

Nortech Technologies Ltd.

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Installation of Return Tube for Hot Bath Gas Heater

**Rashidpur Gas Field
Sylhet Gas Fields Limited
Habiganj, Bangladesh**



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Project Synopsis:

Nortech Technologies Ltd. successfully executed the supply, installation, testing, and commissioning of specialized Return Tube assemblies for a Hot Bath Gas Heater at the Rashidpur Gas Field of Sylhet Gas Fields Limited. As the local agent for the international manufacturer, we managed all local logistics, coordinated between the client and bidder (**Wilton Heat Transfer Services B.V.**), and oversaw the local contractor to ensure timely completion and compliance with all technical specifications.

Project Title : Return Tube for Hot Bath Gas Heater

Client : Sylhet Gas Fields Limited

Location : Rashidpur Gas Field

Date : January'2025

Objectives:

- Replace existing return tube assemblies with improved A106 Gr. B tubes.
 - Ensure full compliance with design drawing 6039173.D101.A.
 - Meet operational safety and performance standards.
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Scope of Work:

- **Material Supply** : Return Tube Type 63-YU-95 (8" SCH 20).
 - **Fabrication & Welding** : 18 units total (9 pieces of each design variation).
 - **Testing & QA** : 100% MPL weld inspection with documentation.
 - **Installation** : Dismantling, assembly, and on-site commissioning under Wilton supervision.
 - **Packaging & Delivery** : 3 sets of wooden packing for transport safety.
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Timeline:

- Duration : 3 weeks, From 3rd January 2025 to 27th January 2025.

International Partners:

- **Manufacturer and supplier** : Wilton Heat Transfer Services B.V., Netherlands
 - **Role** : Main bidder, Technical supervisor.
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Technical Specifications:

Parameter	Specification
Tube Material	ASTM A106 Gr. B
Tube Diameter & Thickness	219 × 6.35 mm
Tube Length	10,505 mm
Design Code	Stoomw and TEMA-R
Drawings	6039173.D101.A
Quantity	18 Nos.

Challenges & Solutions:

Challenge	Solution
Maintaining dimensional accuracy for long tube assemblies	Applied precision machining and full-length alignment checks
Ensuring weld quality on-site	Implemented 100% MPL testing with documented results

Results / Outcome:

- Successful installation and commissioning of all return tubes within schedule.
- System performance met all QA/QC standards.
- No non-conformities reported during inspection.

Client Feedback:

“The team executed the job professionally, ensuring quality and timely completion.”:

Name : Engr. Mohammad Abul Mansur Chowdhury,
Designation : General Manager (R&D), Current Charge
E-mail : gmrnd@sgfl.gov.bd

Project Pictures:





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🔍 Key Takeaways:

- Importance of precision alignment and weld quality for pressure-bearing assemblies.
- Effective coordination between design and site teams ensured successful delivery.



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Nortech's Value Delivery Summary:

Nortech Technologies Ltd. delivered significant value as the local agent for the supply and installation of the specialized Return Tube assemblies at the Rashidpur Gas Field. Our primary contribution was ensuring the seamless execution of this complex, multi-party project by acting as the critical link between the international manufacturer (Wilton Heat Transfer Services B.V.), the local contractor, and the client (Sylhet Gas Fields Limited). By expertly managing local logistics, coordinating all site activities, and supervising the installation to ensure strict compliance with the design code and technical specifications, Nortech guaranteed the project's successful, on-time completion, thereby minimizing downtime and ensuring the Hot Bath Gas Heater system's operational integrity for the client.

Contact:

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