FAT Procedure; attachment 2: equipment check list	Q						
5.	Junction					Signed FAT Procedure; attachment 2: equipment check list	Q						
6.	Instruments	Visual check	100%	Wiring diagram P&ID	FAT Procedure	Signed FAT Procedure; attachment 2: equipment check list	Q						
<b>O. Performance Test</b>													
1.	Performance	Performance check	100%	P&ID	FAT Procedure	Signed FAT Procedure; attachment 4: performance test result	W		W		H	H Performance test per compressor	

ASPC Rotary:  
Based on below agreement, MRT, Complete unit test, SAT should be added to ITP of compressor. level of inspection should be changed as well.  
Airpack 23-Dec-2025: Compressors will be subject to Aerzen standard QA/QC program including a mechanical running test. Certificate availability as indicated in right column. Tests are non-witnessed. Reports will be made available in MRB at Airpack facilities.  
All units will be subject to full visual and functional test at Airpack facilities.  
Complete unit running test to be performed at site during commissioning/SAT when packages are completely connected since Airpack does not provide any control system for these packages.

ASPC Rotary :  
Screw Balance test should be added ... R/A

ASPC Rotary :  
All tests should be performed on all purchased compressors ( main, standby and capital spare ( bare compressor ))

MC/Client:  
It shall be separated by  
TPA and Owner

**INSPECTION & TEST PLAN (ITP) PACKING**

Activity No.	Inspection Activity	Characteristic to be verified	Extent of Examination	Reference Document	Acceptance Criteria	Verifying Document	Participation						REMARKS
							Airpack		Customer		Enduser/TPA		
							Code	Date	Code	Date	Code	Date	
<b>P. Punch List</b>													
1.	Punch items	Close out check	100%	-	-	Signed Punch List	W		W		H		
<b>Q. Packing and Marking</b>													
2.	Quantity	Quantity check	100%	-	Packing and Preservation Procedure Commissioning and Start-up Spare Part List	Signed Packing List	Q		W		W		
2.	Packing	Visual check	100%	-	Packing and Preservation Procedure	Signed Packing List	Q		W				
2.	Marking	Visual check	100%	-	Packing and Preservation Procedure	Signed Packing List	Q		W				
<b>R. Release of the Package</b>													
1.	Inspection Release Note	-	-	-	Signed ITP	Signed Inspection Release Note	Q		-		H		