

## **Manila Metro Rail Transit Line 3 Rehabilitation & Maintenance Project**

**[Mitsubishi Heavy Industries Engineering, Ltd. TES Philippines, Inc. Mitsubishi Heavy Industries Transportation and Construction Engineering, Ltd.]**

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TES Philippines, Inc.: 4 persons, Mitsubishi Heavy Industries  
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The Manila Metro Rail Transit System Line 3 (MRT-3), operating in Metropolitan Manila, Philippines, was constructed by Mitsubishi Heavy Industries, Ltd. (MHI), in partnership with Sumitomo Corporation, as an urban transportation system, comprising 13 stations and 17 kilometers of double track line.

Since the commencement of full operation in 2000, TES Philippines, Inc., (a MHI group company) provided maintenance services until 2012, during which period the line was utilized as a major transportation service for the residents of Metropolitan Manila.

However, the operator ended the maintenance contract in 2012, after which the residents began to be inconvenienced due to regular breakdowns, sometimes requiring the unloading of passengers. During this period the operating rate declined. In parallel, growing motorization of the region as an alternative method of transportation made the region's severe traffic congestion worse, leading to increased greenhouse gas emissions, which became a social issue.

Under such situation, and upon request from the government of the Philippines, Mitsubishi Heavy Industries Engineering, Ltd. (MHIENG), in partnership with Sumitomo Corporation, commenced a Rehabilitation & Maintenance service in 2019. During the rehabilitation work, MHIENG conducted overhauling of ageing vehicles, repairing of power supply systems, upgrading of signal & communication systems and replacement of track rails without disruption to the regular operation of the entire system.

Despite being forced to suspend the work due to the COVID-19 pandemic, MHIENG successfully completed the rehabilitation work in November 2021, within the contractual period.

By undertaking this rehabilitation work, MHIENG succeeded in restoring the MRT-3, an essential service in the region, back to a safe and reliable status.

In addition to the rehabilitation work, the MHI Group is implementing an on-going maintenance service. This seamless service, achieved by the continuous export of expertise, helps boost the system's reliability enhanced by the rehabilitation work, and has been recognized as a new form of international contribution.



MRT3 Train Map



Vehicle before and after overhaul



Rehabilitation completion ceremony attended by Philippines President and Japanese Ambassador



Project members (MRT3 Depot)