

INSPECTION RELEASE NOTE/CERTIFICATE NO: IRN-Tecnix-RUNFENG-INA20210831-001 **DATE:** 31st Aug., 2021

PROJECT / CUSTOMER : Global Air Technix , Mumbai
CONTRACTOR/PMC : NA
VENDOR / SUB-VENDOR :
Hebei RUNFENG Low Temperature Equipment Co., Ltd

PLACE OF ISSUE : Ningbo, China
PMC JOB NO. : N/A
LOCATION: No.1 Zhenggang Road,
Xicheng Industrial Estate, Raoyang
County, Hebei, China
DATED : 30th Jul., 2021

PURCHASE ORDER NO. : INA20210730

SR. NO.	ITEM DESCRIPTION	UNIT	QUANTITY			
			AS PER P.O.	OFFERED	RELEASED	Is item qty complete as per PO?
1	Empty Cryogenic Cylinder DPL450-210-2.3	PCS	54 PCS	54 PCS	54 PCS	Yes

REFERENCE DOCUMENTS:

SR NO	DOCUMENT TITLE	VENDOR DOCUMENT NO	CLIENT DOCUMENT NO	APPROVAL STATUS
1	Performa Invoice	N/A	INA20210730	Approved
2	Drawing	RFGZ60-00	N/A	Approved
3	Drawing	HBRF175/195/210H-00	N/A	Approved
4	Specification	GB 24159-2009	N/A	-

DOCUMENTS/RECORDS REVIEWED:

1. ITP number: Scope specified by client via email. <ul style="list-style-type: none"> Visual Inspection -RW Dimension Inspection -RW Pneumatic test -5%W Hydrostatic test -5%W Review the MTC -R
2. Calibration certificate – acceptable
3. Pneumatic test report – acceptable
4. Hydrostatic test report – acceptable
5. MTC – acceptable
6. Certificate for safety relief valve – acceptable
7. Certificate for rupture disk – acceptable
8. Certificate for main isolation valve - acceptable
9. Batch Quality Test report - acceptable
10. Prototype Test report - acceptable

TUV INDIA PVT. LTD.
(REGD. & HEAD OFFICE)
801, RAHEJA PLAZA - I, LBS MARG, GHATKOPAR (WEST)
MUMBAI – 400086, MAHARASHTRA, INDIA

STAGES WITNESSED:

1. Checked the quantity – Acceptable
2. Checked the marking –Accepted by client
3. Checked the visual – No obvious defect was found
4. Checked the dimension – Acceptable
5. Witnessed the pneumatic test(5% i.e.3 nos.) – Acceptable
6. Witnessed the Hydrostatic test(sample product) – Accepted by client

NCR/WAIVER (If any): Waiver Mail from Client Dt. 19/08/2021 & 26/08/2021 & 30/08/2021 for the points mentioned in areas of concern raised during the visit.

CONCLUSION: Inspection was carried out within the scope defined in approved [QAP/ITP]. The item s/Equipments have met all the requirements of the approved drawing & Specifications.

IDENTIFICATION

: DW210H-2111-020 & DW210H-2111-045 & DW210H-2111-044 & DW210H-2111-030 & DW210H-2111-015 & DW210H-2111-066 & DW210H-2111-022 & DW210H-2106-132 & DW210H-2106-120 & DW210H-2106-134 & DW210H-2111-024 & DW210H-2111-038 & DW210H-2111-050 & DW210H-2111-095 & DW210H-2111-096 & DW210H-2111-105 & DW210H-2111-071 & DW210H-2111-082 & DW210H-2111-085 & DW210H-2111-084 & DW210H-2111-083 & DW210H-2111-049 & DW210H-2111-086 & DW210H-2111-100 & DW210H-2111-099 & DW210H-2111-078 & DW210H-2111-043 & DW210H-2111-047 & DW210H-2111-042 & DW210H-2111-025 & DW210H-2111-040 & DW210H-2111-016 & DW210H-2018-017 & DW210H-2115-006 & DW210H-2111-054 & DW210H-2111-076 & DW210H-2111-061 & DW210H-2111-069 & DW210H-2111-089 & DW210H-2111-075 & DW210H-2111-090 & DW210H-2106-123 & DW210H-2106-116 & DW210H-2106-124 & DW210H-2106-135 & DW210H-2106-133 & DW210H-2106-115 & DW210H-2106-130 & DW210H-2106-121 & DW210H-2106-119 & DW210H-2106-122 & DW210H-2106-139 & DW210H-2108-018 & DW210H-2108-009

ORDER STATUS

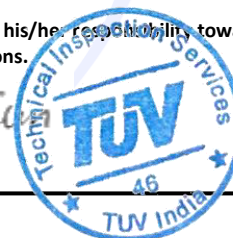
: ☒ Complete/☐ Incomplete

DATE(s) OF INSPECTION

: 10th Aug., 2021

Disclaimer: The issue of this Inspection release note/certificate does not relieve the supplier / manufacturer from his/her responsibility towards the client to supply item(s) concerned, in full compliance with the requirements of the purchase order & project specifications.

Li Cheng Cun
For self (Li Chengcun)
Surveyors to TUV India Private Limited



[REV 01(IF APPLICABLE) – (REASON FOR REVISION). THIS DOCUMENT SUPERSEDES IRN NO..... DATED.....]

INSPECTION REPORT

Inspection Report No:	IR-Tecnix-RUNFENG-INA20210730-001	Date:	10 th Aug., 2021
Inspection Notification No:	N/A	Date:	06 th Aug., 2021
PO No.:	INA20210730	Date:	30 th Jul., 2021
TUV India Control Or SAP Number:	8119512856		
Client:	Global Air Technix		
Material on Order:	Empty Cryogenic Cylinder DPL450-210-2.3 Design Code: GB 24159-2009		
Equipment Serial No:	DW210H-2111-020 & DW210H-2111-045 & DW210H-2111-044 & DW210H-2111-030 & DW210H-2111-015 & DW210H-2111-066 & DW210H-2111-022 & DW210H-2106-132 & DW210H-2106-120 & DW210H-2106-134 & DW210H-2111-024 & DW210H-2111-038 & DW210H-2111-050 & DW210H-2111-095 & DW210H-2111-096 & DW210H-2111-105 & DW210H-2111-071 & DW210H-2111-082 & DW210H-2111-085 & DW210H-2111-084 & DW210H-2111-083 & DW210H-2111-049 & DW210H-2111-086 & DW210H-2111-100 & DW210H-2111-099 & DW210H-2111-078 & DW210H-2111-043 & DW210H-2111-047 & DW210H-2111-042 & DW210H-2111-025 & DW210H-2111-040 & DW210H-2111-016 & DW210H-2018-017 & DW210H-2115-006 & DW210H-2111-054 & DW210H-2111-076 & DW210H-2111-061 & DW210H-2111-069 & DW210H-2111-089 & DW210H-2111-075 & DW210H-2111-090 & DW210H-2106-123 & DW210H-2106-116 & DW210H-2106-124 & DW210H-2106-135 & DW210H-2106-133 & DW210H-2106-115 & DW210H-2106-130 & DW210H-2106-121 & DW210H-2106-119 & DW210H-2106-122 & DW210H-2106-139 & DW210H-2108-018 & DW210H-2108-009		
Manufacturer:	Hebei Runfeng Low Temperature Equipment Co., Ltd	Location:	No.1 Zhenggang Road, Xicheng Industrial Estate, Raoyang County, Hebei, China
Sub-Supplier:	N/A	Location:	N/A
Visit Date (s):	10 th Aug., 2021	Inspection:	STAGE / FINAL

A) MANUFACTURER QUALITY PLAN – Inspection Activity Reporting:

MQP POINT No.	ACTIVITY DESCRIPTION	INSPECTION POINT (Hold / Witness / Review)	Performance Date
1	Visual Inspection	RW	10 th Aug., 2021
2	Dimension Inspection	RW	10 th Aug., 2021
3	Pneumatic test	5%W	10 th Aug., 2021
4	Hydrostatic test	5%W	10 th Aug., 2021
5	Review the MTC	R	20 th Aug., 2021

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B) MANUFACTURING & ENGINEERING STATUS:

Engineering Hold-up:		No	
Manufacturing in Process:		No	
Inspection Status (On hold, in process, etc.):		Finished	
PO Completion Date:		N/A	New Estimated Completion Date: N/A

C) SUPPLIER'S CONTACT:

	Primary Contact	Secondary Contact
Contact Name:	Queenie. Wang	N/A
Title:	N/A	N/A
Telephone:	13189797713	N/A
Facsimile / Email:	N/A	N/A

D) MATERIAL OFFERED FOR INSPECTION:

PO ITEM No.	DESCRIPTION OF MATERIAL / EQUIPMENT	Tag / ID No. / S. No.	ORDERED QUANTITY	OFFERED QUANTITY	ACCEPTED QUANTITY
1	Empty Cryogenic Cylinder DPL450-210-2.3	N/A	54PCS	54PCS	54PCS

E) SUPPLIER NON CONFORMANCE:

IF ANY, ENCLOSED REPORT NO.:

N/A

F) SUMMARY OF QUALITY SURVEILLANCE ACTIVITIES PERFORMED:

● TESTS / CHECKS WITNESS:

Arrived at Hebei RUNFENG Low Temperature Equipment Co., Ltd on 10th Aug., 2021, and performed inspection according to emails from client and Performa Invoice. The details as following:

Visual Inspection

- Checked the quantity for the 54pcs Empty Cryogenic Cylinder according to the emails with client and Performa Invoice. Please refer to the following photos for details.

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- Randomly checked the marking on the main isolation valves, found the “4.0MPa” and “DJ-10P2” information on it, and the found no obvious defects, please refer to the following photos for details.
- Randomly checked the visual for 42pcs Empty Cryogenic Cylinder according to the client scope and Performa Invoice, the surface was clean and smooth without pollution. Please see the details as following:
 - a) The stickers on the surface of cylinder includes “Welded insulated cylinder, DPL450-210-2.3, Work pressure and the supplier information”.
 - b) The labels on the product were “LAR/LIN/LOX” and the other is “Liquid Nitrogen”. Please refer to the following photos for details.
 - c) The nameplate of part products was in Chinese language only.

Dimension Inspection

Note:

1. The factory provided a drawing without tolerance. The factory provided the tolerance, and the result was acceptable, Please refer to the Attachment 6 - Drawing.
- Reviewed the Calibration certificate of the steel type, the result was acceptable. Please refer to the Attachment 1 – Calibration certificate.
 - Randomly checked the dimension for 3pcs Empty Cryogenic Cylinder according to the emails with client, Drawing and Performa Invoice. Please refer to the below table and photos for details.

Dimension Inspection details				
No	OD /mm		Height /mm	
	Standard	Measurement	Standard	Measurement
1	516 ± 2	516	1717 ± 10	1720
2		515		1718
3		516		1721

Pneumatic Test

Note : The witness of Pneumatic test was according to the GB 24159-2009 as per client scope.

- Reviewed the Calibration certificate of the pressure gage, the result was acceptable. Please refer to the Attachment 1 – Calibration certificate.
- Randomly witnessed the Pneumatic test for 3pcs Empty Cryogenic Cylinder according to the emails with client, Performa Invoice and GB 24159, The test pressure was 2.3MPa for 3mins. Please refer to the following photos for details.

Hydrostatic Test

Note: Hydrostatic test witnessed according to the GB 24159-2009 as per client scope.

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1. Hydro test not possible for finish products as per client confirmation, the factory only provided 1nos semi-finished product (not client procured product) for hydro test. The test details only for your reference.
 - Reviewed the Calibration certificate of the pressure gage, the result was acceptable. Please refer to the Attachment 1 – Calibration certificate.
 - Witnessed the factory commissioned the Hydrostatic test equipment, The test totally lasts for 4 hours, and vendor provided the videos and photos for hydrostatic test to review, Please note and refer to the following photos and videos for details.

● DOCUMENTS REVIEWED

- Reviewed the Calibration certificate for steel type and pressure gage, the result was acceptable. Please refer to the Attachment 1 – Calibration certificate.
- Reviewed the factory internal Pneumatic test, the result was acceptable. Please refer to the Attachment 2 – Report for Pneumatic test.
- Reviewed the factory internal Hydrostatic test report, the result was acceptable. Please refer to the Attachment 3 – Report for Hydrostatic test report.
- Reviewed the certificate for Pneumatic value, found the certificate was in Chinese, but the factory translated it. Please note and refer to the Attachment 4 – Certificate of Pneumatic value.
- Reviewed the MTC, the result was acceptable. Please refer to the Attachment 5 – MTC.
- Reviewed the certificate for Safety relief valves, please refer to the Attachment 7 - Certificate for Safety relief valve.
- Reviewed the certificate for Rapture Disk, please refer to the Attachment 8 – Certificate for Rapture Disk.
- Reviewed the certificate for Main isolation valves, please refer to the Attachment 9 – Certificate for Main isolation valves.
- Reviewed the batch test report, Please refer to the Attachment 10 – Batch test report
- Reviewed the prototype report, Please refer to the Attachment 11 – Prototype test report.

G) REFERENCE DOCUMENTS:

Document No.	Rev. No.	Description	Approved Code
INA20210730	N/A	Performa Invoice	Approved
RFGZ60-00	N/A	Drawing	Approved
HBRF175/195/210H-00	N/A	Drawing	Approved

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H) REMARKS:

(Quality Surveillance Activity Narrative Summation)

- The inspection result was performed satisfactory as per scope specified by client.

I) IDENTIFICATION:

MQP POINT No.	ACTIVITY DESCRIPTION	INSPECTION POINT (Hold / Witness / Review)	Result
1	Visual Inspection	RW	Acceptable
2	Dimension Inspection	RW	Acceptable
3	Pneumatic test	5%W	Acceptable
4	Hydrostatic test	5%W	Acceptable
5	Review the MTC	R	Acceptable













J) PHOTOGRAPH ATTACHED:

		
Pic.1 Arrived at the factory	Pic.2 Checked the quantity	Pic.3 Checked the visual
		
Pic.4 Checked the visual	Pic.5 Checked the visual	Pic.6 Checked the visual

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Pic.7 Checked the visual	Pic.8 Checked the visual	Pic.9 Checked the visual
		
Pic.10 Checked the visual	Pic.11 Checked the visual	Pic.12 Checked the visual
		
Pic.13 Checked the label-	Pic.14 Checked the label	Pic.15 Checked the label
		
Pic.16 Checked the label	Pic.17 Checked the label	Pic.18 Checked the nameplate
		
Pic.19 Checked the dimension	Pic.20 Checked the dimension	Pic.21 Checked the dimension

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Pic.22 Checked the dimension	Pic.23 Checked the dimension	Pic.24 Checked the dimension
		
Pic.25 Witnessed the Pneumatic test	Pic.26 Witnessed the Pneumatic test	Pic.27 Witnessed the Pneumatic test
		
Pic.28 Witnessed the Pneumatic test	Pic.29 Witnessed the Pneumatic test	Pic.30 Witnessed the Pneumatic test
		
Pic.31 Witnessed the Pneumatic test	Pic.32 Witnessed the Pneumatic test	Pic.33 Witnessed the Pneumatic test

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Pic.34 Witnessed the Hydrostatic test	Pic.35 Witnessed the Hydrostatic test	Pic.36 Witnessed the Hydrostatic test
		
Pic.37 Witnessed the Hydrostatic test	Pic.38 Witnessed the Hydrostatic test	Pic.39 Witnessed the Hydrostatic test
		
Pic.40 Witnessed the Hydrostatic test	Pic.41 Witnessed the Hydrostatic test	Pic.42 Witnessed the Hydrostatic test

K) DOCUMENT ATTACHED:

Attachment 1 – Calibration certification
Attachment 2 – Report for Pneumatic test
Attachment 3 – Report for Hydrostatic test
Attachment 4 – Certificate of Pneumatic value

L) PO STATUS:

☐ PARTIAL / COMPLETE ☒

M) FURTHER INSPECTION:

☐ YES (Tentative On:)
☒ NO

INSPECTION REPORT


N) RESULTS OF INSPECTION:



NO REASON FOR OBJECTION



WITH OBJECTION (See Remarks)

SUPPLIER REPRESENTATIVE	INSPECTION AGENCY
Name: Queenie. Wang	Name: Li Chengcun
Signature: Queenie. Wang	Signature: 
Date: 10 th Aug., 2021	Date: 10 th Aug., 2021

