

# PEMS Pro-Cart Vehicle

## (Mobile Emission Measurement Van & Workstation)





# Need and Purpose

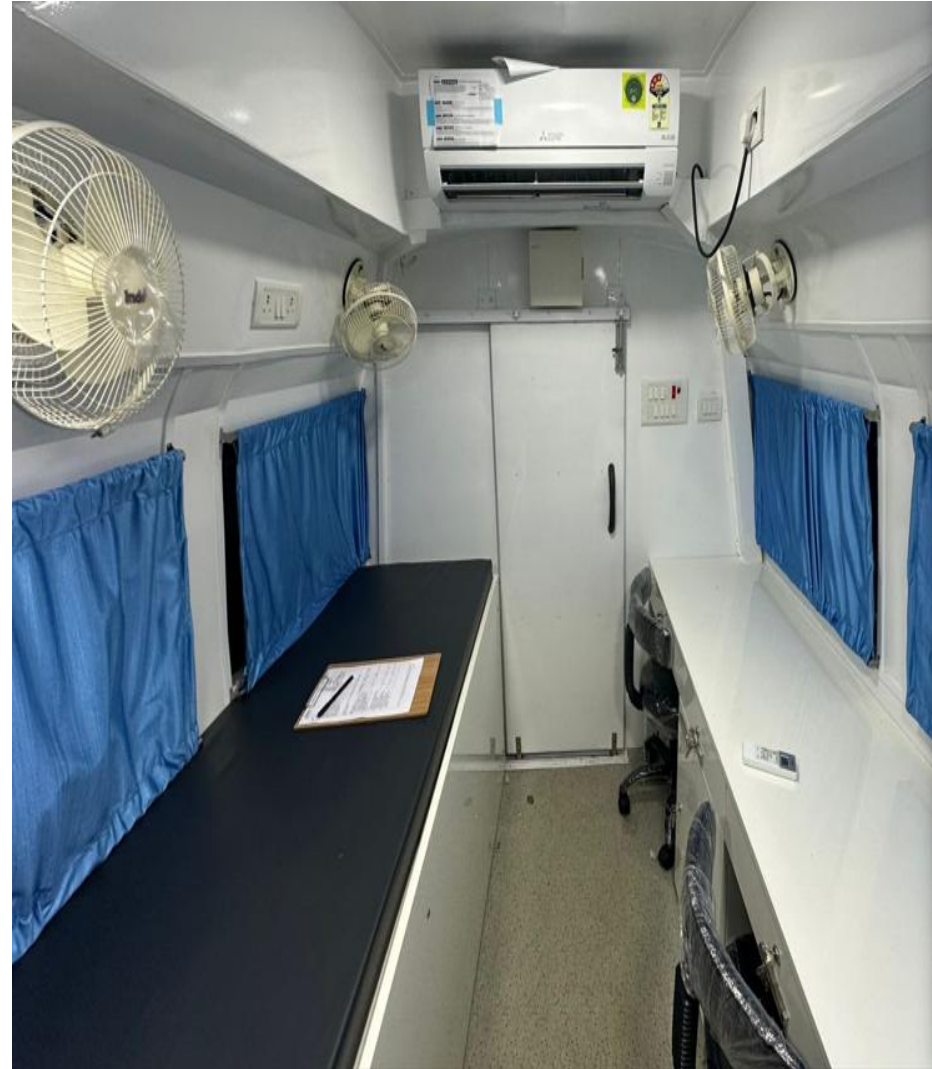
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- As per Regulatory requirement of Automotive BSVI and upcoming Non road CEV/TREM stage V norm requires Real Drive Emission Measurement(RDE) using Portable Emission Measurement System (PEMS) on Customers Vehicle/Machine.
- Heavy duty ISC(In-Service Conformity) and Non road ISM (In-Service Monitoring) testing needs to be carried out at different locations/Test Sites across India.
- OEM's demand for doing PEMS test at site with ARAI equipment
- The PEMS Pro-Cart is designed to ensure safe and efficient transportation of the PEMS system to the test site. Its integrated workstation offers a dedicated space for real-time monitoring and data analysis, while providing protection for personnel against harsh environmental conditions during field testing.



# Salient Features

- Working table for 02 Engineers / Customer representative with Power outlets for Laptop/PC's.
- Sitting space for up to 03 additional personnel.
- AC facilitates working condition for instrument and PCs to monitor and analyse test data during on site testing.





## Salient Features

- Crane with 1 Ton lifting capacity for smooth loading and unloading of PEMS Cabinet along with PEMS Equipment at Testing site.
- Storage space for safe carrying of Gas cylinders along with storage area ventilation for safety.







## Salient Features

- Portable genset and air-conditioning outdoor unit integrated with vehicle and ensured its safe storage.
- Genset provides power supply for working of Equipment's/laptops/lights etc. at remote test sites.
- Engine powered cabin air-conditioner for use during vehicle operation.





## Summary

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- 1<sup>st</sup> of it's kind remote work station for PEMS testing (Across Testing Agency and Industry)
- RDE tests can be conducted on field such as mines, construction sites, farms for Non-Road applications.
- RDE route development across India.
- Backup vehicle for on-road tests.
- Test Data monitoring and analysis
- On-site equipment maintenance.
- Workstation for customers and ARAI officials at remote testing site.