

GAIL (India) Limited

Initiative on Technology Demonstration

The collaborative R&D works of GAIL (India) Limited are carried out in the thrust areas of:

- Pipeline asset monitoring and integrity management
- Natural gas utilization/ value addition
- CO₂ and waste valorisations.

GAIL had incurred a total R&D expenditure of INR20.12 crore in the financial year 2020/21. This includes INR10.92 crore on developmental projects; INR9.20 crore on Sponsored Collaborative R&D works with various Research Institutes and CoE-OGE established at IIT Bombay by Oil and Gas CPSU's.

The R&D team of GAIL, in association with IIT Bombay, is working on the following technologies:

- Investigating the combustion and emission phenomena of dual fuel (CNG and diesel)
- Light-duty high-speed direct injection
- Compression ignition engines
- Minimisation of nitrous oxide, particulate matter (PM) and CO₂ emissions
- Fuel efficiency improvements