TÜV Rheinland India Pvt Ltd	VENDOR INSPECTION REPORT	TÜVRheinland® Precisely Right.
Report No.:	TRI/AHM/RST/RSI/IR-2024-04232	Date : 26.10.2024
Inspector:	Mr. Vishal Patel	Page : 1 of 4

Project name:	**Issuing Office:**
End User :	**Mumbai - India**
Client: M/s. Roopam Steel	**PO No.: SB-RS-2413 Rev.1 [DT : 22.08.2024]**
Contact: Mr. Chirag Jain (75060 90755)	**Ref / Order No.: Offer acceptance on mail**
	TÜV order number: On mail
Vendor/Manufacturer: M/s. Roopam Steel	**Vendor's Ref: RSE 101**
Contact: Mr. Chirag Jain (75060 90755)	**Place of Inspection:** **M/s. Roopam Steel, Phase-1, GIDC**
Attendees: **Mr. Vishal Patel on behalf TUV R** **Mr. Chirag Jain on behalf - M/s. Roopam Steel**	**Date of Inspection: 24.10.2024, 25.10.2024 & 26.10.2024**

Equipment/goods inspected: Stainless steels seamless cold finish straight tubes As Per- SA 213 TP 321

Inspection according to:	
ITP / QCP No.: 905_01 REV:0 Dated: 21.08.2024	Specification: AS Per QAP
Codes / standards: SA213 TP-321	Drawing No.: Not Applicable

Scope of work:

☒ Quantity inspection	☐ Functional test witness	☒ Packing/ Marking inspection
☒ Visual inspection	☐ Performance test witness	☒ Document review.
☒ Dimension inspection	☐ Coating/ painting inspection	☒ Others (see remarks)

Remarks: - 100% Hydro Test, PMI, Visual & Dimension, Chemical Testing & Mechanical testing (Flaring ,Flatting , Hardness & Tensile Testing).

☒ full inspection ☐ partial inspection ☐ random inspection - 10 %

Inspection result:

☒ Satisfactory ☐ Partial non-conforming ☐ Rejected ☐ Aborted

Documentation:

☒ Complete and in order ☐ not complete (please see report details)

Deviations found:

☒ None ☐ to contract ☐ to drawings ☐ to ITP / QCP / PO

(Please see separate nonconformance report)

Conclusion: Base on Inspection activity carried out offer Material Found Satisfactory.

~~**Annex 7 of MS-0049461; Rev-0**~~

INSPECTION DETAILS

Material / Products / Components inspected:

Item/Tag No.	Brief Description	Total Ordered Quantity	Presented Quantity this Visit	Accepted Quantity this Visit
1	SS SMLS CFD TUBES SA-213 TP- 321 19.05 OD x 1.65(Min)Thk x 12192 mm Long HEAT NO.- CH-22200 Made in India	503 Nos	515 Nos	503 Nos

Detailed Scope of Inspection:

As per QAP Sr. No. 1 : Reviewed Raw material test certificates of SS Round Bar for chemical properties, size & steel making process as applicable as per relevant Material as per QAP and Standard – Found in order.

As per QAP Sr. No. 2 : Reviewed Heat Treatments at 1045°C to 1055°C And Indirect Quenching (Bright Annealing) for offered Tubes as per QAP and Standard – Found in order.

As per QAP Sr. No. 3 : Witnessed Chemical Test (Product Analysis) Report and Found in order.

As per QAP Sr. No. 4 to 7 : Witnessed Mechanical testing (1-Flaring Test,1- Flattening Test , 2-Hardness Test & 1-Tensile Test) of offered Tubes as per relevant material specification and QAP - Found satisfactory.

As per QAP Sr. No. 8 : 100% Witnessed Hydro Test on offered Qty at 1000PSI pressure and 10 S Holding time & Chloride Content Less Than 10 ppm Test Certificate Verified – No any pressure drop and leakage found during Holding Time and During Inspection.

As per QAP Sr. No. 9 : 100% Witnessed PMI Test found Satisfactory.

As per QAP Sr. No. 10 : 100% Witnessed Visual & Dimensional inspection of offered quantity in Day light condition & no injurious surface defect observed at the time of inspection.

As per QAP Sr. No. 11 : Verify Marking on Straight Tubes Identify as ' T1U' Electro Etching on 100% Witnessed Tubes.

As per QAP Sr. No. 12 : Review of final Certificate Type 3.2 Found Satisfactory.

Standards and Documentation:

SR No	DOCUMENT TITLE	DOC. No.	DOC. REV.	App. Status/code	Approved By
1	QAP	905_01 REV:0 Dated: 21.08.2024	00	Approved	YES

TÜV Rheinland (India) Pvt.Ltd., 27/B, 2nd Cross, Electronic City , Phase 1 Bangalore – 560 100, Karnataka,Tel : +91- 80- 46498000,Fax: +91 - 80- 46498042, Email id: - VendorInspections.India@ind.tuv.com

Witnessed Tests:

As per QAP Sr. No. 3 : Witnessed Chemical Test (Product Analysis) Report and Found in order.

As per QAP Sr. No. 4 to 7 : Witnessed Mechanical testing (1-Flaring Test,1- Flattening Test , 2-Hardness Test & 1-Tensile Test) of offered Tubes as per relevant material specification and QAP - Found satisfactory.

As per QAP Sr. No. 8 : 100% Witnessed Hydro Test on offered Qty at 1000PSI pressure and 10 S Holding time & Chloride Content Less Than 10 ppm Test Certificate Verified – No any pressure drop and leakage found during Holding Time and During Inspection.

As per QAP Sr. No. 9 : 100% Witnessed PMI Test found Satisfactory.

As per QAP Sr. No. 10 : 100% Witnessed Visual & Dimensional inspection of offered quantity in Day light condition & no injurious surface defect observed at the time of inspection.

As per QAP Sr. No. 11 : Verify Marking on Straight Tubes Identify as ' T1U' Electro Etching on 100% Witnessed Tubes.

Used Test Equipment:

Equipment name	Type /Model	Identification No./ Calibration No.	Valid range /Accuracy	Calibration valid to
External Micrometre	Mitutoyo	MC-05	0 to 25 mm	03.10.2025
Ball Point Micrometre	Mitutoyo	MC-04	0 to 25 mm	03.10.2025
Measure Tap	Freemans	MT-01	0 to 15 M	18.12.2024
Pressure Gauge	Pointer	PIPL-16103295	0 to 210 Kg/cm2	21.12.2024
PMI Gun	XL2 980 Plus	117306	--	14.12.2024
Rockwell Hardness Tester	Twin	07/08/019	150 kgf	05.12.2023
Universal Testing Machine	UTN-40	KTS/N/70/1-2/23-24	400 KN	03.12.2024

INSPECTION ACIVITIES

Activity/ITP/ QCP No.	Description of Activity with Inputs and Outputs	Results
1	Reviewed OF Raw Material Identification	Satisfactory
2	Reviewed Heat Treatments at 1045°C to 1055°C And Indirect Quenching	Satisfactory
3	Witnessed Chemical Test (Product Analysis) Report	Satisfactory
4 to 7	Witnessed Mechanical testing (1-Flaring Test,1- Flattening Test, 2-Hardness Test & 1-Tensile Test)	Satisfactory
8	100% Witnessed Hydro Test on offered Qty at 1000PSI	Satisfactory
9	100% Witnessed PMI Test found Satisfactory.	Satisfactory
10	100% Witnessed Visual & Dimensional inspection	Satisfactory
11	Verify Marking on Straight Tubes Identify as ' T1U'	Satisfactory

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Details:

Observation: Nill Balance Activity: Nil

Documentation Control:

Document name	Version	Approved by client
		YES/NO

Non-Conformities:

Report No.	Description	Date Raised	Status

☐ A punch list is available. Any punch list should be provided by the manufacturer but signed by the inspector and manufacturer's representative.

☐ Manufacturer informed about nonconformities by inspector

Issued by:	Reviewed by:
Witnessed Reviewed TÜVRheinland Date: Vishal Patel Vishal Patel Dt:26/10/2024	Digitally signed by Pradeep Shivaji Salunkhe Date: 2024.10.27 20:05:07 +05'30'
Name Signature	Name Signature

Disclaimer:

This report reflects our findings during inspection in time and place according to the agreed scope of our performance or deliverables and does not release buyer and/or seller from their contractual responsibilities. This report does not construe any guarantee or warranty that the purchase contract between buyer and seller is fulfilled correctly and all performances have been delivered without any defect. Furthermore the report and its results does not affect any potential buyer's right to claim for compensation or remedy towards the seller/supplier of apparent or hidden defects not detected during our inspection or occurred afterwards.

---- End Report ----

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