



ASPC Project



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

Customer Document : to be advised
Number

Airpack Document Number : 23383-08

Document Title : Inspection & Test Plan

Review Code and Status	Contractor Initials/Signature	Date signed
<input checked="" type="checkbox"/> Code 1 REJECTED - Vendor to revise and Resubmit. Work cannot proceed		18 Feb 2025
<input type="checkbox"/> Code 2 Comments As Noted - Work May proceed, subject to compliance with and incorporation of comments		
<input type="checkbox"/> Code 3 No Comments - Work may proceed.		
<input type="checkbox"/> Code 4 Information only - Review not required.		

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

INSPECTION AND TEST PLAN (ITP)

Inspection and Test Plan Number 23383-08

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

Reffer to ITP Att.
DYPNF Format



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)

A= Approval

Missing application of previos

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. Skid (S355)													
1.	Materials	Visual check Certificate check	100%	E.P.M. 11.1.1	EN 10204 - 3.1	3.1 Material certificate	Q		R		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		RA		
3.	NDT	Welds check	100% Lifting lugs	E.P.M. 11.4	NDT procedure	MT certificate	Q		R		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

Missing application of previous comment
Add the WPS &PQR RA,RA,RA

Refer to attached last page

not applicable?
- Air piping
- Hand Valves and Strainer
- Check Valves
- Solenoid Valve

G. Hand Valves and Strainers				
1.	Materials	Visual check Certificate check	100%	E.P.M. 8.12
2.	Painting	Certificate check Paint thickness check	Random	E.P.M. 14.2
H. Check Valves				
1.	Materials	Visual check Certificate check	100%	E.P.M. 8.13
3.	Painting	Certificate check Paint thickness check	Random	E.P.M. 8.13
I. Solenoid Valves				
1.	Materials	Visual check Certificate check	100%	E.P.M. 8.14
2.	Calibration	Certificate check	100%	E.P.M. 8.14
3.	ATEX	Certificate check Label check	100%	E.P.M. 8.14

DY

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	
C. Compressor													
1	Materials	Visual check Certificate check	100%	E.P.M. 7.2.1	EN 10204	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		R		RA		
4	Painting	Certificate check Paint thickness check	Random	E.P.M. 14.2.3	Painting procedure	Painting report	Q		R		RA		To be checked in MRB during FAT
D. Main E-motor													
1.	Components	Visual check	100%	E.P.M. 3.1	Motor data sheet	Motor data sheet as built	Q		R		R		
2.	Dimensions	Dimensional check	100%	E.P.M. 3.1.4	Motor drawing	Motor drawing as built	Q		R		R		
3.	Performance	Certificate check	100%	E.P.M. 3.1	IEC 60034-1	Routine Test Certificate Type Test Certificate (1 per type)	Q		R		R		
4.	Painting	Certificate check Paint thickness check	Random	E.P.M. 14.2.1	Painting procedure	Painting report	Q		R		R		

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	
E. Pressure/Temperature Gauges													
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		
F. Pressure/Temperature Transmitter													
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		R		
2.	Calibration	Certificate check	100%	E.P.M. 8.3 / 8.4 / 8.6 / 8.8	EN 10204	Calibration certificate	Q		R		R		
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		
J. Pressure Safety Valves													
1.	Materials	Visual check Certificate check	100%	E.P.M. 8.5	EN 10204 - 3.1	3.1 Material certificate	Q		R		RA		
2.	Calibration	Certificate check	100%	E.P.M. 8.5	API Std 526	Calibration certificate	Q		R		RA		
3.	Leakage Test	Certificate check	100%	E.P.M. 8.5	API Std 527	Hydrostatic Test Certificate	Q		R		RA		
4.	Painting	Certificate check Paint thickness check	Random	E.P.M. 8.13	Painting procedure	Painting report	Q		R		RA		

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	
K.	Junction Box												
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

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	
L. Manufacturing Data Book													
1.	Content	Content check	100%	Index Manufacturing Data Book	Inspection Test Plan	Manufacturing Data Book	Q		R		RA		
M. Test Instruments													
1.	Calibration	Certificate check	100%	-	-	Calibration certificate	Q		W		R		
N. Mechanical checks													
1.	Quality	Visual check	100%	General Arrangement Drawing P&ID	FAT Procedure	Signed FAT Procedure; attachment 2: equipment check list	Q		W		R		
2.	P&ID Review	Visual check	100%	P&ID	FAT Procedure	Signed FAT Procedure; attachment 2: equipment check list	Q		W		R		
3.	Dimensions	Visual check Measurement check	100%	General Arrangement Drawing	FAT Procedure	Signed FAT Procedure; attachment 2: equipment check list	Q		W		R		
4.	Painting	Visual check	Random	Painting procedure	FAT Procedure	Signed FAT Procedure; attachment 2: equipment check list	Q		W		R		
5.	Junction boxes	Visual check	100%	Wiring diagram Panel lay-out	FAT Procedure	Signed FAT Procedure; attachment 2: equipment check list	Q		W		R		
6.	Instruments	Visual check	100%	Wiring diagram P&ID	FAT Procedure	Signed FAT Procedure; attachment 2: equipment check list	Q		W		R		
O. Performance Test													
1.	Performance	Performance check	100%	P&ID	FAT Procedure	Signed FAT Procedure; attachment 4: performance test result	W		W		R	1 performance test per type compressor	

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	
P. Punch List													
1.	Punch items	Close out check	100%	-	-	Signed Punch List	W		W		R		
Q. Packing and Marking													
2.	Quantity	Quantity check	100%	-	Packing and Preservation Procedure Commissioning and Start-up Spare Part List	Signed Packing List	Q		W		R		
2.	Packing	Visual check	100%	-	Packing and Preservation Procedure	Signed Packing List	Q		W		R		
2.	Marking	Visual check	100%	-	Packing and Preservation Procedure	Signed Packing List	Q		W		R		
R. Release of the Package													
1.	Inspection Release Note	-	-	-	Signed ITP	Signed Inspection Release Note	Q		H		H		

1.	The material shall be checked by mill test report in accordance with applicable specification to assure the incoming materials being in accordance with the material specification and other requirements, the following shall be performed.
2.	Mill test reports shall be checked for chemical composition and mechanical properties on materials
3.	Identification marking which was made at the material manufacturer on the material shall be verified against mill test report, before cutting.
4.	Visual inspection shall be made to ensure no injurious defects such as sharp notch scratch, crack, pits and lamination on the surface and cut edge of steel plate.