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# DST supports Bioneemtec India for commercialisation of green chemistry-based pharma manufacturing technologies

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**To accelerate the development of indigenous capabilities in API manufacturing and next-generation therapeutic formulations**



The Technology Development Board (TDB), Department of Science & Technology (DST), Government of India, has extended support to Bioneemtec India, based in Chennai, for the project titled “Manufacturing of Minoxidil, Tranexamic Acid, Dequalinium Chloride, their Intermediates and Drug Liposomes.”

The project seeks to commercialise indigenous green chemistry technologies for the production of critical pharmaceutical ingredients and advanced drug delivery systems, contributing to import substitution, sustainable manufacturing, and healthcare security.

The project focuses on establishing advanced manufacturing capabilities for pharmaceutical intermediates, Active Pharmaceutical Ingredients (APIs), and novel drug delivery systems through a combination of batch and continuous-flow chemistry technologies.

By adopting modern process technologies, the initiative aims to improve production efficiency, product quality, operational safety, and environmental sustainability while reducing dependence on imported pharmaceutical intermediates.

A key component of the project is the commercialisation of an indigenous process for manufacturing Tranexamic Acid, an important therapeutic molecule used in the management of bleeding disorders. Developed using a cost-effective and environmentally responsible synthesis route, the technology is designed to deliver high-purity products while minimizing waste generation and process complexity. The project will also support the domestic production of Minoxidil and Dequalinium Chloride along with their key intermediates, strengthening local manufacturing capabilities in pharmaceutical value chains that presently depend substantially on imports.