



BPCL Collaborates with BluJ Aerospace, ANERT, and CIAL to Launch the World's First Hydrogen-Powered VTOL Aviation Ecosystem

- **Pioneering Green Hydrogen in Aviation for Sustainable and Efficient Air Mobility**

Kochi, March 12, 2025: In a significant advancement in sustainable aviation, Bharat Petroleum Corporation Limited (BPCL) has entered into a quadripartite Memorandum of Understanding (MoU) with BluJ Aerospace, the Agency for New and Renewable Energy Research and Technology (ANERT), Government of Kerala, and Cochin International Airport Limited (CIAL) to develop the first hydrogen-fueled Vertical Take-off and Landing (VTOL) aircraft ecosystem globally.

Signed in Kochi on March 12, 2025, this pivotal agreement aligns with India's goal of attaining Net Zero emissions by 2070 and represents a significant stride in aviation innovation. The project aims to transform urban and regional air mobility through the integration of green hydrogen-powered VTOL aircraft, enhancing speed, reducing noise, and improving efficiency while substantially cutting down carbon emissions.

BPCL's Contribution to Hydrogen-Powered Aviation

In its crucial role, BPCL will establish hydrogen refuelling infrastructure for VTOL aircraft developed by BluJ Aerospace via its forthcoming Hydrogen Refueling Stations (HRS) in Kochi and Trivandrum. Furthermore, BPCL will engage in R&D endeavours focused on designing and developing an Indigenous Proton Exchange Membrane (PEM) Hydrogen Fuel Cell characterized by high power density to facilitate vertical lift-off, thereby advancing India's hydrogen technology capabilities.

Strategic Alliance for a Sustainable Future

The MoU was executed by Shri Ranjan Nair, Business Head – Renewable Energy, BPCL, Shri Narendra Nath Veluri, IFS, CEO – ANERT, Shri Maruthi Amardeep Sri Vatsavaya, CEO – BluJ Aerospace, and Shri Manu G, Airport Director – CIAL with notable attendees including Shri K R Jyothilal, IAS, Additional Chief Secretary, Department of Energy, Government of Kerala, Shri Bhupinder Singh Bhalla, IAS, Ex-Secretary, MNRE, Government of India, Dr. Bharat L. Newalkar, CGM (R&D). Senior officials from both the state and central governments, ANERT and CIAL were also present.

A Milestone in the Future of Clean Aviation

Commenting on this landmark partnership, Shri G. Krishnakumar, Chairman & Managing Director, BPCL, remarked, "Green hydrogen holds the potential to transform aviation and urban mobility. This partnership reflects our resolve to lead in clean energy solutions that are innovative and practical for a sustainable future."

Promoting Hydrogen Mobility Through Kerala's Hydrogen Valley Program

BPCL's upcoming Hydrogen Refuelling Stations (HRS) in Kochi and Trivandrum will be strategically positioned to facilitate research and pilot projects within Kerala's Hydrogen Valley Program. These stations will be essential in promoting commercial hydrogen applications and encouraging the wider uptake of hydrogen-powered transportation solutions.



With this initiative, **BPCL strengthens its position as a leader in green energy solutions**, setting the groundwork for **India's progression towards hydrogen-based aviation and transportation**.

About Bharat Petroleum Corporation Ltd. (BPCL):

Fortune Global 500 Company, Bharat Petroleum is the second largest Indian Oil Marketing Company and one of the integrated energy companies in India, engaged in refining of crude oil and marketing of petroleum products, with presence in the upstream and downstream sectors of the oil and gas industry. The company attained the coveted Maharatna status, joining the club of companies having greater operational & financial autonomy.

Bharat Petroleum's Refineries at Mumbai, Kochi and Bina have a combined refining capacity of around 35.3 MTPA. Its marketing infrastructure includes a network of installations, depots, fuel stations, aviation service stations and LPG distributors. Its distribution network comprises over 22,000+ Fuel Stations, over 6,250 LPG distributorships, 525 Lubes distributorships, 123 POL storage locations, 54 LPG Bottling Plants, 63 Aviation Service Stations, 5 Lube blending plants and 4 cross-country pipelines as on 31.08.2024.

Bharat Petroleum is integrating its strategy, investments, environmental and social ambitions to move towards a sustainable planet. The company has chalked out the plan to offer electric vehicle charging stations at around 7000 Fuel Stations over next 5 years.

With a focus on sustainable solutions, the company is developing an ecosystem and a road-map to become a Net Zero Energy Company by 2040, in Scope 1 and Scope 2 emissions. Bharat Petroleum has been partnering communities by supporting several initiatives connected primarily in the areas of education, water conservation, skill development, health, community development, capacity building and employee volunteering. With 'Energising Lives' as its core purpose, Bharat Petroleum's vision is to be an admired global energy company leveraging talent, innovation & technology.

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