

Nonexdigm





The Government of India (Gol) has focused on encouraging manufacturing in India and introducing innovative technologies. It has been instrumental in encouraging industries to 'Make in India' for domestic consumption and the world at large. The GoI has been regularly taking policy and regulatory interventions to help the industry manufacture and innovate in India. The AtmaNirbhar Bharat initiative, Production Linked Incentive Schemes, National Medical Device Policy, and New Drugs and Cosmetics Act (Draft) are examples of such initiatives. Taking forward this approach, the Gol last month announced the Promotion of Research and Innovation in Pharma-MedTech (PRIP) Scheme 2023. Under this scheme, the GoI has allocated USD 600 million over a five-year span for research and innovation activities in the field of Pharmaceuticals and Medical Devices.

Pharmaceuticals is a research-intensive industry and requires continued Research and Development (R&D) to not only remain competitive but also to grow the industry further. The Indian Pharmaceutical industry has accomplished significant milestones over the past four decades, the biggest of them being dubbed as the 'Pharmacy of the World'. Over this period, Indian pharmaceutical companies have focused on generic drugs and held leadership for over two decades. The generic drug industry, while being complex, does not require R&D in comparison to patented drugs or creating New Chemical Entities (NCEs). Hence, the R&D spend has hovered around 3-5% of sales at industry levels which rises up to 7% for the Top 10 companies. There is an urgent need to increase this spending significantly to not only remain competitive but also to take the next step in the value chain. Recognizing this need, the Gol has identified five priority areas that hold the potential for the future and will help the industry leapfrog into the future.



The PRIP scheme also covers the Medical Devices industry. Along with the Pharmaceuticals industry, Medical Devices are an integral part of the Healthcare sector. The industry currently has a market size of around USD 11 billion and is expected to reach USD 50 billion by 2047. The industry has witnessed sustained growth if we exclude the COVID years. It is expected to continue to grow in the range of 15-18% CAGR for the next decade. It is an import-dependent industry with more than 70% of devices being imported even now.

To help reduce this number, the Gol has taken several steps as they did for pharmaceuticals

(devising New Medical Devices Rules, 2017 and the Medical Device Policy, 2023, and topping it up with Production Linked Incentives (PLIs) to encourage domestic manufacturing. The missing piece in this reform was R&D. With the PRIP scheme, the government is addressing that need while also providing the industry with an opportunity to lead the world in affordable but innovative technologies in the field of Medical Devices.

We have compiled a list of key features of the scheme below:

Sr. No.	Scheme Features	Promotion of Research and Innovation in Pharma-MedTech Sector		
1	Release Date	16 August 2023 The scheme was notified vide Gazette Notification No. 50018/2/2022-NIPER – Scheme for Promotion of Research and Innovation in Pharma-MedTech Sector (PRIP)		
2	Scheme Objectives	The objective of the scheme is to transform the Indian Pharma-MedTech sector from cost-based to innovation-based growth by strengthening the research infrastructure in the country. The aim of the scheme is to promote industry academia linkage for R&D in priority areas, inculcate a culture of quality research, and nurture our pool of scientists. This will lead to a sustained global competitive advantage and contribute to quality employment generation in the country.		
3	Components	Component A - Strengthening the research Infrastructure Component B - Promotion of research in the Pharma-MedTech sector		
4	Total Funding Outlay	 Component A Strengthening the research infrastructure – Setting up Centers of Excellence (CoEs) at National Institutes of Pharmaceutical Education & Research (NIPERs) – USD 84 million Component B Category B I – USD 136 million Category B II – USD 360 million Category B III – USD 15 million 		
5	Features of Component A	 It is proposed to establish Centers of Excellence (CoEs) in the seven existing NIPERs at Mohali, Ahmedabad, Hyderabad, Guwahati, Kolkata, Hajipur, and Raebareli over a period of five years in the following specializations: NIPER Mohali - Anti-Viral and Anti-Bacterial Drug Discovery and Development NIPER Ahmedabad - Medical Devices NIPER Hyderabad - Bulk Drugs NIPER Kolkata - Flow Chemistry and Continuous Manufacturing NIPER Raebareli - Novel Drug Delivery System NIPER Guwahati - Phyto-pharmaceuticals NIPER Hajipur - Biological Therapeutics 		

Sr. No.	Scheme Features	Promotion of Research and Innovation in Pharma-MedTech Sector
6	Eligible Areas / Products under Component B	 Area/Product 1 New Chemical Entity (NCE) New Biological Entity (NBE) Phyto-pharmaceuticals (natural product) Area/Product 2 - Complex Generics: Products with A complex active ingredient(s) (e.g. peptides, polymeric compounds, complex mixtures of APIs, naturally sourced ingredients, etc.) A complex formulation (e.g. liposomes, colloids) A complex formulation technology and manufacturing processes permeation enhancers with continuous flow manufacturing A novel route of delivery (e.g. locally acting drugs such as dermatological products, complex ophthalmological products and optic dosage forms that are formulated as suspensions, emulsions, or gels) A complex/novel dosage form (e.g. modified release formulations, transdermal, metered dose inhalers, extended-release injectables, etc.) Innovative drug-device combination products (e.g. medicated catheters, auto-injectors, metered doses, inhalers, etc.) Area/Product 3 - Precision Medicine (targeted innovative therapeutics): Any approach that uses information about a person's genes or proteins to prevent, diagnose, or treat a disease Stem cell therapy, gene therapy Bio-markers Area/Product 4 - Medical Devices: Al/ML based Medical Devices with software development, Software as Medical Devices (SaMD) and Software in Medical Devices (SiMD) Medical diagnostics and screening devices with genetic technology Robotic medical devices for surgical procedures Medicinal products intended for diagnosis, prevention, or treatment of life-threatening, very serious diseases, or disorders that are rare (about 450 rare diseases are recorded in India in tertiary care hospitals) Area/Product 6 - Drug Development for Antimicrobial Resistance (AMR) Prioritization will be done within and among categories based on future potential, opportunities, and national importance
7	Duration of Scheme	The tenure of the scheme is from FY 2023-24 to FY 2027-28

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8	Scheme Financial Details	Group of Participants	No. of projects to be selected	Funding (over five years)
		Category B I	9	 Nine established pharma companies who are willing to carry out research in six priority areas will be selected for academic collaboration in Gol institutes of national repute The companies would avail the facilities of the research infrastructure (lab, equipment, support staff, etc.) available at national institutes. In addition, the company must provide training to a selected number of students/scientists of the institutes Investments made by the companies on the projects at the institutes would be supported with financial support at the rate of 35% of the total cost incurred or USD 15 million, whichever is less on a milestone basis (from TRL 1 to reach TRL 9) over a period of five years under the benefit-sharing principle
		Category B II	30	 Funding would be provided to thirty research projects in six priority areas that are at successfully validated level (TRL 5 and above) to reach TRL 9 at the rate of 35% of the cost or USD 12 million, whichever is less over a period of five years under the benefit-sharing principle The projects would be selected on the basis of TR level Sr. No TRL Level Percentage of Funding 5 to 7 30% 7 to 9 40%
		Category B III	125	 Funding would be provided to research projects in six priority areas to help Indian start-ups and MSMEs reach TRL 4 Funding up to USD 120,000 would be provided per project over a period of five years in a milestone manner from ideation to proof of concept on a royalty-sharing basis
9	Benefit-Sharing for Category B I & II	 The funding distance of the funding with the following with t	sbursed for the ding refunded fu vays: the net sale of t	projects will be recovered through benefit- nding, if any) either through royalty or equity in the product/technology till the patent is

Sr. No.	Scheme Features	Promotion of Research and Innovation in Pharma-MedTech Sector		
9	Benefit-Sharing for Category B I & II	 Equity (not less than 100% of the Department of Pharmaceuticals (DoP) support provided) The DoP may seek payment by way of a one-time transaction in the occurrence of events as under: The fund recipient entity successfully commercializes the product/technology supported through the DoP-PRIP scheme Licensing/assignment/technology-transfer of the project developments to any third party where the 'Fund Recipient' is not undertaking direct market reach which also be treated as successful Commercialization and the Fund Recipient shall be liable for benefit-sharing with the DoP If the 'Fund Recipient' intends to transfer or sell/assign the interest of project developments, it shall take prior written permission from the DoP before doing so. The DoP reserves the right to realize benefit-sharing in case of a one-time transaction as will be mutually agreed while granting such permission If the 'Fund Recipient' licenses the interest of project developments for periodical payments including royalty, then the 'Fund Recipient' can also continue to share the benefits as prescribed by the DoP to be met from the periodical proceeds received from licensees/sub-licensees In cases of significant changes such as public offering of shares, raising of venture funds, change in shareholding pattern, change in the legal entity status, merger and acquisition, etc., the DoP reserves the right to enforce the benefit-sharing obligation or the 'Surety Bond' and recover the remaining benefit-sharing on the first of any of the following two events to occur: 10% royalty has been paid till the patent is effective or in the form of equity or In case the project is declared unsuccessful/commercially unviable, the remaining assistance would not be released and any unutilized amount as on date would be refunded to the Department of Expenditure within 30 days of the declaration 		
10	Project Appraisal and Approval Committee	A committee under the chairpersonship of the Secretary of the Department of Pharmaceuticals will be set up with representatives (not below the level of Joint Secretary) from DST, DSIR, DBT, DGHS, DHR, AYUSH, and CDSCO, which will examine and approve the projects, consider and approve claims for disbursements, and take appropriate steps to contain the expenditure within the prescribed outlay		
11	Implementation Agency	The PMA would be responsible for the receipt of applications, appraisal of the applications, verification of eligibility threshold criteria, and examination of claims for disbursement of incentives. Compilation of the data regarding the progress and performance of the scheme, including cumulative investment in research and investment in priority areas of research in Pharma MedTech, is to be done by selected applicants		
12	Eligible Applicants	Application under the scheme can be made by any company registered in India		

Conclusion

Any nation's development is built on foundations of innovation. A nation that does not encourage research and development will not climb the development ladder quickly. While India has been conducting R&D at its own pace considering the restraints of resources and knowledge, it needed a catalyst to accelerate development. The PRIP scheme will act as catalyst that will expedite R&D in the country and more importantly, build a culture of sustained research and innovation. This also marks a paradigm shift in the Healthcare sector from a foundation of cost-centric competitiveness to one that will progress on innovation-driven growth. The policy takes a first principles approach of understanding the basics of Pharmaceuticals and Medical Devices products in an academic environment and then building on that knowledge by collaborating with the industry, leading to innovative commercial products. Establishing specific CoEs at NIPERs with in-house research graduates will also assist the Pharmaceutical and Medical Devices industry with skilled manpower for continuing R&D efforts. Component B of the scheme covers everything from complex generics to NCEs, providing ample opportunities to organizations from across the spectrum to participate and innovate in India.

The PRIP scheme in conjunction with the Bulk Drug and Medical Device Parks alongside PLI schemes will augment the entire value chain of the domestic manufacturing industry. The Gol has provided the Healthcare sector with a strong base to not only maintain its leadership position in Pharmaceuticals but also emerge as a strong player in Medical Devices industry. It is crucial to mention that such initiatives open India to the world in the form of skilled labor, increased capital inflows, and shifting manufacturing bases as over the next few years, India will have a complete ecosystem for healthcare.

About Nexdigm

Nexdigm is an employee-owned, privately held, independent global organization that helps companies across geographies meet the needs of a dynamic business environment. Our focus on problemsolving, supported by our multifunctional expertise enables us to provide customized solutions for our clients.

We provide integrated, digitally driven solutions encompassing Business and Professional Services, that help companies navigate challenges across all stages of their life-cycle. Through our direct operations in the USA, Poland, UAE, and India, we serve a diverse range of clients, spanning multinationals, listed companies, privately-owned companies, and family-owned businesses from over 50 countries.

Our multidisciplinary teams serve a wide range of industries, with a specific focus on healthcare, food processing, and banking and financial services. Over the last decade, we have built and leveraged capabilities across key global markets to provide transnational support to numerous clients.

From inception, our founders have propagated a culture that values professional standards and personalized service. An emphasis on collaboration and ethical conduct drives us to serve our clients with integrity while delivering high quality, innovative results. We act as partners to our clients, and take a proactive stance in understanding their needs and constraints, to provide integrated solutions. Quality at Nexdigm is of utmost importance, and we are ISO/ISE 27001 certified for information security and ISO 9001 certified for quality management.

We have been recognized over the years by global organizations, like the International Accounting Bulletin and Euro Money Publications, World Commerce and Contracting, Everest Group Peak Matrix® Assessment 2022, for Procurement Outsourcing (PO) and Finance and Accounting Outsourcing (FAO), ISG Provider Lens[™] Quadrant 2023 for Procurement BPO and Transformation Services and Global Sourcing Association (GSA) UK.

Nexdigm resonates with our plunge into a new paradigm of business; it is our commitment to *Think Next*.

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