



Client: Baghdad engineering for general trading & contracting ltd	Office: Tehraan	IVR No.: BC-26-7894
Project: -	Other References (If any): -	Report date: 10/03/2026
Note of Inspection Letter No.: -	Supplier/Vendor: HANYCO	Order Status: ☒ Complete ☐ Incomplete
Inspection Date: 10/07/2026	Inspection Place: HAMOUN NYZEH COMPANY, 14Km, ARDESTAN road, KASHAN, Iran.	
Inspection duration: 1 DAY		

1) Material inspected

ROW	Item Description	QTY	Total Amount (USD)
1	Ductile Iron Tyton Pipe DN100 C40	1792	32256
2	Tyton gaskets DN 100	1792	-----

2) Scope of inspection

The scope of inspection covers the following items for Ductile Iron Tyton Pipe DN100 C40 and its Tyton gaskets:

- Raw material inspection
- Visual and dimensional inspection
- Wall thickness inspection
- Sampling and laboratory tests (hardness, metallography, tensile, chemical analysis)
- Hydrostatic test
- Zinc coating inspection
- Cement lining inspection
- Ovality inspection
- Paint coating and thickness measurement
- Marking inspection
- Packaging inspection
- Dimensional, visual, and hardness inspection of Tyton gaskets
- Review of calibration documents and laboratory accreditation

All inspections were performed in accordance with:

- Unnumbered ITP document submitted by Baltic Control for DN100 pipes
- ISO 2531

3) Applicable documents

Row	Document Name	Document Number
1	COMMERCIAL INVOICE	PI-05-103-011
2	Unnumbered ITP document submitted by Baltic Control for DN100 pipes	
3	Standards	ISO 2531
4		ISO 4179
5		ISO 4633
6		ISO 8179

4) Instruments used

The following measuring and testing instruments were used during inspection:

- Calipers
- Ultrasonic thickness gauge
- Coating thickness gauge
- Hardness tester
- Equipment for hydrostatic testing
- Equipment for visual and dimensional inspection

Note: Calibration certificates for all measuring instruments are attached. The laboratory's ISO/IEC 17025 certificate is also attached.

5) Description of inspection

The inspection was carried out in the following order:

5.1 Raw Material Inspection

Incoming raw material was inspected. The relevant laboratory test certificate is attached.

5.2 Visual and Dimensional Inspection

Visual and dimensional inspection was performed in accordance with the manufacturing drawings. No discrepancies were observed.

Internal diameter :99.5~100.5 mm

Length of pipe: ≥6000 mm

≤6100mm

External diameter: 119mm≤External diameter≤116.5mm

5.3 Wall Thickness Inspection

Cast iron wall thickness was checked in accordance with the ITP. The results were within the acceptance range.

Thickness: ≥5.5 mm

5.4 Sampling and Laboratory Tests

Sampling was carried out at two stages — melting and pipe casting — and on the finished pipe, in accordance with the ITP.

Hardness, metallography, tensile, and chemical analysis tests were performed in the factory laboratory (ISO/IEC 17025 certified) in the presence of a third-party inspector. The results are attached.

5.5 Hydrostatic Test

The DN100 pipe was hydrostatically tested at the working pressure for this size in the presence of the inspector. The test report is attached.

≥40 bar,15Sec

5.6 Zinc Coating Inspection

The appearance and thickness of the zinc coating were inspected during the production process. Test plate samples were taken for thickness verification in accordance with the standard. No discrepancies were observed.

5.7 Cement Lining Inspection

The thickness, appearance, and mixing ratio of the cement lining were inspected in accordance with the standard. The results were within the acceptance range.

5.8 Ovality Inspection

Ovality of the pipe diameter was inspected in accordance with the standard. No discrepancies were observed.

5.9 Paint Coating Inspection

The paint coating and its thickness were measured in accordance with the standard. The results were within the standard acceptance range.

Thickness: ≥95μ

5.10 Marking Inspection

Pipe marking was inspected based on the customer's request. No discrepancies were observed.

5.11 Packaging Inspection

The packaging method was

inspected and found to be in accordance with the customer's request.

5.12 Tyton Gasket Inspection

Dimensional, visual, and hardness inspection of the Tyton gaskets for the DN100 pipe was performed. No discrepancies were observed.

6) Non-Conformances

No non-rectifiable non-conformity was identified during the inspection.

Minor visual defects observed during the inspection were rectified at the inspection site in the presence of the inspector.

Consequently, no non-conformity remained outstanding, and no NON-CONFORMITY REPORT – Form FR-IN-GE-54 was required to be issued

7) Further Operation

The shipment/release of the inspected DN100 ductile iron pipe and its Tyton gaskets is subject to the Employer's review and decision upon receipt of this inspection report.

The inspector has only recorded the observations and findings of the inspection and does not, by this report, approve or reject the items.

Any further action shall be taken in accordance with the Employer's instruction

8) Conclusion

Based on the inspections performed, all examined items were within the specified acceptance criteria.

No non-conformities were recorded.

The DN100 ductile iron pipe and Tyton gaskets comply with the applicable documents, including the unnumbered ITP document submitted by Baltic Control and ISO 2531.

Final Result

☒ Satisfactory with comment

Comment: The inspection findings are satisfactory; however, the release/shipment of the inspected items is subject to the Employer's review and decision upon receipt of this report.

☐ Unsatisfactory

☐ Satisfactory with comment

9) Attachments:

- Minutes of Meeting
- Test Reports
- ITP
- Porches order (Performa)
- Calibration certificates

10) Pictures (The number of the attached photos should be more than 12 pictures. Caption is also required per each picture)

			
1. DT	2. DT	3. DT	4. DT
			
5. hardness	6. hardness	7. hardness	8. VT



9.VT



10. hardness



11. tensile



12. tensile



13. tensile



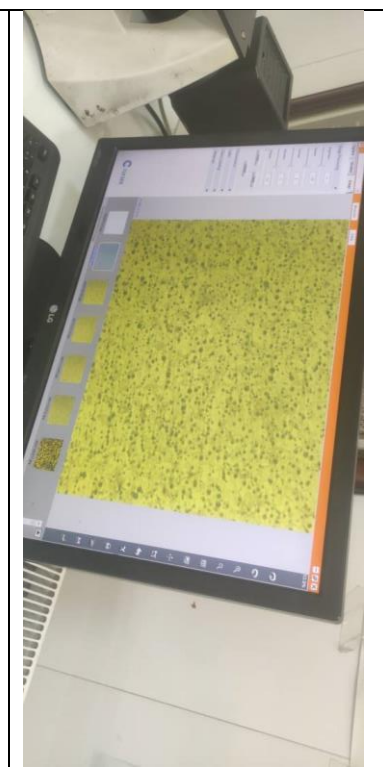
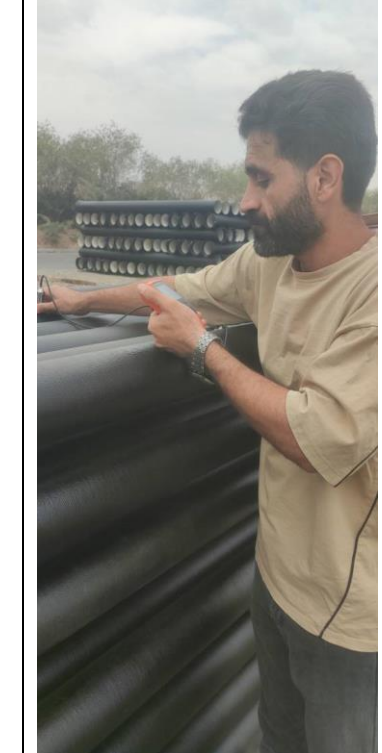
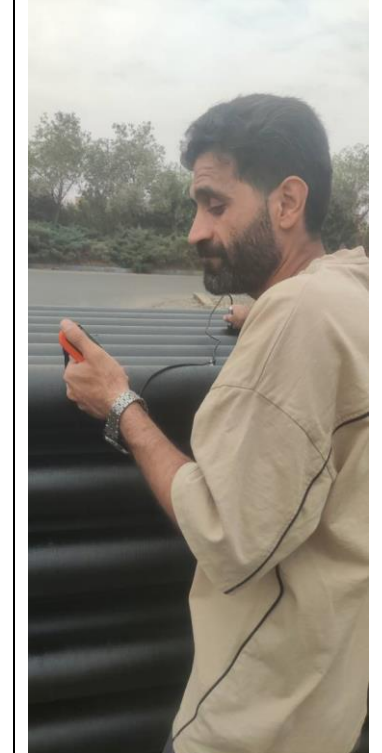
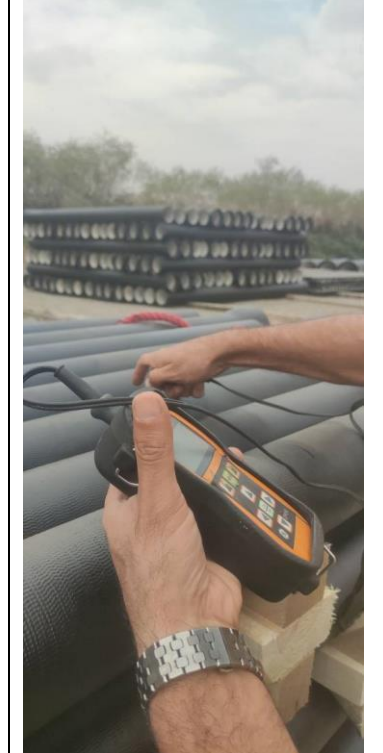
14. tensile



15: hardness



16. tensile

			
17. hardness	18. hardness	19. metallography	20. metallography
			
21.VT	22. thickness	23. thickness	24. . thickness



			
25. DT	26. DT	27. thickness	28. thickness
			
29. MARKING	30. MARKING	31. thickness	32. DT

11.Attendants

Supervisor of Inspection:

F.Esmaeili

Stamp and Signature:

[Signature]

Project Manager:

M.Hedayati

Stamp and Signature:

