



Shriram Research Institute

FY 2025-26
Annual Reflection



Unwavering Quality

NABL clearance achieved with onsite assessment; DNV ISO & IAPMO successfully completed.



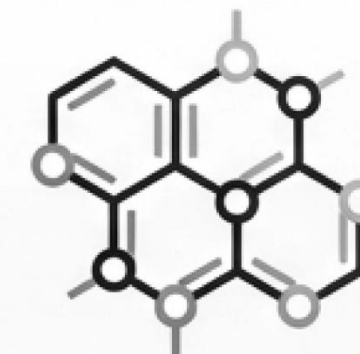
Market Validation

Maintained TASL Gold Rating; Cleared rigorous audits for Boeing and 5 major Pharma/FMCG giants.



Infrastructure Upgrades

Implemented LIMS and installed 12+ advanced analytical instruments with zero operational downtime.



R&D & Innovation

Secured major projects and executed 15+ novel method validations spanning Medical, Agri-chem, and Environmental sectors.



National and Global Quality Compliance



NABL Audit

Successfully completed for both Testing and Calibration fields (Certifications received February and March 2026). Reinforces compliance with national quality standards.



DNV ISO Audit

External quality assessment successfully completed across multiple laboratories and operational sections.



IAPMO Audit

Periodic audit by the International Association of Plumbing and Mechanical Officials successfully completed.



Exceptional Proficiency Testing Enables Remote NABL Clearance

Successfully cleared the NABL audit without onsite assessment, based on strong Proficiency Testing (PT) performance and participation, in the following areas: Building Materials (Cement, Aggregates, Bricks, Stones, Tiles, Wood), Paper & Paper Products, Rubber & Rubber Products, Plastics & Plastic Products, Mechanical Properties of Metals, Chemical Group – Corrosion Testing, Plastics and Resins (excluding rubber chemicals) and Water (Biological)



ASD

18 PT | **13** ILC



MSD

16 PT | **4** ILC



ESD

5 PT | **3** ILC



CD

3 PT | **2** ILC

Elite Industry Validation Across Core Sectors

Aerospace & Defense

Facility testing activities directly witnessed and verified by **Tata Advanced Systems Limited (TASL)** and **Boeing**, strengthening technical credibility.

TASL Gold Rating

Maintained since 2023. Secured for the period April 2025 to December 2025 based on excellent performance in quality, delivery, and service.

Pharma, FMCG & Biosciences

Customer audits successfully completed across Food, Drug, Environment, and Instrumentation Labs for:

Ajanta Pharma

ITC Limited

Biocon Biologics

Zydus Life Sciences Limited

Hikal Limited

Infrastructure Modernization & Capacity Expansion

Digital Transformation: Full implementation of Laboratory Information Management System (LIMS) completed.

Advanced Analytical & Chemical

LC-ICP-MS

ICP-OES

LC-MS/MS

TOC Analyzer

Biological & Environmental

Airborne Particle Counter

Microbial Air Sampler

Refrigerated Centrifuge

PCR & ELISA systems

Flue Gas Analyzer

Thermodynamics & Physical

Bomb Calorimeter

Cyclic Corrosion Chamber



Method Validation Portfolio: Pharma, Cosmetics & Medical

Complex Matrix Analysis (Aloe Vera)	Simultaneous determination of Aloin A, Aloin B, Aloe Emodin and Emodin in Aloe barbadensis miller extract using LC-MS/MS.
Consumer Goods & Cosmetics	Method validations completed for Parabens, Phthalates, Triclosan and Ethanol amines specifically targeting shampoo samples.
Medical & Safety Infrastructure	Successfully included Bacterial Endotoxin Testing for medical-purpose water under the water testing group.
General Chemical Validations	Comprehensive validations completed for Methyl Mercury, VOC and Amines .

Strategic Expansion: Food, Agriculture & Environmental Science



Food & Beverages

Development of plant-based milk extraction from cereals, including microbiological evaluation as per FSSAI guidelines.

Production and optimization of Kefir utilizing non-traditional microbial approaches.



Agriculture & Animal Feed

Major Project

Secured and executed method development and validation for Fosetyl Aluminium.

First-Time Execution

Established and executed endotoxin analysis in animal feed matrices, directly meeting specific customer requirements and expanding service capabilities.



Environmental / Industrial

Major Project

Secured a critical project focused on the Removal of Colour from Ammonium Sulphate Liquor.



SRI Foliar Formulation

- ☼ **Successful Field Validation (Phase-I):** SRI-B formulation demonstrated significant improvements in grape cultivation, including **18–20% yield increase**, enhanced fruit quality, reduced pest and disease incidence, and extended shelf life up to two weeks, supporting both domestic and export markets.
- ☼ **Expansion and Farmer Adoption (Phase-II):** Based on strong Phase-I results, the project expanded to **25 farmers across multiple villages** with an investment of ₹8.50 lakhs, covering grapes and pomegranate, with growing farmer demand for early commercialization.
- ☼ **Multi-Crop Performance and Productivity Gains:** Trials on cucumber, French beans, and chilli showed **enhanced plant growth, early flowering, and up to ~50% yield improvement**, confirming the formulation’s versatility across horticultural crops.
- ☼ **Commercialization and Strategic Partnerships:** SRI-B is positioned as a “**one-bottle multifunctional solution**” (growth + protection + preservation), with plans for **FCO registration and partnerships with DSFMCL** for large-scale commercialization and farmer outreach.



DCM SHRIRAM
FINE CHEMICALS LTD.
Quality • Integrity • Pioneering Spirit

Product Performance



Microbiological Research & Bioremediation Leadership

Medical / Pathogen Research

- Synergistic antimicrobial activity study of plant extracts (Annona muricata, Cassia alata, Tagetes erecta) against Multi-Drug Resistant (MDR) pathogens.
- Evaluated antimicrobial properties of endophytic fungi isolated from Indian borage (Plectranthus amboinicus).

Environmental Bioremediation

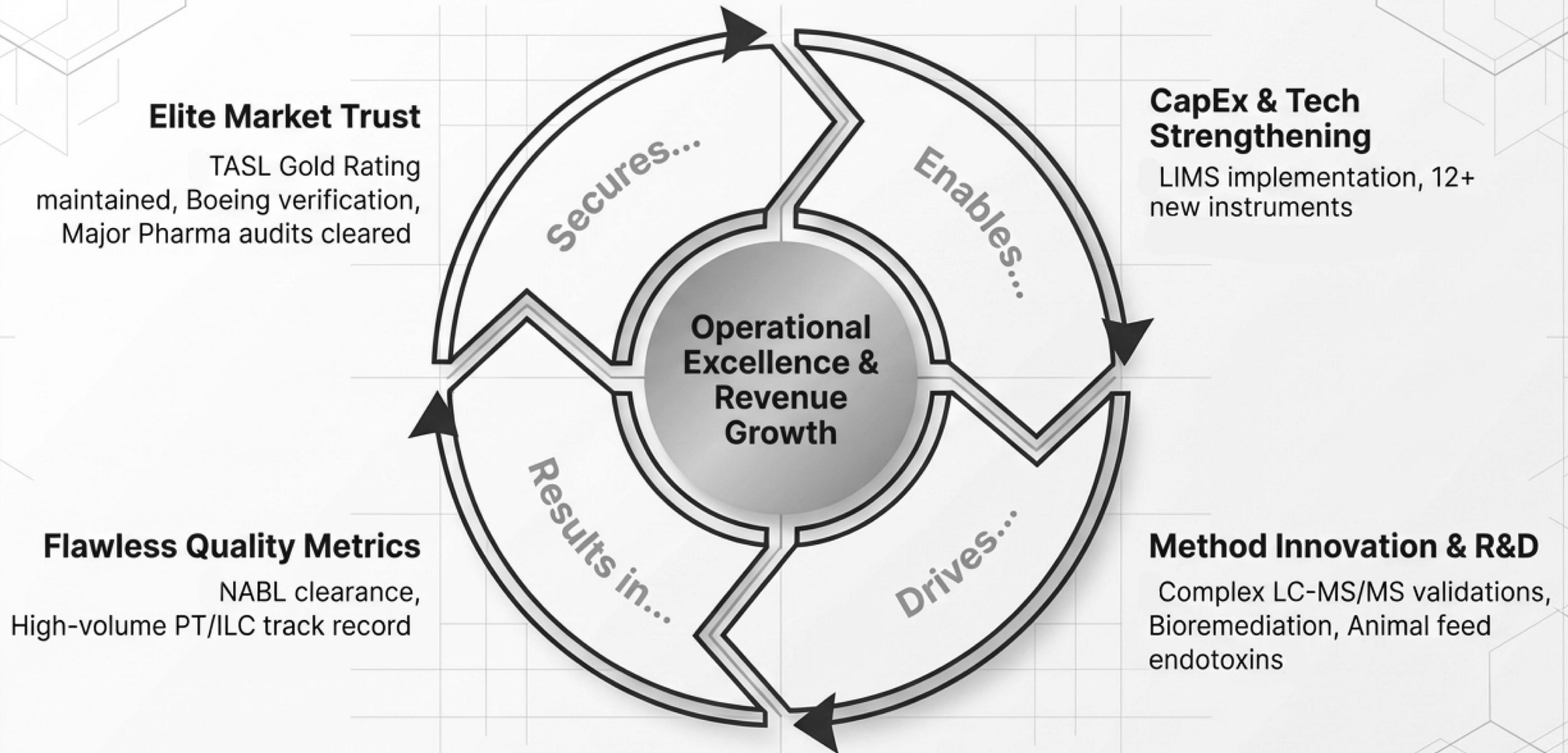
- Isolation and evaluation of petroleum hydrocarbon-degrading bacteria sourced from contaminated soil.
- Targeted isolation of dye-degrading microorganisms for specific environmental applications.

Academic Contribution

Provided advanced training to Ph.D. scholars on Minimum Inhibitory Concentration (MIC) determination and the handling of complex bacterial and fungal cultures.



The SRI Value Creation Cycle



Shriram Research Institute : A Legacy of Technical Excellence and Quality

INDUSTRY RECOGNITION & QUALITY BENCHMARKS



TASL GOLD RATING (CONSECUTIVE)

Received for April 2025 to December 2025 based on quality, delivery, and service, maintaining streak since 2023.



ISO/IEC 17025:2017 ACCREDITED

NABL Accredited for Testing (Cert: TC-6090, Valid: late 2027) and Calibration (Cert: CC-4690, Valid: 2030).



Division	PT	ILC
ASD	18	13
MSD	16	4
ESD	5	3
CD	3	2

ROBUST PARTICIPATION IN PT AND ILC

Cleared NABL audits onsite assessment due to strong performance.

TRUSTED BY GLOBAL INDUSTRY LEADERS



Successfully cleared audits and witnessed testing by major organizations.



TECHNICAL CAPABILITIES & INSTRUMENTATION



ADVANCED CAPEX INSTRUMENTATION

Recent installations include LC-ICP-MS, ICP-OES, LC-MS/MS, Bomb Calorimeters, and Microbial Air Samplers to enhance analytical precision.



LIMS IMPLEMENTATION

Integration of Laboratory Information Management System (LIMS) to streamline data handling and ensure quality control.

OPERATIONAL RESILIENCE



IN-HOUSE MAINTAINED UTM (INSTRON 5569)

Maintained outdated UTM entirely in-house without external AMC or support for uninterrupted testing services.

R&D AND SPECIALIZED ANALYSIS



PHYTOCHEMICAL & FOOD RESEARCH

Developed methods for simultaneous determination of Aloin A/B and Emodin in Aloe vera, and optimized Kefir production using non-traditional microbes.



ENVIRONMENTAL & MICROBIOLOGICAL INNOVATION

Isolated petroleum-hydrocarbon-degrading and dye-degrading microorganisms for environmental cleanup applications.



EXPANDING SERVICE CAPABILITIES

Established new endotoxin analysis in animal feed matrices and bacterial endotoxin testing for medical-purpose water.

SRI Foliar Formulation

- Product development
- Field efficacy
- Farmer acceptance
- Commercialisation to DSFCL

- Methyl Mercury
- Phthalates
- Parabens
- VOCs
- Triclosan
- Ethanol amines

METHOD VALIDATION SUCCESSES



MAJOR PROJECT ACQUISITIONS

Secured high-stakes projects for Fosetyl Aluminium method development and the removal of color from Ammonium Sulphate Liquor.