



CSIR@85: Select 85 Technologies Commercialized in the Last 5 Years (2021–2026)



N Kalaiselvi

Secretary, DSIR & DG, CSIR

CSIR Impactful Technologies (Commercialized 2021-2026)



CSIR Lab	Technologies	Reference Image	Commercial Value
CSIR-AMPRI, Bhopal	IndiRam (Make in India Raman Spectrometer) Client: M/s TechnoS Instruments		<ul style="list-style-type: none"> • Est. IM: 20-30 crore • Est: FM: Rs. 4500 Cr • MPP: 25-30% • CAGR: 13%
CSIR-AMPRI, Bhopal	Indigenous SODAR (Sound Detection And Ranging) System Client: M/s Meteoxperts Solutions Pvt. Ltd		<ul style="list-style-type: none"> • Est. IM: ₹50 Crore • Est. FM: ₹25–50 Cr/year • MPP: More than 50 % • CAGR : 12 %
CSIR-AMPRI, Bhopal	Red Mud Based X-ray Shielding Tiles Client: M/s Prism Johnson Ltd		<ul style="list-style-type: none"> • Est. IM: USD 82.31 M • Est. FM: USD 1.9 B • MPP: N/A • CAGR 7.4%
CSIR-AMPRI, Bhopal	Evergreen Hybrid Composites of Parali Client: M/s Permal Wallage Pvt. Ltd., Bhopal and many others		<ul style="list-style-type: none"> • Est. IM: USD 803.2 M • Est. FM: USD 24.6 B • MPP: ₹ 7000 Crore • CAGR: 8.5%

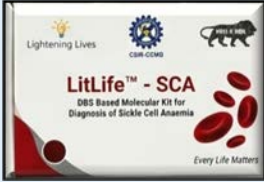



CSIR Impactful Technologies (Commercialized 2021-2026)



CSIR Lab	Technologies	Reference Image	Commercial Value
CSIR-AMPRI, Bhopal	<p>Fly Ash Based Advanced (Cement Free) Geopolymer Concrete for Road Applications</p> <p>Client: M/s Prism Johnson Ltd</p>		<ul style="list-style-type: none"> • Est. IM: USD 215–580 B • Est. FM: \$11.41 B • MPP: N/A • CAGR – 17%
CSIR-CBRI, Roorkee	<p>Partially Insulated Single Leaf Single Swing Metal Composite Fire Door for 120 Minutes</p> <p>Client: M/s S. K. Engineers India Pvt. Ltd.</p>		<ul style="list-style-type: none"> • Est. IM - Rs 110 Cr (India) • Est. FM – USD 50–66 B • MPP: N/A • CAGR – 5.6%
CSIR-CBRI, Roorkee	<p>Hybrid Solar-Assisted Heat Pump System: Solution for Room Space Conditioning</p> <p>Client: M/s Akshaypatra Structural Solutions Pvt. Ltd</p>		<ul style="list-style-type: none"> • Est. IM - Rs 150 Cr • Est. FM – Rs 250 cr • MPP: N/A • CAGR – \$ 5.6
CSIR-CBRI, Roorkee	<p>3D Concrete Printed Buildings</p> <p>Client: Government of Andhra Pradesh</p>		<ul style="list-style-type: none"> • Est. IM – Rs 15000 to 20000 cr • Est. FM – USD10 B • MPP: N/A • CAGR – \$ 5.6





CSIR Impactful Technologies (Commercialized 2021-2026)



CSIR Lab	Technologies	Reference Image	Commercial Value
CSIR-CCMB, Hyderabad	Molecular Detection of Genetic Disorders Using Dried Blood Spot Client: Vanguard Diagnostics Pvt. Ltd.		<ul style="list-style-type: none"> • Est. IM: USD 16.3 M • Est. FM: USD 522.8 M • MPP: N/A • CAGR- 12%
CSIR-CCMB, Hyderabad	DNA-based Method to Differentiate Between Pashmina and other Animal Fibres Client: Endemik Solutions Pvt Ltd		<ul style="list-style-type: none"> • Est. IM: USD 300–540 M • Est. FM: USD 145–415 M • MPP: N/A • CAGR- 7-9 %
CSIR-CCMB, Hyderabad	Improved Samba Mahsuri Rice Variety Client: Maqstik Pvt. Limited, New Delhi		<ul style="list-style-type: none"> • Est. IM: USD 470.5 M • Est. FM: USD 4.4–10.1 B • MPP: N/A • CAGR 7-10%
CSIR-CDRI, Lucknow	A Standardized Fraction of <i>Picrorhiza kurroa</i> for the Treatment of Non Alcoholic Fatty Liver Disease (NAFLD) Client: Themis Medicare Limited		<ul style="list-style-type: none"> • Est. IM: N/A • Est. FM: USD 20–25 B • MPP: N/A • CAGR: 5%



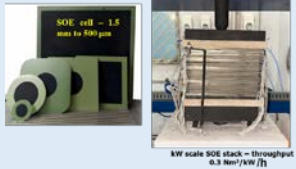

CSIR Impactful Technologies (Commercialized 2021-2026)



CSIR Lab	Technologies	Reference Image	Commercial Value
CSIR-CDRI, Lucknow	Standardized Fraction Enriched with Chebulinic acid for the Management of Benign Prostatic Hyperplasia Client: Himalaya Wellness Company		<ul style="list-style-type: none"> • Est. IM: USD 497.96 USD M • Est. FM: USD 8.26 B • MPP: N/A • CAGR- 8%
CSIR-CECRI, Karaikudi	Fabrication of 18650-type Li-ion Batteries with Li-NMC (532) Cathode Material Clients: TATA Chemicals Ltd., GODI India Pvt. Ltd.		<ul style="list-style-type: none"> • Est. IM: USD 68.0 -137 B • Est. FM: USD 3.6 -6.7 B • MPP: N/A • CAGR - 11.8 – 17.6 %
CSIR-CEERI, Pilani	3.0 MW S-Band Pulsed Tunable Magnetron for Strategic Application		<ul style="list-style-type: none"> • Est. IM: ₹200–400 crore • Est. FM: USD 400–600 M • MPP: N/A • CAGR: 5%
CSIR-CFTRI, Mysuru	Multi-Millet Bun & Protein Plus Slice Client: McDonald's		<ul style="list-style-type: none"> • Est. IM: Rs. 40 crores • Est. IM: Rs. 200 crores • MPP: 35% • CAGR- 10-12%





CSIR Impactful Technologies (Commercialized 2021-2026)



CSIR Lab	Technologies	Reference Image	Commercial Value
CSIR-CFTRI, Mysuru	Sugar Release Control Wheat Atta Client: BigBasket		<ul style="list-style-type: none"> • Est. IM: Rs. 1000 crore • Est. FM: N/A • MPP: 40% • CAGR: 10-15%
CSIR-CGCRI, Kolkata	Manufacturing ZTA Based Ceramic-on-Ceramic Articulating Components for Total Hip Replacement (THR) Client: G. Surgiwar Ltd.		<ul style="list-style-type: none"> • Est. IM: N/A • Est. FM: N/A • MPP: N/A • CAGR: 8%
CSIR-CGCRI, Kolkata	Development of Solid Oxide Electrolyser Cell Technology Client: Carborundum Universal		<ul style="list-style-type: none"> • Est. IM: \$93.8M • Est. FM: \$671.03M • MPP: N/a]A • CAGR:77.48%
CSIR-CGCRI, Kolkata	Light weight Glass Foam bricks for insulation and construction application Client: Sunbright Foam Industries, Morbi		<ul style="list-style-type: none"> • Est. IM: N/A • Est. FM: N/A • MPP: N/A • CAGR: N/A

CSIR Impactful Technologies (Commercialized 2021-2026)



CSIR Lab	Technologies	Reference Image	Commercial Value
CSIR-CIMAP, Lucknow	NaariPlus+ : Herbal Medicated Biodegradable Sanitary Napkin Tech. Client: M/s Digha Bio-Science Private Limited, and many more		<ul style="list-style-type: none"> • Est. IM: Rs. 3100 Cr. • Est. FM: USD 3.8 Billion • MPP: 2-3 % • CAGR: 14-16%
CSIR-CIMAP, Lucknow	Psoria-CIM : Non-Steroidal Lavender Oil-Based Herbal Cream for Psoriasis Management Client: M/s Dew Drops Wellness Pvt. Ltd		<ul style="list-style-type: none"> • Est. IM: Rs.6000 Cr. • Est. FM: \$ 29-30 B • MPP: 1-2% • CAGR: 8-9%
CSIR-CIMFR, Dhanbad	1.5 TPD Pressurized Fluidized Bed Gasification (PFBG) Technology		<ul style="list-style-type: none"> • Est. IM: ₹2.5 to ₹3 lakh cr • Est. FM: \$580.61 B • MPP: NA • CAGR: 4.64%
CSIR-CIMFR, Dhanbad	Non-Recovery Type Coke Oven, Drag Type Coke Oven with Stamp Charging & Coke Quenching & Improved Soft Coke Making Client: M/s KIOCL		<ul style="list-style-type: none"> • Est. IM: Rs. 75.00 Cr • Est. FM: Rs. 75.00 Cr • MPP: 30% • CAGR: 3.66%

CSIR Impactful Technologies (Commercialized 2021-2026)



CSIR Lab	Technologies	Reference Image	Commercial Value
CSIR-CLRI, Chennai	Gloves For Extreme Cold Climate Condition Client: Naser Bali Gloves Pvt Ltd		<ul style="list-style-type: none"> • IM: \$60 Mn by 2030 • FM: \$1.5 Bn by 2030 • MPP: <10% • CAGR: 6-8%
CSIR-CLRI, Chennai	Process of Making Leather For Musical Instrument Client: M/s. Life Wins Leather Work		<ul style="list-style-type: none"> • IM: \$400 Mn by 2031 • FM: \$30 Bn by 2031 • MPP: <10% • CAGR: 9-11%
CSIR-CMERI, Durgapur	E-Tractor CSIR-PRIMA ET-11 Client: M/s K.N. Biosciences (India) Pvt Ltd		<ul style="list-style-type: none"> • Est. IM: \$1.2–2.0 Bn by 2035 • Est. FM: \$2–12 Bn by 2035 • MPP: 0.001% • CAGR: 28%
CSIR-CMERI, Durgapur	Electric Tiller Client: M/s K.N. Biosciences (India) Pvt Ltd		<ul style="list-style-type: none"> • Est. IM: \$ 250–400 Bn by 2035 • Est. FM: \$ 2.5–3.7 Bn by 2035 • MPP: < 1% • CAGR: 6-9.5%

CSIR Impactful Technologies (Commercialized 2021-2026)



CSIR Lab	Technologies	Reference Image	Commercial Value
CSIR-CMERI, Durgapur	<p>Integrated Solid Waste Mangement Disposal System (Imswds)</p> <p>Client: M/s SIYA Instruments</p>		<ul style="list-style-type: none"> • Est. IM: USD 21.9 Bn by 2034 • Est. FM: USD 286 Bn by 2033 • MPP: <60% • CAGR: 12.5 %
CSIR-CMERI, Durgapur	<p>Vehicle Mounted Mechanized Drain Cleaning System</p> <p>Client: M/s Maniar & Co</p>		<ul style="list-style-type: none"> • Est. IM: USD 49 Mn by 2035 • Est. FM: USD 2.7 Bn by 2032 • MPP: 10-12% • CAGR: 6.8 %
CSIR-CMERI, Durgapur	<p>Mob Control Vehicle</p> <p>Client: M/s Vijay Fire Vehicles and Pumps Ltd</p>		<ul style="list-style-type: none"> • Est. IM: \$ 380–480 Mn by 2035 • Est. FM: \$ 4.5 Bn by 2031 • MPP: 20-30% • CAGR: 5-7.1%
CSIR-CRRI, Delhi	<p>ECOFIX Technology for Instant Pothole Repair</p> <p>Client: M/s Ramuka Global Services LLP</p>		<ul style="list-style-type: none"> • Est. IM: ₹1,000–3,000 crore/year • Est. FM: US\$10–11 billion/year • MPP: 10–20% • CAGR: 15-20%





CSIR Impactful Technologies (Commercialized 2021-2026)



CSIR Lab	Technologies	Reference Image	Commercial Value
CSIR-CRRI, Delhi	<p>REJUPAVE Client: M/s Verma Industries, New Delhi</p>		<ul style="list-style-type: none"> • Est. IM: ₹2000–5000 cr/year • Est. FM: \$ 8–10 billion/year • MPP: 10–20% • CAGR: 10-12 %
CSIR-CRRI, Delhi	<p>MSS+: Modified Mix Seal Surfacing Client: M/s JMVD Industries Private Limited, Uttar Pradesh</p>		<ul style="list-style-type: none"> • Est. IM: ₹1,500–2,000 cr/year • Est. FM: US\$6–8 billion/year • MPP: 10–15% • CAGR: 12-18 %
CSIR-CRRI, Delhi	<p>Bio binders from Agricultural Waste for Utilization in Bituminous Road Construction Client: Catalyst Petrochem LLP</p>		<ul style="list-style-type: none"> • Est. IM: ₹5,000–15,000 crore • Est. FM: US\$10–30 billion • MPP: 10–25% • CAGR: 18-25%
CSIR-CRRI, Delhi	<p>Steel-Slag Roads Clients: ArcelorMittal Nippon Steel India (AMNS), Tata Steel, JSW Steel, Jindal Steel and Power</p>		<ul style="list-style-type: none"> • Est. IM: ₹8000–15000 cr/year • Est. FM: \$15–40 B/year • MPP: 10–20% • CAGR: 15-20%

CSIR Impactful Technologies (Commercialized 2021-2026)



CSIR Lab	Technologies	Reference Image	Commercial Value
CSIR-CSIO, Chandigarh	Dialysis Machine for CKD Patients Client: M/s Titan Corporation Private Limited, Tamil Nadu		<ul style="list-style-type: none"> • Est. IM: 1200 Cr/Yr • Est. FM: 1.7 lakh Cr/Yr • MPP: 7% (~ 84 Cr/Yr) • CAGR: 9 %
CSIR-CSIO, Chandigarh	Head Up Display (HUD) for LCA-Tejas and Hindustan Jet Trainer Aircrafts Client: Bharat Electronics Ltd		<ul style="list-style-type: none"> • Est. IM: 500 Cr/Yr • Est. FM: 5300 Cr/Yr • MPP: 20 % • CAGR: 12-13 %
CSIR-CSIO, Chandigarh	Aircraft Lights for LCA Mk1, LCA Mk2 and AMCA Client: Bharat Electronics Ltd		<ul style="list-style-type: none"> • Est. IM: 250 Cr/Yr • Est. FM: 5000 Cr/Yr • MPP: 10 % • CAGR: 5-7.1%
CSIR-CSMCRI, Bhavnagar	Process for preparation of Liquid Seaweed Plant Bio-simulant (LSPB) from <i>Kappaphycus alvarezii</i> & Sargassum Client: Jagrit Chemicals & Fertilizers		<ul style="list-style-type: none"> • Est. IM: \$ 355.53 Mn • Est. FM: \$ 4.54 Bn • MPP: 25-30% • CAGR: 9.64%

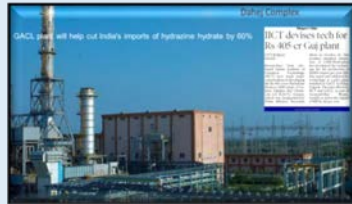
CSIR Impactful Technologies (Commercialized 2021-2026)



CSIR Lab	Technologies	Reference Image	Commercial Value
CSIR-CSMCRI, Bhavnagar	Recovery of Industrial-Grade Sodium Chloride and Sodium Sulphate from Waste Effluent of Tannery and Textile Dyeing Industries Client: M/s. RANITEC	 <p>Indian patent No. 232395</p>	<ul style="list-style-type: none"> • Est. IM: \$152.40 Bn • Est. FM: \$1.6 Trn • MPP: 30-40% • CAGR: 7 %
CSIR-CSMCRI, Bhavnagar	Process Know-how for End-of-life Reverse Osmosis Membrane Rejuvenation Client: Membrane Engg. Pvt Ltd.		<ul style="list-style-type: none"> • Est. IM: \$263.4 Mn • Est. FM: \$8.91 Bn • MPP: 20-25% • CAGR: 12-13 %
CSIR-CSMCRI, Bhavnagar	100% Water Soluble Sulphate of Potash (WS SOP) from K-rich Distillery Incinerator Ash Client: DCM Shriram Bio Enchem Ltd		<ul style="list-style-type: none"> • Est. IM: \$2.67 Bn • Est. FM: \$65.56 Bn • MPP: 15-20% • CAGR: 5%
CSIR-IGIB, New Delhi	CRISPR-Based Gene Therapy for Sickle Cell Disease Client: Serum Institute of India Pvt. Ltd.	 <p> Industry Partner: Serum Institute of India Pvt. Ltd. (SIPL) Licensing: Formal Technology Transfer & Collaboration Agreement (CSIR-IGIB to SIPL) Revenue: 5 Cr (expected 80 Cr (milestone based+5% Royalty)) </p>	<ul style="list-style-type: none"> • Est. IM: ₹5000 K Cr • Est. FM: ₹30000 K Cr • MPP: 30% • CAGR: 15%



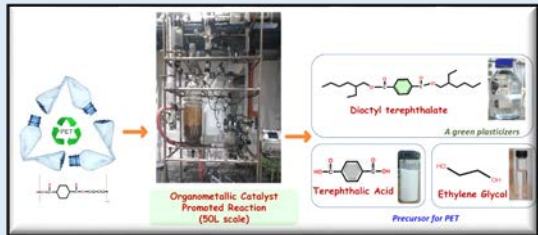

CSIR Impactful Technologies (Commercialized 2021-2026)



CSIR Lab	Technologies	Reference Image	Commercial Value
CSIR-IHBT, Palampur	Agro- and Processing Technology of Stevia Client: M/s RJ Saints, Una (H.P)		<ul style="list-style-type: none"> • Est. IM: USD 36 million • Est. FM: USD 1.03 billion • MPP: 0.097 % • CAGR: 7 %
CSIR-IHBT, Palampur	Agrotechnology of Monk Fruit: A New Zero-calorie Natural Sweetener Client: M/s. Rami Hortitech Private Limited. UP		<ul style="list-style-type: none"> • Est. IM: \$ 18-25 million • Est. FM:\$416 -479 million • CAGR: 7.81%
CSIR-IICT, Hyderabad	Hydrazine Hydrate Production Client: Gujarat Alkalies and Chemicals Limited (GACL)		<ul style="list-style-type: none"> • Est. IM: • Est. FM: • MPP: • CAGR: 4-6.5%
CSIR-IICT, Hyderabad	Cost-effective and scalable process for the synthesis of TLR 7/8 agonist molecule (IMDG), used as an adjuvant in COVAXIN® (COVID-19 vaccine) Client: Bharat Biotech International Ltd		<ul style="list-style-type: none"> • Est. IM: • Est. FM: • MPP: • CAGR: 9.6%

CSIR Impactful Technologies (Commercialized 2021-2026)



CSIR Lab	Technologies	Reference Image	Commercial Value
CSIR-IICT, Hyderabad	Process for ortho-chloro Benzonitrile Client: Shiva Pharmachem Ltd		<ul style="list-style-type: none"> • Est. IM: NA • Est. FM: \$ 312.4 M(2025) • MPP: NA • CAGR: 5.9%
CSIR-IICT, Hyderabad	Anaerobic Gas Lift Reactor(AGR) Technology Client: Ahuja Engineering Services Pvt. Ltd		<ul style="list-style-type: none"> • Est. IM: \$ 1.8 B (2025) • Est. FM: \$ 19 B (2025) • MPP: Current – 2 % • CAGR: 10.2%
CSIR-IICT, Hyderabad	Terephthalate Esters from PET Waste Client: CDG Petchem Limited		<ul style="list-style-type: none"> • Est. IM: \$ 1.6 B (2025) • Est. FM: \$ 3.5 B (2025) • MPP: 2025 – 3.4% • CAGR: 8-16%
CSIR-IICT, Hyderabad	Nanofibre Membranes That Remove 99% Toxic Dye Contamination From Textile Waste Client: No client yet		<ul style="list-style-type: none"> • IM: ₹10000-20000 Crore • FM: USD 30 Billion • MPP: 3% • CAGR: 10%




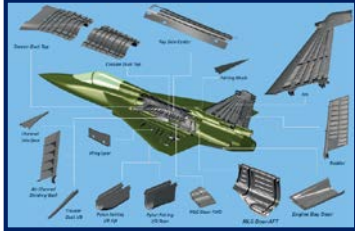
CSIR Impactful Technologies (Commercialized 2021-2026)



CSIR Lab	Technologies	Reference Image	Commercial Value
CSIR-IIP, Dehradun	Sweetening Catalyst for LPG: Thoxcat ES Clients: BPCL, IOCL, HPCL, MRPL, Aramco		<ul style="list-style-type: none"> • Est. IM: Rs 5 Cr • Est. FM: Rs 250 Cr • MPP: 100% of IM • CAGR: ~6%
CSIR-IIP, Dehradun	Energy Efficient Domestic Burner for Piped Natural Gas (PNG) and it's Implementation for Clean Cooking Transition Client: Real-flame Pearl Print Pack Pvt. Ltd		<ul style="list-style-type: none"> • Est. IM: ~Rs 125 Cr/Yr • Est. FM: ~Rs 17000 Cr/Yr • MPP: ~20% of IM • CAGR: ~8%
CSIR-IIP, Dehradun	AVSAR: Advanced Vacuum Swing Adsorption Technology for Bio-gas Upgradation to Pipeline Quality Bio-Methane Client: Mailhem Environment Pvt. Ltd., Pune		<ul style="list-style-type: none"> • Est. IM: ~Rs 3500 Cr/Yr • Est. FM: ~ Rs 1500000 Cr/Yr • MPP:10% of Indian Market • CAGR:~12%
CSIR-IMMT, Bhubaneswar	Potash-Enriched Biochar From Selected Waste Biomass Client: M/S Indian Plants Feeds, Cuttack and others		<ul style="list-style-type: none"> • Est. IM: ₹ 1550-1600 Cr • Est. FM: ₹ 5100 -5300 Cr • MPP: 5-6% • CAGR: 16.8% to 19.5%





CSIR Impactful Technologies (Commercialized 2021-2026)



CSIR Lab	Technologies	Reference Image	Commercial Value
CSIR-NAL, Bengaluru	Jaldost-MkII Airboat Client: NA		<ul style="list-style-type: none"> • Est. IM: USD 215 Million • Est. FM: USD 550 Million • MPP: 60% • CAGR: 10.2% - 11.5%
CSIR-NAL, Bengaluru	HANSA-NG3 Client: Pioneer Clean Amps		<ul style="list-style-type: none"> • Est. IM: USD 16.53 Billion • Est. FM: USD 11.00 Billion • MPP: 55%-63% • CAGR: 11.86%
CSIR-NAL, Bengaluru	NJ100 Turbo Engine Client: Under discussion		<ul style="list-style-type: none"> • Est. IM: USD 1.5 Billion • Est. FM: USD 11.92 Billion • MPP: 85% • CAGR: 12.5%
CSIR-NAL, Bengaluru	Fin & Rudder, Engine Bay Door and Composite Parts to LCA Tejas Mk-1A Client: M/s. Hindustan Aeronautics Limited, Bengaluru		<ul style="list-style-type: none"> • Est. IM: USD 780 Million • Est. FM: USD 36.15 Billion • MPP: 95% - 100% • CAGR: 11.4% - 13.1%





CSIR Impactful Technologies (Commercialized 2021-2026)



CSIR Lab	Technologies	Reference Image	Commercial Value
CSIR-NAL, Bengaluru	DRISHTI Transmissometer Client: Tata Power Company Limited, Bengaluru		<ul style="list-style-type: none"> • Est. IM: USD 23.8 M • Est. FM: USD 36.15 B • MPP: 85% • CAGR: 12.5% - 13.0%
CSIR-NBRI, Lucknow	Genetically Modified Cotton Tolerant for Pink Bollworm Client: M/s Ankur Seeds Pvt. Ltd., Nagpur		<ul style="list-style-type: none"> • Est. IM: \$ 850.0 M (2025) • Est. FM: \$ 1.5 B (2025) • MPP: 100% • CAGR: 5% - 6%
CSIR-NBRI, Lucknow	Agro Technologies for Lotus (Namoh 108) Client: M/s Precision Agritech Pvt. Ltd. and others		<ul style="list-style-type: none"> • Est. IM: \$30.0 M • Est. FM: \$ 90.0 M • MPP: 75% for Namoh • CAGR: 9% - 10%
CSIR-NCL, Pune	Fuel Cell Catamaran Client: M/s. KPIT Technologies Ltd		<ul style="list-style-type: none"> • Est. IM: Not available • Est. FM: USD 2.1 billion • MPP: 7-8% • CAGR: 11.5% (global)





CSIR Impactful Technologies (Commercialized 2021-2026)



CSIR Lab	Technologies	Reference Image	Commercial Value
CSIR-NCL, Pune	Continuous Manufacturing Technology – Paracetamol Client: M/s. Satyadeeptha pharmaceutical Pvt Ltd, Karnataka		<ul style="list-style-type: none"> • Est. IM: INR 1250 Cr • Est. FM: USD 1.5 billion • MPP: 5% • CAGR: 5%
CSIR-NCL, Pune	Continuous Manufacturing Technology - Azelaic Acid Client: Alivus Life Science Ltd.		<ul style="list-style-type: none"> • Est. IM: INR 375 Cr • Est. FM: USD 250 million • MPP: 10% • CAGR: 7-8%
CSIR-NCL, Pune	Continuous Flow Reactors – Pinched Tube Reactor Client: Amar Equipments Pvt. Ltd.		<ul style="list-style-type: none"> • Est. IM: USD 220 million • Est. FM: USD 2.0 billion • MPP: 50% • CAGR: 13.6%
CSIR-NCL, Pune	Zeolite Rejuvenation, On Board Oxygen Generation System Client:		<ul style="list-style-type: none"> • Strategic application




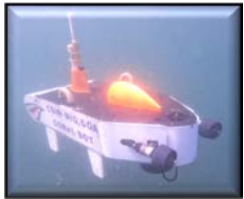
CSIR Impactful Technologies (Commercialized 2021-2026)



CSIR Lab	Technologies	Reference Image	Commercial Value
CSIR-CRRI	<p>PatchFILL: The Pothole Repair Machine</p> <p>Client(s): M/s Petrochem Specialities, Uttar Pradesh</p>		<ul style="list-style-type: none"> • Est. IM: ₹1000–3000 cr • Est. FM: US\$2–5 B • MPP: 10–20% • CAGR: 12-18 %
CSIR-NEERI, Nagpur	<p>Faecal Sludge Management in Chandarpur Municipality</p> <p>Client:</p>		<ul style="list-style-type: none"> • Est. IM: 12.00 Crore • Est. FM: USD 6.20 Billion • MPP: 5-8% • CAGR: 8.4% to 9.4%
CSIR-NEERI, Nagpur	<p>Eco-Rejuvenation Technology (ERT) to transform fly-ash</p> <p>Client:</p>		<ul style="list-style-type: none"> • Est. IM: 100 to 150 Crore • Est. FM: \$ 15-20 Million • MPP: 20-30% • CAGR: 8-12%
CSIR-NIIST, Trivandrum	<p>NOWA-NIIST Onsite Wastewater Treatment Technology</p> <p>Client: Sathyam Enviro and many others</p>		<ul style="list-style-type: none"> • Est. IM: \$10.4 B • Est. FM: \$372.39 Billion • MPP: Rs. 200 Crores • CAGR: 7.00 %





CSIR Impactful Technologies (Commercialized 2021-2026)



CSIR Lab	Technologies	Reference Image	Commercial Value
CSIR-NIIST, Trivandrum	Plant-Based Leather Alternatives Client: 5F Cactus Energy LLP		<ul style="list-style-type: none"> • Est. IM: NA • Est. FM: NA • MPP: NA • CAGR: 7.4-10.8%
CSIR-NIIST, Trivandrum	Automated Biomedical Waste Conversion Rig Client: M/s Bio Vastum Solutions Pvt. Ltd.		<ul style="list-style-type: none"> • Est. IM: USD 2.32 B (2024) • Est. FM: USD 39.8 B (2025) • MPP: 30-40% • CAGR: 7-8%
CSIR-NIIST, Trivandrum	Production of high-protein, low glycaemic index (GI) rice kernels enriched with micronutrients Client: Tata Consumer Products Limited		<ul style="list-style-type: none"> • Est. IM: USD 470 M • Est. FM: USD 5.4 B • MPP: 25-40% • CAGR: 5-6%
CSIR-NIO, Goa	Coral Reef monitoring Robot (C-Bot) Client: Krishna Defence and Allied Industries Limited (KDAIL), Mumbai		<ul style="list-style-type: none"> • Est. IM: ₹ 50 Crore (₹ 1Cr./unit) • Est. FM: ₹ 300 Crore • MPP: ~10–12% • CAGR: 7-8 %





CSIR Impactful Technologies (Commercialized 2021-2026)



CSIR Lab	Technologies	Reference Image	Commercial Value
CSIR-NML, Jamshedpur	Electrolytic Manganese Metal (EMM) Production Client: Sarthi Aerospace & Defense, Haryana		<ul style="list-style-type: none"> Est. IM: ₹1000 to ₹1500 Cr Est. FM: \$5.1 - 6.2 Billion MPP: 10-20% CAGR: 5-7%
CSIR-NML, Jamshedpur	Hot Rolled Low Alloy Steel with High Strength, Impact Toughness and Abrasion Resistance Client: Tata Steel Limited		<ul style="list-style-type: none"> Est. IM: ₹6200 to ₹9100 Cr Est. FM: \$16 - 22 B MPP: 10-20% CAGR: 8-9%
CSIR-NML, Jamshedpur	Recycling of different PCBs to recover Gold, Copper and Aluminium Client: Renault-Nissan Technology and Business Center India Pvt. Ltd., Tamil Nadu		<ul style="list-style-type: none"> Est. IM: ₹3,500 - ₹4,600 Cr Est. FM: \$ 800 - 900 M MPP: 20-30% CAGR: 7-9%
CSIR-SERC, Chennai	Textile Reinforced Concrete Client: L&T Construction, Mumbai		<ul style="list-style-type: none"> Est. IM: \$0.15 billion Est. FM: \$1.5 billion MPP: 50% CAGR: 8%

CSIR Impactful Technologies (Commercialized 2021-2026)



CSIR Lab	Technologies	Reference Image	Commercial Value
CSIR-SERC, Chennai	High velocity multi-hit resistant movable protective booth/shack for security personnel Client: M/s Sehgal Doors		<ul style="list-style-type: none"> • Est. IM: \$15 million • Est. FM: \$2.49 billion • MPP: 50% • CAGR: 10.2 to 10.7%
CSIR-SERC, Chennai	Emergency Retrieval System for Power Lines (ERS) Client: M/s Advait Infratech Ltd		<ul style="list-style-type: none"> • Est. IM: INR 800 crore • Est. FM: \$300 million • MPP: 75-80% • CAGR: 20%
CSIR- SERC, Chennai	Laced Steel-Concrete Composite Panels Client: M/s. Modular Prefab Ltd		<ul style="list-style-type: none"> • Est. IM: \$0.48 billion • Est. FM: \$4.2 billion • MPP: 50% • CAGR: 6.9% to 10.7%
CSIR- NPL, Delhi	BHARATIYA NIRDESHAK DRAVYA Client: Testing labs		<ul style="list-style-type: none"> • Est. IM: Rs 1000 Cr/year • Est. FM: \$ 500 Million/year • MPP:>40% • CAGR:8.1%

CSIR Impactful Technologies (Commercialized 2021-2026)



CSIR Lab	Technologies	Reference Image	Commercial Value
CSIR-IIIM, Jammu	<p>IIIM-141: A Saffron-based Phytopharmaceutical Drug For Alzheimer's Disease</p> <p>Client: Pharmanza Herbal Pvt. Ltd.</p>		<ul style="list-style-type: none">• Est. IM: USD 41.3-55 million• Est. FM: USD 4.28-6.1 billion• MPP: 20%• CAGR: 5.1%

Thank You