

Md Tasruzzaman Babu

Page: General Information

Provide information about the company to be considered for the award. If you will be nominating an individual, specify the nominee's employer.

Name of Organization/Company

Bangladesh Railway

[REDACTED]

Additional Contacts

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Page: Entry Information

Entry Title

Md Tasruzzaman Babu

Category

T09. Lifetime Achievement Award - Transportation Technology

Lifetime Achievement Submission Format

Written Answers

a. Provide a short biography of the nominated person (up to 200 words). Required

Md Tasruzzaman Babu has made a significant contribution to the modernization of Lalmonirhat Railway, one of the oldest railway divisions in Bangladesh. As the head of the Mechanical Engineering department, he did a groundbreaking renovation project that addressed critical challenges in the division.

Babu led the design and implementation of the first automated railway turntable in Bangladesh, which allowed for safe locomotive rotation and extended wheel life, saving approximately USD 13 million annually. He also developed durable, locally produced wheelset guides, solving chronic failures and reducing maintenance costs. Additionally, Babu spearheaded the creation of electric lifting jacks and re-railing equipment, making the division self-reliant in accident recovery and routine servicing.

These innovations, developed using domestic technologies and expertise could be a model for developing countries to show that how local solutions can change an institution instead of explicitly relying on imported technology.

For these innovations, Mr. Babu was awarded the Silver Asia-Pacific Stevie Award 2025 in the 'Most Innovative Technology Leader of the Year' category. He also achieved the 'Best Innovator-2024' Award from the Ministry of Railway, Bangladesh. He was also an acknowledgment of SDG Innovation Award 2024 given by UNIDO for the automated turntable.

b. Outline the nominated person's career of achievement. There is no eligibility window for this category, so you may cite the nominee's entire lifetime of accomplishment (up to 250 words). Required

Md Tasruzzaman Babu has demonstrated a lifetime of exceptional achievement in engineering and innovation, particularly within the railway sector. Babu has led and implemented transformative projects that have not only modernized infrastructure but also enhanced safety, operational efficiency, and sustainability. His dedication to innovation is evident in his leadership of the Modernization of Lalmonirhat Railway project, where he spearheaded the design of an automated railway turntable, durable wheelset guides, and locally developed lifting jacks and re-railing equipment, all crafted using domestic expertise.

His commitment to sustainable development has led him to continuously advocate for and implement solutions that reduce reliance on imports, foster local innovation, and drive economic growth.

His career reflects a long-standing commitment to professional excellence and social responsibility, always ensuring that his projects align with broader Sustainable Development Goals. His work has transformed not just the Lalmonirhat Railway but has set a precedent for future infrastructure projects in Bangladesh, demonstrating how domestic technologies can effectively modernize aging infrastructure.

This could be a model for developing countries to show that how local solutions can change an institution instead of explicitly relying on imported technology.

For these innovations, Mr. Babu was awarded the Silver Asia-Pacific Stevie Award 2025 in the 'Most Innovative Technology Leader of the Year' category. He also achieved the 'Best Innovator-2024' Award from the Ministry of Railway, Bangladesh. He was also an acknowledgment of SDG Innovation Award 2024 given by UNIDO for the automated turntable.

Humanize 225 words

c. Explain why the achievements you have highlighted are unique or significant. If possible compare the achievements to the performance of other persons in the nominee's industry(s) (up to 250 words). Required

Md Tasruzzaman Babu's achievements are particularly significant given the history and challenges of Lalmonirhat Railway, the country's oldest division established in 1900. Despite its historical importance, this division had long been neglected due to its distance from the capital, Dhaka. For over 125 years, officials performed their regular duties, but no one took the initiative to innovate or address the recurring issues faced by the division.

Babu's innovations, such as the first automated railway turntable in Bangladesh (considered by some experts as the first in South Asia), stone protective shutter, durable wheelset guides, country's first domestically made re-railing equipment, and electric lifting jack, tackled the division's most pressing challenges head-on.

In contrast to other railway divisions in Bangladesh and South Asia, which continue to rely on expensive imported technologies, Babu's approach was based on locally sourced materials and expertise. His innovations have not only improved safety and operational efficiency but also saved millions of dollars in import costs. His work has transformed Lalmonirhat Railway into a self-reliant, sustainable division, setting a new benchmark for innovation in the country's railway sector.

His works could be a model for developing countries to show how local solutions can change an institution instead of explicitly relying on imported technology. His efforts were recognized globally when he won the Silver Asia Pacific Stevie Award, and Acknowledgement of SDG Innovation Award 2024 given by UNIDO for the automated turntable, further cementing his role as a leader in railway innovation.

d. Reference any attachments of supporting materials throughout this nomination and how they provide evidence of the claims you have made in this nomination (up to 250 words). Optional

[1] <https://www.prothomalo.com/bangladesh/district/38ywyqdeys>. [Accessed: 29-Oct-2024].

[2] <https://railnews24.com/2024/12/04/1381>

[3] <https://www.kalbela.com/country-news/88733>. [Accessed: 29-Oct-2024].

[4] https://thefinancialexpress.com.bd/national/country/turntable-made-first-for-locomotives-and-coaches#google_vignette

[7] Jamuna TV [Online]:https://www.youtube.com/watch?v=BJMj9Qt_p94

[8] DBC News [Youtube], https://www.youtube.com/watch?v=_qhaam1B1Ek

[9] ATN News Live [Youtube], <https://www.youtube.com/watch?v=S7H2sORIGjk>

[10] Somoy TV, [Youtube], <https://www.youtube.com/watch?v=jJ2Ju9FfmxM&t=1s>

[11] RTV, [Youtube], <https://www.youtube.com/watch?v=6V9Fh5gGcIM&t=125s>

[REDACTED FOR PUBLICATION]

Would you like to add an additional webpage link?

Yes



Would you like to add an additional supporting document?

No

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