



CHAKR BCM-RECD

BALLAST CLEANING MACHINE/ TRACK MACHINE

Engineered RECD for effective PM reduction from diesel engines in all type of Track Mahines (including BCM)



KEY FEATURES

CUSTOMIZED DEVICE

- Engineered for in-use **track machine** under **operating conditions**.
- Built with **corrosion-resistant materials** and **robust sealing technologies**.
- **Modular architecture** with **quick-release fasteners** and integrated dampers.
- Enables **easy installation, inspection, maintenance, and repair**.

TECHNICAL BENEFITS

- Achieves **>90% reduction** in **CO, HC, and PM**.
- Delivers **significant air-quality improvement** and lower environmental impact.
- Ensures **no adverse impact** on the **diesel engines**.
- Maintains **reliable, efficient operation** while meeting applicable emission norms.

CUSTOMIZABLE DESIGN

- **Highly configurable layout** tailored to the respective machines geometry.
- Designed to accommodate **site-specific space constraints**.
- Ensures **proper fitment** without **engine or system modifications**.

Validated and Tested by IIT Delhi



प्रो. सुर्यनारायण विक्रान्त कर
सहायक प्रोफेसर
Prof. Suryanarayana Vikrant Karra
Assistant Professor

भारतीय प्रौद्योगिकी संस्थान दिल्ली
INDIAN INSTITUTE OF TECHNOLOGY DELHI
Department of Materials Science & Engineering
हाउस खास, नई दिल्ली-110016, भारत
Hauz Khas, New Delhi-110016, India
दूरभाष/टेल: +91-9573365386
ईमेल/E-mail: karvikrant@mse.iitd.ac.in ; k.s.n.vikrant@gmail.com

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To,
The Railway Board,
Indian Railways,
New Delhi.

Dear Sir/Madam,

This letter serves to acknowledge the performance validation of the "Retrofitted Emission Control Device (RECD)-Indian Railways BCM-371 NR Machine."

The stack emission testing was carried out by ITS Testing Laboratory Private Limited, a NABL-accredited laboratory compliant with ISO/IEC 17025. The evaluation was conducted following established Indian Standards, including:

- IS 13270 for Particulate Matter (PM),
- IS 13270 for Carbon Monoxide (CO), and
- IS 5182 (Part 17) for Hydrocarbons (HC).

Based on the reported results, the retrofitted emission control device demonstrates stable, consistent, and repeatable performance across multiple test runs. The observed consistency indicates that the RECD operates reliably under normal operating conditions, without any adverse impact on the functioning or performance of the BCM-371 NR machine.

We acknowledge the systematic approach adopted for testing and validation, and the results presented in the report. These findings provide confidence in the effectiveness and operational reliability of the RECD solution.

Sincerely,

S. V. Vikrant

Suryanarayana Vikrant Karra

INSTALLATION OF RECD FOR BCM AT INDIAN RAILWAYS



Contact Us

+91 9810955453 , +91 9667017998



vikram.bisht@chakr.in , marketing@chakr.in