Press release

Praj unveils technology to produce biogas from biomass

- Demonstration facility inaugurated by Hon. Union Min. Prakash Javadekar

Pune, India, November 06, 2020

Praj Industries' demonstration plant that deploys innovative technology for the production of Compressed Biogas (CBG) was inaugurated today by Union Min. Shri Prakash Javadekar. Located in the Praj Matrix R&D campus, the plant deploys Praj's technology which utilises a proprietary microbial consortium made from feedstock such as agri residues and press mud. Also known as Renewable Natural Gas or RNG, CBG forms part of Praj's Bio-Mobility™ portfolio which uses captive bio based feedstock to produce carbon neutral transportation fuel across all modes of mobility.

India imports more than 80% fossil fuel, which is likely to increase to 90% in the near future. Transportation is the single largest user of fossil oil, and third largest GHG emitter. Further, with India committed to reduce its GHG emissions by 30-35% by 2030, it has become imperative to commercialise alternative indigenous energy sources derived from advanced biofuels technologies. Moreover, biofuels like CBG produced from agricultural crop waste is also an alternative to the burning of agri residue after harvesting.

Since last 20 years, Praj has executed more than 50 biogas plants; most of them operating on industrial waste streams. Its latest technology which has multi-feed flexibility is automated and offers several other benefits through its signature L-EPC (Licence – Engineering procurement and construction) and O&M model. Additional advantages include round the year biogas production, best in class yields, more efficient degradation and gas upgradation, and low utility footprint. The plant will also co-produce high quality organic manure certified by Natural Organic Certification Agro (NOCA).

Complimenting this initiative, Shri. Javadekar, Minister of Environment, Forest and Climate Change; Minister of Information and Broadcasting; and Minister of Heavy Industries and Public Enterprises said, "I am pleased to inaugurate this innovative and indigenous technology that helps secure a cleaner and greener world. Praj's CBG technology is one of the most sustainable solutions to combat the impact of air pollution on health and environment because of stubble burning. The conversion of agri residue and biomass to biofuel is also in keeping with the government's goals towards Atma Nirbhar Bharat."

Speaking on the occasion, Dr. Pramod Chaudhari, Executive Chairman, Praj Industries, said, "The CBG demo plant is another step closer to reducing carbon emissions and pollution. Besides reducing the import of natural gas and crude oil, our technology will boost entrepreneurship, economy and employment in rural India. This project is aligned with our endeavours towards energy self-reliance and supports the national commitment in achieving climate change targets".

Biofuels, a renewable transportation fuels in gaseous and liquid form complements fossil fuel sources. Govt of India launched the National Biofuels Policy 2018 and Sustainable Alternative Towards Affordable Transportation (SATAT) initiative to promote Compressed Biogas (CBG) as an alternative, green transport fuel. Under this initiative, 5,000 CBG plants are expected to be rolled out across India in a phased manner. They are expected to produce 15 million tonnes of CBG per annum, which is about 40% of current CNG consumption of 44 million tonnes per annum in the country, generating direct employment for 75,000 people and producing 50 million tonnes of bio-manure.

Caption: Demo plant for conversion of biomass to Compressed Biogas (CBG) at Praj Matrix inaugurated by Shri. Prakash Javadekar on Nov 6, 2020

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About Praj Industries Limited:

Praj, India's most accomplished process engineering company in the Bioeconomy, is driven by innovation and integration capabilities. Over the past three decades, Praj has focused on the environment, energy, and agri-process industry, with over 750 customer references spanning 75 countries across 5 continents.

Bio-mobility™ and Bio-Prism™ are the mainstays of Praj's contribution to the global Bioeconomy. The Bio-Mobility portfolio offers technology solutions globally to produce renewable transportation fuel, thus ensuring sustainable decarbonization through circular bioeconomy. The company's Bio-Prism™ portfolio comprises of renewable chemicals and materials solutions, promises sustainability, while reimagining nature.

Praj Matrix, the state-of-the-art R&D facility, forms the backbone for the company's endeavours towards a clean energy-based Bioeconomy.

Praj's diverse portfolio comprises Bio-energy plants, Zero liquid discharge plants, Critical process equipment & skids for oil & gas industries, Breweries and High purity water systems.

Led by an accomplished and caring leadership, Praj is a socially responsible corporate citizen. Praj is listed on the Bombay and National Stock Exchanges of India.

Note: *Some of the statements made in the release could be forward-looking in nature. Such forward-looking statements remain subject to risks and contingencies particularly concerning but not limited to governmental policies, economic developments and technological factors. This may cause actual performance to differ materially from that observed through the relevant forward-looking statement. Praj Industries and ARAI will not in any way be responsible for action taken based on such forward-looking statements and undertakes no commitment to update these forward-looking statements publicly, to reflect changed realities*