



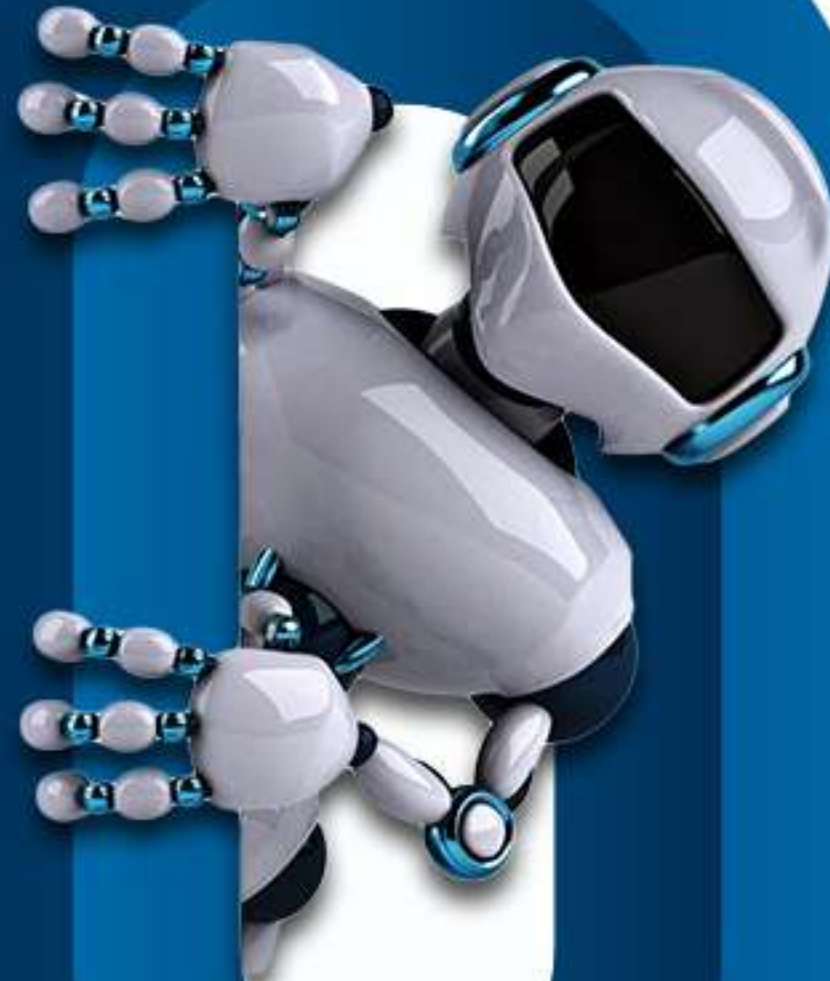
प्रौद्योगिकी विकास बोर्ड

TECHNOLOGY DEVELOPMENT BOARD

DEPARTMENT OF SCIENCE & TECHNOLOGY

GOVERNMENT OF INDIA

**TDB
SUPER**



**CATALYSTS
OF INDIA'S
TECHNOLOGICAL
LEAP
(2021-25)**

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On the occasion of the 27th National Technology Day 2025, the Technology Development Board (TDB) proudly presents a compendium showcasing the "Super-30" technologies funded during 2021–2025. This period marks significant progress in TDB's efforts to drive technological innovation over the past half decade.

The featured technologies have received financial assistance from TDB across diverse sectors, including healthcare, information technology, defence and civil aviation, road transport, textiles, agriculture and allied fields, energy, chemicals, and electronics.

This support underscores TDB's steadfast commitment to fostering indigenous innovations that enhance India's capabilities in technology-driven advanced manufacturing.

“

**India will March Ahead Phenomenally
in this Decade which is Hailed as the
Techade for Humanity**

It is a decade of technology

Prime Minister Shri Narendra Modi

”



“

A decade of science based on 3 pillars of self-esteem and empowerment of the scientific community, technology becoming a way of life and success stories in Science & technology have placed India on a world pedestal. ”

Dr Jitendra Singh

Minister of State (Independent Charge)
Ministry of Science & Technology
Ministry of Earth Sciences





“The vision for achieving Viksit Bharat goals by 2047 really depends upon making our country a technological power. And to do that, we have to develop technologies that will address global challenges as well as solve the problems of our country and society”

Prof. Abhay Karandikar

Secretary, Department of Science & Technology
Government of India



“The Super 30 compendium is a testament to India’s deep-rooted scientific potential and entrepreneurial spirit. Each innovation featured here reflects not just technological excellence, but a commitment to societal progress, sustainability, and national self-reliance. At TDB, we remain steadfast in our mission to back bold ideas that shape a better tomorrow”

Sh. Rajesh Kumar Pathak

Secretary, Technology Development Board



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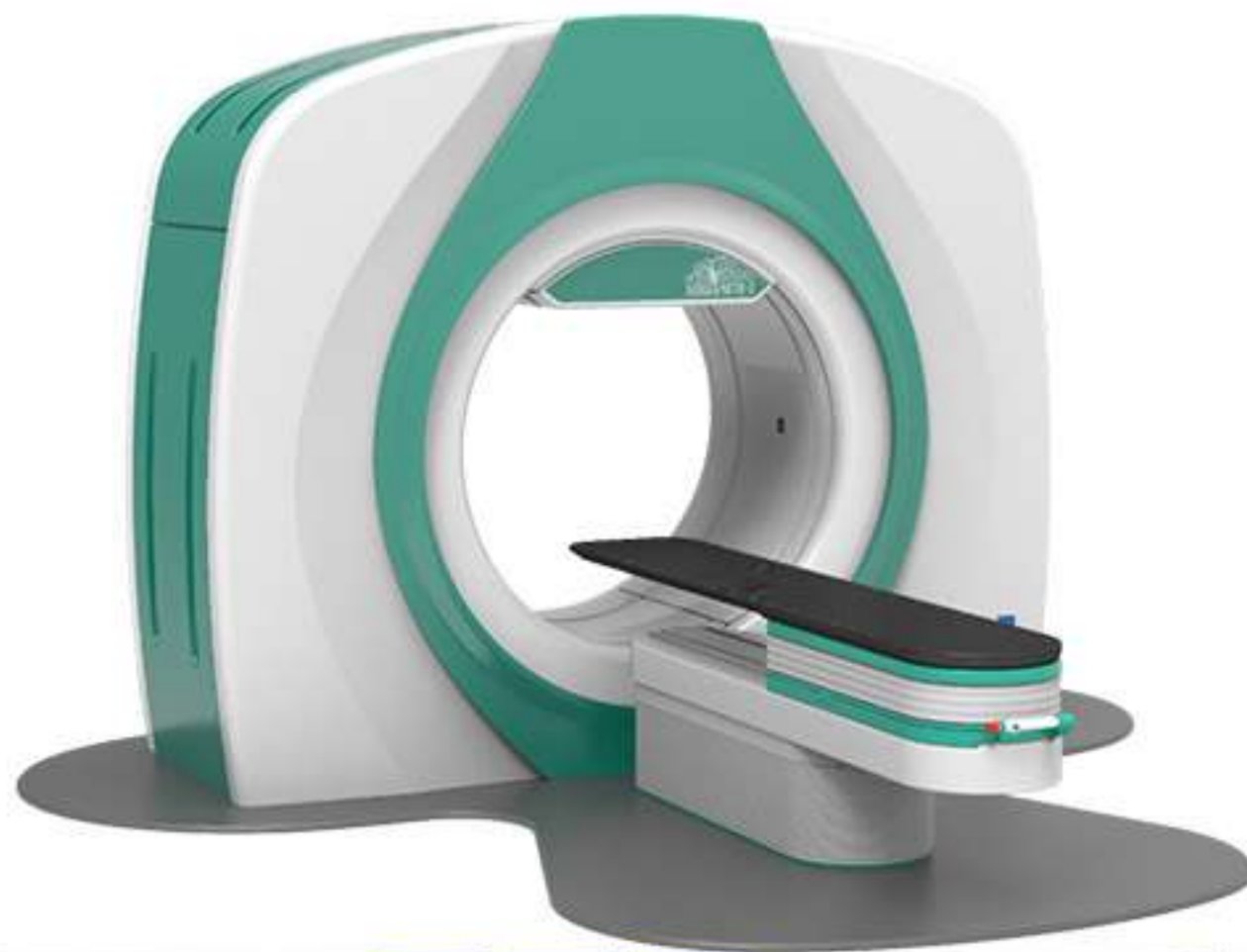
M/s Panacea Medical Technologies Pvt. Ltd, Bengaluru

Development and Commercialisation of S Band Tunable Magnetron for Particle Accelerators

Brief of the Project: Present project relates to the indigenous development of high-powered Magnetron technology for cancer radiation therapy. It envisages Development and commercialisation of the 'S Band Tunable Magnetron for Particle Accelerators', essential for medical linear accelerators (LINACs) used in cancer treatment'.

The Initiative: Siddharth II, developed by Panacea Medical Technologies Pvt. Ltd. is the first Indian linear accelerator to receive both CE marking and US FDA 510(k) clearance—attesting to its compliance with the highest global safety and quality standards. The development and clinical deployment of Siddharth II has positioned India among the few nations capable of producing advanced radiotherapy solutions. TDB supported the present magnetron project using indigenous technology for making the product affordable to common man.

Outcome: This initiative contributes to affordable cancer treatment and positions India as a global manufacturing hub for high-end medical devices, in line with the 'Make in India' and 'Atmanirbhar Bharat' goals.



Total Project Cost
₹ 9.73 cr.



TDB's Assistance
₹ 4.87 cr.



M/s Skyshade Daylights Private Limited,
Hyderabad

Daylight Harvesting Technologies to reduce carbon footprint and improve the building energy efficiency

Brief of the Project: Skyshade Daylights develops innovative daylight harvesting solutions to capture solar energy, reducing electrical consumption by 70-80% and improving energy efficiency in buildings.

The Initiative: The company aims to create Green & Net Zero buildings, aligning with India's commitments to sustainable development and climate change mitigation.

Outcome: This technology will significantly reduce carbon emissions and contribute to India's Net Zero target by 2070, promoting sustainable living and energy solutions.



Total Project Cost
₹ 10.00 cr.



TDB's Assistance
₹ 5.00 cr.



M/s Swajal Water Private Limited, Gurugram

IoT enabled point of use Solar Water Purification Unit for Slums, Villages and High Utility Areas

Brief of the Project: Swajal's patented system, 'Clairvoyant', uses IoT/AI sensors to remotely monitor water purification units, ensuring real-time maintenance. The system uses solar energy to pump water from various sources, purifying it for safe drinking.

The Initiative: Swajal aims to provide purified water at as low as 25 paise per litre, enhancing community ownership and ensuring 24/7 access to clean water.

Outcome: M/s Swajal Water Private Limited, an AI-driven start-up, has developed 'Boon' to advance water purification through innovative technology. With Purify Pro, Boon has eliminated plastic bubble jars in over 1,000 organisations across India and globally, removing 3+ million kg of plastic annually.



Total Project Cost

₹ 6.49 cr.



TDB's Assistance

₹ 3.00 cr.



M/s Kritsnam Technologies Private Limited,
Hyderabad

Commercialization of Dhaara Smart Flow Meter'

Brief of the Project: Dhaara Smart Flow Meter is an IoT-based digital water meter for real-time monitoring of water usage.

The Initiative: To provide tamper-proof, battery-operated smart meters with telemetry for sustainable groundwater management, supporting national water conservation goals.

Outcome: Dhaara Smart Flow Meter will enable real-time monitoring of groundwater extraction, ensuring regulatory compliance while reducing operational costs. Its scalable IoT design supports deployment across industries and regions, promoting sustainable water use at lower monitoring costs.



Total Project Cost

₹ 8.25 cr.



TDB's Assistance

₹ 3.29 cr.



M/s Multi Nano Sense Technologies Private Limited, Nagpur

Commercialisation of Novel Products from Indigenously Developed Patented Hydrogen Sensing & Analysis Technology

Brief of the Project: Manufacturing and commercialisation of indigenously developed and patented hydrogen sensing and analysis technology for leakage detection.

The Initiative: TDB supports the start-up to reduce India's dependency on imported hydrogen leak detection sensors by funding the development of cutting-edge, indigenous hydrogen sensors.

Outcome: Enabled cost-effective, high-quality hydrogen leak sensors, boosting India's energy independence, safety, and net-zero goals by 2070, aligned with the Hon'ble Prime Minister's COP26 vision and the global hydrogen economy.



Total Project Cost

₹ 6.81 cr.



TDB's Assistance

₹ 3.30 cr.



M/s Sapigen Biologix Private Limited,
Hyderabad

Development & Commercialisation of two novel vaccines – Intranasal Covid-19 Vaccine” and “RTS, S Malaria Vaccine

Brief of the Project: Sapigen Biologix focused on the development of India's first Intranasal Covid-19 vaccine and RTS, S Malaria vaccine. The company aimed to establish a state-of-the-art vaccine manufacturing facility in Bhubaneswar.

The Initiative: TDB's financial assistance will aid the commercialisation of these novel vaccines, positioning India as a global leader in vaccine production.

Outcome: The project aimed to produce 100 million doses of the Intranasal Covid-19 vaccine annually and 15 million doses of RTS, S Malaria vaccine by 2025, supporting India's Atmanirbharta in vaccine production.



Total Project Cost

₹ 311.30 cr.



TDB's Assistance

₹ 100.00 cr.



M/s Botlab Dynamics Pvt. Ltd., New Delhi

Design & Development of a Reconfigurable Swarming System Consisting of 500-1000 Drones for 3D Choreographed Drone Light Shows

Brief of the Project: M/s Botlab Dynamics commercialised India's first indigenous drone swarm technology, debuting at the 2022 Beating Retreat. This achievement positioned India as the world's fourth nation to accomplish this feat, revolutionising live entertainment with synchronised aerial displays.

The Initiative: With pivotal funding from TDB, the project scaled from prototype to national stage. TDB's backing enabled seamless commercialisation and public showcase.

Outcome: Botlab executed 30+ high-profile drone shows, expanded its team from 40 to 130, and inaugurated a state-of-the-art office in Delhi. This was a testament to India's growing technological self-reliance.



Total Project Cost

₹ 6.66 cr



TDB's Assistance

₹ 2.50 cr



M/s TGP Bioplastics Private Limited, Satara, Maharashtra

Biodegradable Plastic Manufacturing

Brief of the Project: Commercialisation of an indigenous degradable compostable plastic, offering an affordable alternative to single-use plastics.

The Initiative: TDB supports TGP Bioplastics to scale production of a novel Thermoplastic-Starch-based composite that is cost-effective, mouldable, and environmentally safe, aligning with India's goal to phase out single-use plastics.

Outcome: The project will enable annual production of 880 MT compostable material, providing sustainable packaging solutions and reducing plastic pollution.



Total Project Cost

₹ 2.40 cr.



TDB's Assistance

₹ 1.15 cr.



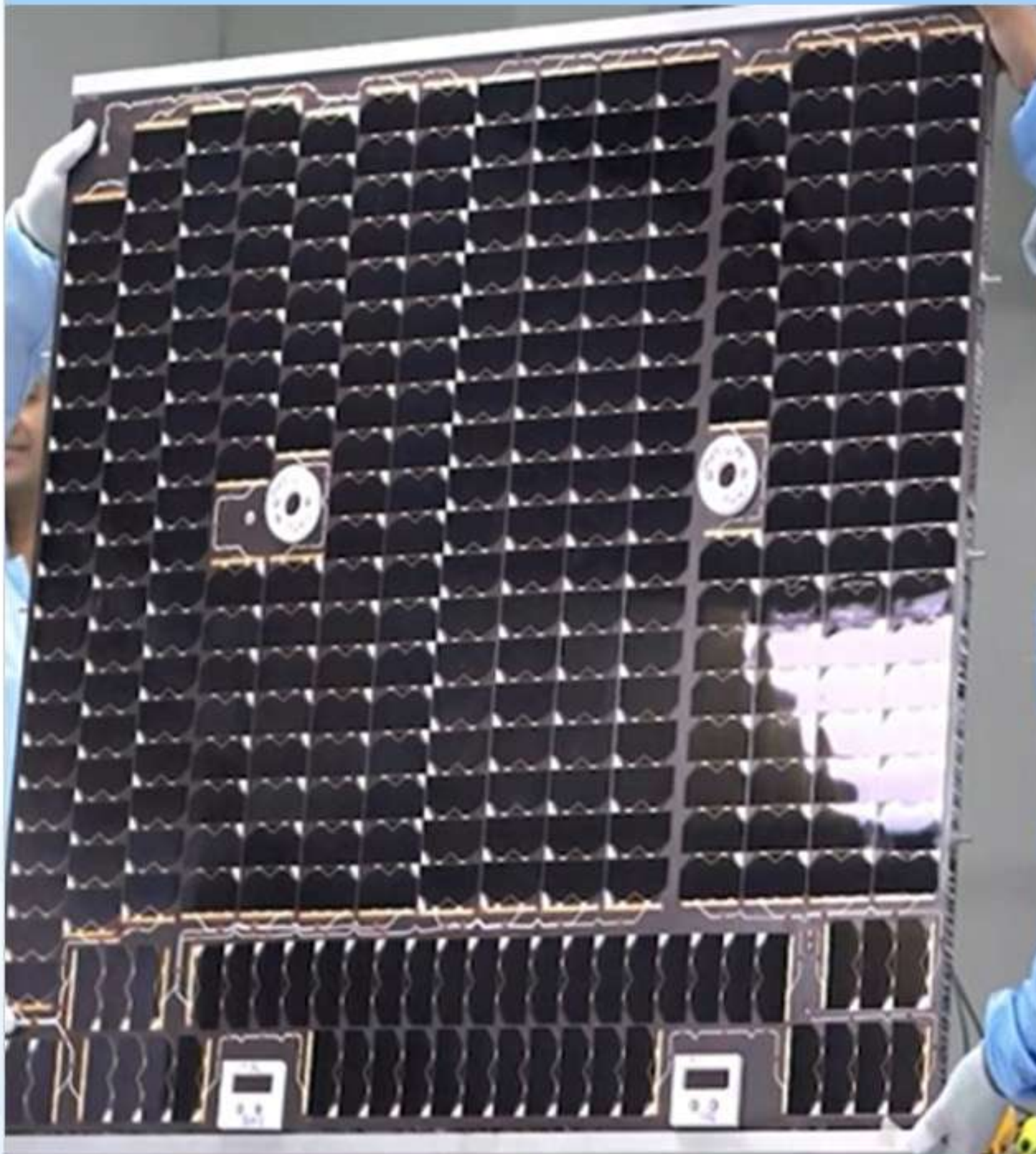
M/s Dhruva Space Private Limited,
Hyderabad

Space Grade Solar Array Fabrication and Test Facility

Brief of the Project: The primary objective of this project is to drive technological innovations in solar panel manufacturing for on-orbit use.

The Initiative: With TDB's backing, Dhruva Space is undertaking an ambitious initiative to develop and commercialise space-grade solar array fabrication and testing processes tailored for spacecraft applications.

Outcome: The project encompasses a series of space-qualified processes, including substrate fabrication, precise cell welding, secure cell bonding, integration of electrical harnesses, and comprehensive testing. Testing will include thermo-vacuum chamber conditions and acoustic testing, with zero-gravity (Zero G) deployment simulations to assess performance in space environments.



Total Project Cost

₹ 29.49 cr.



TDB's Assistance

₹ 14.00 cr.



M/s Manjeera Digital Systems Pvt. Ltd.,
Hyderabad

Development and Production of Receiver Modules essential for NavIC App (NAVigation with Indian Constellation)

Brief of the Project: Manjeera developed receiver modules for India's NavIC navigation system, strengthening self-reliance in semiconductor technologies.

The Initiative: TDB's financial backing accelerated the production of high-performance processors and supported India's semiconductor manufacturing ecosystem.

Outcome: The project enhanced India's capability in core electronics, contributing to strategic and commercial navigation solutions.



Total Project Cost
₹ 14.25 cr.



TDB's Assistance
₹ 4.73 cr.



M/s Orange Koi Private Limited,
Vishakhapatnam

Development & Commercialisation of Metal Injection Molding of Implants, Robotic Surgical Instruments & Devices

Brief of the Project: Orange Koi developed Metal Injection Moulding (MIM) for manufacturing precision surgical instruments and medical device components.

The Initiative: TDB's funding accelerated the commercialisation of indigenous MIM technology, enhancing India's MedTech innovation.

Outcome: The project aimed to produce affordable, high-quality medical device components reducing dependency on imports and boosting India's MedTech export potential.



Total Project Cost
₹ 8.58 cr.



TDB's Assistance
₹ 1.55 cr.



M/s Astrome Technologies Private Limited,
Bengaluru

Productisation and Commercialisation of GigaMesh Solution for delivery of 4G/5G Telecom and Internet services for Defence and Rural Sectors

Brief of the Project: GigaMesh is the world's first auto-aligned, multi-point, E-band radio, designed to deliver cost-effective, high-speed internet with minimal capital and operational expenditure by substituting expensive fiber cables in difficult-to-deploy areas with wireless mm-wave technology.

The Initiative: Addressing the need for high-capacity, low-latency solutions, Astrome's mmWave technology opens new possibilities across sectors and is vital for deploying high-bandwidth broadband networks for both defence and civilian use. Astrome is the first and only provider of an indigenously developed mmWave E-band radio solution.

Outcome: 'GigaMesh' will reduce capital expenditure by up to six times and enable 5G readiness, enhancing rural and defence connectivity while supporting India's digital economy.



Total Project Cost

₹ 19.79 cr.



TDB's Assistance

₹ 2.97 cr.



M/s Fountainhead Agro Farms Private Limited, Navi Mumbai

Advanced, Intensive, All male Tilapia Aquaculture project with Israeli Technology'

Brief of the Project: The project is aligned with 'Pradhan Mantri Matsya Sampada Yojana (PMMSY)' to bring 'Blue Revolution' through sustainable and responsible development of fisheries sector.

The Initiative: This is the first project production of Tilapia through intensive aquaculture in India in an organized setup. This project envisages setting up of a complete production line (from breeding to full fish) aiming to produce 500 Tons of Tilapia to be grown from the imported parent broodstock 'Hermon' from Israel, using advanced Israeli closed-loop farming technology.

Outcome: The project will support fisheries production in land locked locations using closed loop farming for arid zone with seasonal water supply to suit Indian conditions and support local economy.



Total Project Cost

₹ 29.78 cr.



TDB's Assistance

₹ 8.42 cr.



M/s Planys Technologies Pvt. Ltd, Chennai

Commercialisation of ROVs

Brief of the Project: Commercialisation of Remote Operated Vehicles (ROVs) for inspection and monitoring of ports, terminals, process industry plants, and civil structures.

The Initiative: TDB supports IIT Madras-incubated start-up, Planys Technologies, in commercialising cutting-edge ROVs for safer, cost-effective, and faster inspections in critical infrastructure sectors.

Outcome: Enhanced inspection and maintenance of critical infrastructure, improving efficiency and safety, while advancing India's Atmanirbharta in innovative tech with global impact.



Total Project Cost

₹ 3.06 cr.



TDB's Assistance

₹ 1.50 cr.



M/s Huwel Lifesciences Private Limited,
Telangana

Validation and Commercialisation of Rapid Real time PCR reagents for storage and transport at room temperature'

Brief of the Project: Development of lyophilised, room temperature stable RT-PCR reagents, eliminating the need for sub-zero storage.

The Initiative: To establish a cGMP facility for manufacturing and commercialising rapid, multiplex RT-PCR kits for infections and cancers.

Outcome: Enhanced access to affordable molecular diagnostics across India, reducing storage and shipping challenges.



Total Project Cost

₹ 40 cr.



TDB's Assistance

₹ 15 cr.



M/s MLIT-18 Technology Private Limited,
Mumbai

Commercialisation of Machine Vision and Robotics System for Automation in Manufacturing Industry'

Brief of the Project: Commercialisation of an AI and robotics-based Machine Vision system for automating quality assurance in manufacturing, railways, and mining industries.

The Initiative: TDB supports this IIT Kanpur-incubated startup to indigenise automation solutions, reducing import dependence and enhancing industrial efficiency.

Outcome: Deployed affordable, indigenous automation to enhance quality control and productivity in manufacturing, railways, defence, and aerospace—advancing the Hon'ble Prime Minister's vision of 'Make AI in India, Make AI Work for India.



Total Project Cost

₹ 5.89 cr.



TDB's Assistance

₹ 4.12 cr.



M/s Techbridgesoft Innovations Pvt. Ltd.,
Gurgaon

Cyber Threat Detection and Automated Response Security System (SIEM)

Brief of the Project: Commercialisation of Cyber Threat Detection and Automated Response Security System to enhance cybersecurity through AI and ML-based analytics for automated threat detection and response.

The Initiative: TDB supports Techbridgesoft Innovations in developing an indigenous SIEM platform to tackle cyber threats, aligning with India's Cyber Security Strategy and national security goals.

Outcome: The platform will enable organisations to prevent cyber-attacks, enhance security operations, and support India's digital transformation.



Total Project Cost

₹ 3.68 cr.



TDB's Assistance

₹ 1.84 cr.



M/s WellRx Technologies Pvt. Ltd, Rewari,
Haryana

Development and Commercialisation of Next Generation Technologies for Oil & Gas wells to boost Hydrocarbon production in India

Brief of the Project: Development and commercialisation of indigenous technologies to enhance oil and gas well productivity and reduce import reliance.

The Initiative: WellRx will commercialise solutions including the GURV Gas Lift System, ADISH SSSV Module, Non-Failing Landing Nipple Profile, and premium thread technology to revive shut wells, extend well life, and cut costs.

Outcome: The project will boost domestic oil output, save foreign exchange, and establish India's first commercial assembly line for critical oilfield tools.



Total Project Cost

₹ 19.81 cr.



TDB's Assistance

₹ 9.43 cr.



M/s Alchemy Recyclers Pvt. Ltd. Bharuch Gujarat

Development of Integrated plant for the recovery of precious metals from E- Waste and Jeweller Waste

Brief of the Project: The project aims to set-up an integrated plant for the recovery of precious metals from e-waste, jewellery waste, and automobile catalyst waste.

The Initiative: This innovative methodology to recover metals like Gold, Silver, Palladium, Platinum, and Rhodium, not only improves the recovery rates of precious metals but also promotes sustainable waste management.

Outcome: TDB's support highlights the potential of technological interventions in waste recovery and the circular economy for efficient, eco-friendly waste collection. The project targets precious metal recovery through a facility with an installed capacity of 750 TPA.



Total Project Cost

₹ 1.90 cr.



TDB's Assistance

₹ 1.14 cr.



M/s Nccarc Robotics Pvt. Ltd., Maharashtra

Commercialisation of Digitally Enabled Advanced Universal ICU Ventilators

Brief of the Project: Commercialisation of a digitally-enabled advanced universal ICU ventilator developed indigenously.

The Initiative: Deployment of smart ventilators with cloud connectivity for real-time remote monitoring and ICU data digitisation.

Outcome: Nccarc's V730i is a next-generation ICU ventilator, an innovative, accessible product designed to meet the need for seamless critical care



Total Project Cost

₹ 7.89 cr.



TDB's Assistance

₹ 3.94 cr.



M/s Bariflo Labs Private Limited, Odisha

Development and Commercialisation of Intelligent Water Body Management System (IWMS)-TAMARA

Brief of the Project: Development and commercialisation of an AI- and IoT-enabled Intelligent Water Body Management System (IWMS) – TAMARA.

The Initiative: A smart aeration, monitoring, and weed control system to improve water quality and sustainability of water bodies.

Outcome: Improved water quality, healthier ecosystems, enhanced aquaculture, and sustainable water resources for community well-being.



Total Project Cost

₹ 1.50 cr.



TDB's Assistance

₹ 0.89 cr.



M/s Aloe E-Cell Pvt. Ltd., Lucknow,
Uttar Pradesh

Commercialisation of Eco-friendly -1.5V AA size Aloe Vera-based batteries

Brief of the Project: Commercialisation of eco-friendly 1.5V AA Aloe Vera-based batteries as a sustainable alternative to conventional batteries.

The Initiative: Development and market entry of non-toxic, biodegradable batteries aligned with 'Mission LiFE'.

Outcome: These IS 8144:2018 batteries are set to offer an eco-friendly alternative to the widely used AA-sized 1.5V battery. The product has received BIS approval and is patented.

INTRODUCING
ALOE E-CELL
WORLD'S FIRST ALOEVERA POWERED BATTERY



1.5X MORE POWER - 100% ECO-FRIENDLY - HEAVY DUTY
GO GREEN FOR YOUR DAILY NEEDS



Total Project Cost

₹ 2.98 cr.



TDB's Assistance

₹ 1.91 cr.



M/s Lekha Wireless Solutions Pvt. Ltd.,
Bangalore

Tactical Advanced SDR for Space, Defence and Aviation Applications

Brief of the Project: Development of Tactical Advanced SDR (Software-Defined Radio) for Space, Defence, and Aviation Applications under the brand name Antares.

The Initiative: Creating versatile, multi-channel SDR units for tactical, Satcom, and high-power applications, aimed at strengthening India's defence communication capabilities.

Outcome: The company plans to launch the following products under the Antares brand: Handheld SDR, Multi-Channel SDR, Satcom SDR, and High-Power Add-on. This initiative aims to provide a strategic edge to Indian defence communications.



Outdoor High Power



Indoor/Outdoor



Indoor Low Power



Total Project Cost
₹ 17.92 cr.



TDB's Assistance
₹ 4.17 cr.



M/s Remine India Private Limited, Sitarganj, Uttarakhand

Setting up a commercial plant for recycling of Li Battery and E-Waste using Indigenous Technology'

Brief of the Project: The funded project entails the establishment of a commercial plant for the recycling of Li-ion batteries and e-waste.

The Initiative: The disposal of Li-ion batteries (LIBs) through landfilling and incineration poses environmental and safety concerns, highlighting the need for recycling initiatives. There is immense potential for retrieval of metals from spent LIBs.

Outcome: Remine India is building a strategic capability for the nation by localising the recovery of critical raw materials, reducing dependence on imports and promoting circular battery supply chain.



Total Project Cost

₹ 15.00 cr.



TDB's Assistance

₹ 7.50 cr.



M/s Sahajanand Medical Technologies Ltd,
Surat, Gujarat

Product Enhancement & commercialisation of TAVI (Transcatheter Aortic Valve Implantation)

Brief of the Project: Aortic stenosis is the narrowing of the valve between the heart and the aorta, forcing the heart to work harder to pump blood and potentially leading to heart failure. TAVI/TAVR is a minimally invasive procedure that repairs the valve without removing the damaged one, instead placing a replacement valve into its position.

The Initiative: As part of this project, the company aims to enhance the existing TAVI at their DSIR-approved R&D centre in Gujarat, India. The project will support import substitution and setup a dedicated end-to-end manufacturing facility in Hyderabad.

Outcome: As part of this project, the company will set up a manufacturing facility for the full backward integration of TAVI.



Total Project Cost
₹ 90.27 cr.



TDB's Assistance
₹ 45.13 cr.



M/s Midwest Advanced Materials Private Limited, Hyderabad

Commercial Indigenous Production of Neodymium Materials & Rare Earth Permanent Magnets for E-Mobility

Brief of the Project: The strategic project focuses on advancing the commercial manufacturing of Neodymium materials and Rare Earth Permanent Magnets, integral components for e-mobility applications.

The Initiative: This initiative not only strengthens the rare earth supply chain under the vision of Atmanirbhar Bharat but also advances India's position in green technologies.

Outcome: Midwest Advanced Materials Pvt. Ltd. is setting up a fully integrated production line for rare earth metals and alloy block manufacturing. The initial target is an annual production of 500 tonnes of magnets from 150–170 tonnes of oxide, with plans to scale up to 5,000 tonnes per annum by 2030.



Total Project Cost

₹ 250.86 cr.



TDB's Assistance

₹ 125.00 cr.



M/s Agnikul Cosmos Pvt. Ltd, Chennai

Development and Commercialisation of Modular Configurable Launch Vehicle for 100 Kg Payload

Brief of the Project: Development of Agnibaan, a customisable two-stage launch vehicle capable of delivering payloads up to 300 kg to orbits at 700 km altitude, aimed at making satellite launches more accessible and affordable

The Initiative: The project focuses on creating a scalable and flexible launch vehicle, incorporating India's first single-piece 3D-printed rocket engine, mobile launch platforms, and reducing lead times for satellite launches to just two weeks.

Outcome: As a part of the present project, the company will be setting up a manufacturing facility complete with Q&A testing, rocket launch assembly etc.



Total Project Cost

₹ 263.15 cr.



TDB's Assistance

₹ 18.00 cr.



M/s Electromotion E-Vidyut Vehicles Pvt. Ltd,
Raipur, Chhattisgarh

RetroKit™: Electric Retrofitment Kits for Combustion Engine Vehicles

Brief of the Project: The company specializes in innovative automotive technologies, focusing on electric vehicle advancements. Its flagship product, RetroKit™, is a cutting-edge retrofitment solution designed to convert Internal Combustion Engine (ICE) autorickshaws to electric. The system has successfully passed rigorous testing by the Automotive Research Association of India (ARAI).

The Initiative: The RetroKit™ offers transformative benefits for the autorickshaw segment, designed for any three-wheeler over five years old.

Outcome: This project offers a reliable pathway to electrify existing ICE auto-rickshaws.



Total Project Cost

₹ 3.40 cr.



TDB's Assistance

₹ 2.38 cr.



M/s APChem Pvt. Ltd, Navi Mumbai

Production and Commercialisation of Purified Pyrolysis Oil to Enable Downstream Production of Circular Plastics & Sustainable Chemicals

Brief of the Project: APChem's patented PUREMAX™ technology offers an innovative and cost-effective method for purifying pyrolysis oil, making it suitable for producing PUROIL™, a feedstock validated by leading global petrochemical and FMCG companies for food-grade circular plastic

The Initiative: APChem's PUROIL™ (Refinery Quality Pyrolysis Oil for Advanced Recycling of Single-Use-Plastics) converts unrecyclable mixed single-use-plastic waste into high-quality refinery feedstock. The patented PUREMAX™ purification technology achieves 99.7% impurity removal efficiency, creating refinery-grade pyrolysis oil from contaminated plastic waste

Outcome: This project is poised to accelerate plastic circularity by processing 1.2 to 6 kilotonnes of waste per year. Additionally, it is expected to generate approximately 100 jobs while significantly curbing plastic pollution and lowering carbon emissions associated with incineration and landfilling.



Total Project Cost

₹ 9.00 cr.



TDB's Assistance

₹ 4.50 cr.



M/s Dvipa Defence India Pvt. Ltd, Telangana
(erstwhile M/s dvipa Armour Pvt. Ltd.)

Development & Commercialisation of 7.62 mm x 51 mm Assault Rifles

Brief of the Project: The primary aim of this project is to produce high-performance, indigenous assault rifles that meet the Indian Army's General Staff Qualitative Requirements (GSQR). Jointly developed by the Armament Research & Development Establishment (ARDE), Pune, and M/s Dvipa, the UGRAM rifle will be commercially manufactured in India for the first time

The Initiative: The Technology Development Board (TDB) has taken a crucial step towards strengthening India's small arms manufacturing capability by providing financial assistance to M/s Dvipa Defence India Pvt. Ltd., Hyderabad

Outcome: As a part of the present project, the company will establish a facility with quality testing, firing range, and core infrastructure.



Total Project Cost

₹ 36.02 cr.



TDB's Assistance

₹ 18.00 cr.

TECHNOLOGY DEVELOPMENT BOARD

The Government of India constituted the Technology Development Board (TDB) on September 01, 1996 as per the provisions of the Technology Development Board Act, 1995 with an aim to promote development and commercialization of indigenous technology and adaptation of imported technology for wider domestic applications.

TDB'S MANDATE



Provide financial assistance to industrial concerns and other agencies attempting commercial application of indigenous technology or adapting imported technology for wider domestic applications.



Provide financial assistance to such research and development institutions engaged in developing indigenous technology or adaptation of imported technology for commercial application, as may be recognized by the Central Government.



Perform such other functions as may be entrusted to it by the Central Government

WHO CAN APPLY

Any company incorporated
under the Companies Act of
1956 / 2013

Companies intending to
commercialise technology

FUNDING OPTIONS FOR INNOVATORS



LOAN

- 5% interest rate
- Soft loans, paid in phases



EQUITY

- Up to 25% of project cost
- Partnership approach



GRANTS

- Non-commercial, special cases
- No repayment required

NATIONWIDE IMPACT

Transforming Sectors, Touching Lives

For 29 years, TDB has driven innovation across India with strategic financial support. The following data highlights sector-wise, state-wise, and international collaborations from F.Y. 1996-97 to 2024-25. TDB has empowered industries in 24 states and UTs.

TRANSFORMING SECTORS, TOUCHING LIVES

Number of Agreements: 431

Healthcare & Medical



Projects Supported: 112
Project Value (₹ Cr): 2560.24
TDB Support (₹ Cr): 787.41

Engineering



Projects Supported: 79
Project Value (₹ Cr): 1021.79
TDB Support (₹ Cr): 414.30

Information Technology



Projects Supported: 49
Project Value (₹ Cr): 484.47
TDB Support (₹ Cr): 177.13

Defence & Civil Aviation



Projects Supported: 10
Project Value (₹ Cr): 648.83
TDB Support (₹ Cr): 229.95

Road Transport



Projects Supported: 10
Project Value (₹ Cr): 527.04
TDB Support (₹ Cr): 81.2

Textile



Projects Supported: 1
Project Value (₹ Cr): 689
TDB Support (₹ Cr): 250

Agriculture & Allied



Projects Supported: 29
Project Value (₹ Cr): 252.27
TDB Support (₹ Cr): 80.77

Energy & Waste Utilisation



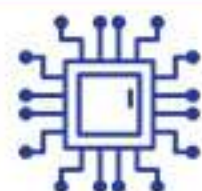
Projects Supported: 22
Project Value (₹ Cr): 207.45
TDB Support (₹ Cr): 94.94

Chemicals



Projects Supported: 28
Project Value (₹ Cr): 257.24
TDB Support (₹ Cr): 94.13

Electronics



Projects Supported: 6
Project Value (₹ Cr): 75.01
TDB Support (₹ Cr): 26.29

Information Technology



Projects Supported: 49
Project Value (₹ Cr): 484.47
TDB Support (₹ Cr): 177.13

Space

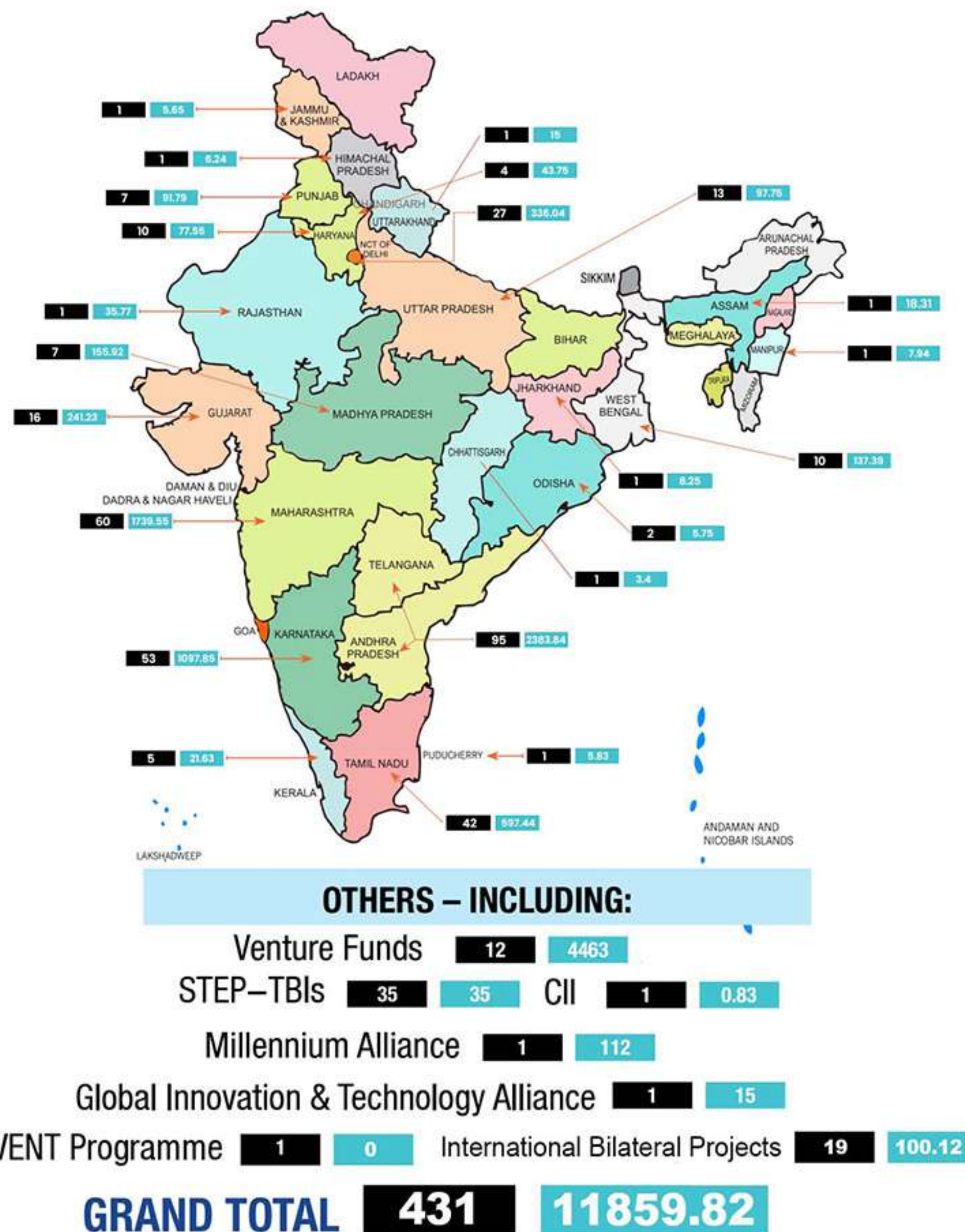


Projects Supported: 2
Project Value (₹ Cr): 292.4
TDB Support (₹ Cr): 32

Other: Projects Supported: 70 | Project Value (₹ Cr): 4725.95 | TDB Support (₹ Cr): 445.54

State - Wise Distribution of Agreements Signed by TDB (1996-2025)

(Based on registered
offices of the company)



INTERNATIONAL PROGRAMME

To enhance international collaboration in industrial research and development, TDB announces bilateral and international calls in association with the Department of Science and Technology. Through this initiative, Indian companies, in partnership with foreign counterparts, can submit proposals focused on cutting-edge technologies beneficial to both nations. Successful projects are eligible for financial assistance from the respective countries. Currently, TDB collaborates with Israel, Singapore, Sweden, Spain, the UK, and Canada.



**Bilateral/
International
Calls**

"Strengthening International Collaboration in Industrial Research and Development:



INDIA-ISRAEL



**India
Singapore**

Collaborative Industrial
Research & Development
Programme

INDIA-SWEDEN

COLLABORATIVE INDUSTRIAL
RESEARCH & DEVELOPMENT
PROGRAMME

INDIA-UK

Collaborative R&D
for Industrial Sustainability

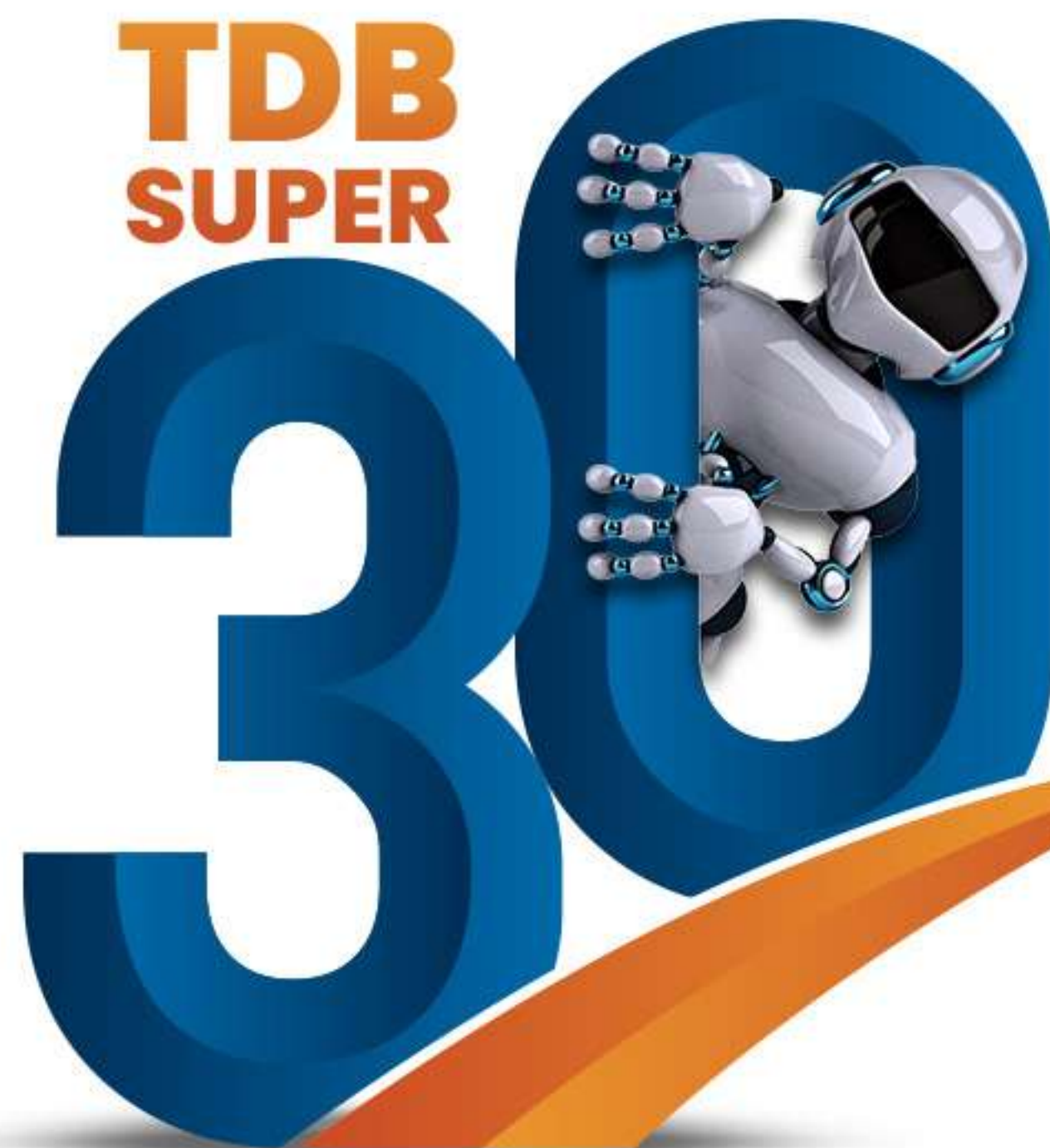
**INDIA
SPAIN**

PROGRAMME OF COOPERATION ON
INDUSTRIAL RESEARCH & DEVELOPMENT
2023



TDB'S MAJOR BENEFICIARIES





Technology Development Board

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