

INDIAN RAILWAYS FIXES MAJOR CONSTRAINT IN RUNNING TRAINS WITH HOG TECHNOLOGY

Relevant for: Indian Economy | Topic: Infrastructure: Railways

Indian Railways in a bid to reduce its dependency on fossil fuel has started to equip its Linke Hofmann Busch(LHB) coaches with '[Head on Generation](#)' (HOG) system.

Under the HOG system electricity supply to run fans, lights, ACs and other on-board equipment on coaches are powered by electric locomotive without need of running diesel generator.

With reduced requirement of on-board diesel generator set, released space in power car cum guard van can be used for making compartment for differently abled person and additional space for parcel. Such coaches are already under manufacture by railway coach factories and expected in service very soon.

However for power supply arrangement in HOG rake from locomotive it is utmost important that HOG system of rake and locomotive are fully functional and free from defect to avoid any detention and inconvenience to passengers.

Since locomotive and coaching rakes are maintained at different locations hence combined testing of HOG system is possible only when locomotive is attached to rake and in case of any defect chances of train getting late increases.

Indian Railways' Electric locomotive shed Kanpur has now come up with an innovative solution to overcome this constraint.

In a statement issued by the North Central Railway zone of Indian Railways it said, " The Electric locomotive shed Kanpur through provision of "test switch" in HOG circuitry which bypasses need of rake being attached to loco to test functioning of HOG convertor. "

Through this innovative arrangement now locomotive HOG system can be tested independently thus any possible defect can be rectified in time,"it further added.

North Central Railway zone is using HOG technology in 16 out of total 17 primary LHB rakes and saving 75,000 liters diesel annually through reduced running of diesel generator sets.

Similarly,41 locomotives of North Central railway are fitted with HOG convertor to cater all HOG rakes in different primary train on NCR including Prayagraj Express, Shramshakti Express, Humsafar Express, Shatabdi Express, Chambal Express,etc.

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