



TEPL - Company and Business Introduction

Technosphere Engineering Private Limited | Innovative Electronics Systems & Smart Engineering Solutions



WHO WE ARE?

Head Office – Bengaluru | Branch1 – Hindupur, AP | Branch2: Lucknow, UP | Branch3: Semliguda, Orissa

At **Technosphere Engineering Private Limited**, we operate across diverse high-impact sectors, delivering advanced electronic systems, innovative technologies, and integrated solutions. Our multi-domain expertise enables us to serve industries with precision, reliability, and a future-ready approach - while fostering a culture of creativity, collaboration, and continuous improvement.

As we continue to grow, our focus remains on **scaling innovation, expanding into new verticals, and strengthening global partnerships**. With a future-ready approach, we are committed to building a **technology-driven enterprise that leads transformation across industries**.

Our company is built on a strong foundation with a clear vision to establish a scalable and sustainable business model, **catering to both domestic markets and international export opportunities**. We have designed and implemented a robust organizational structure that supports long-term growth, operational efficiency, and continuous expansion, aligned with our strategic objectives.

Strong financial discipline with zero liabilities



WHAT WE DO?

We are committed to building a diversified, future-ready organization that leverages innovation, domain expertise, and global partnerships to create scalable and sustainable impact across industries.

We strive to:

- ❑ **Drive innovation** through advanced technologies, R&D, and next-generation solutions in AI, IoT, robotics, and electronics
- ❑ **Build long-term partnerships** with customers, OEMs, global suppliers, and strategic stakeholders
- ❑ **Ensure excellence** in quality, reliability, and service delivery across all business verticals
- ❑ **Expand into high-growth sectors** including drones, agri-tech, medical electronics, and international trade (EXIM)
- ❑ **Empower talent** by fostering creativity, continuous learning, and leadership development
- ❑ **Strengthen training & skill development** through industry-aligned programs, labs, and CSR initiatives
- ❑ **Enable global market access** through Consulting, trading and export-import capabilities
- ❑ **Contribute to sustainable growth** and societal development through responsible business practices and impactful CSR programs

Clear roadmap to achieve ₹50 Cr turnover in FY 2026–27



VISION and MISSION

VISION:

To become a global partner in electronic systems and technologies, accelerating innovation across industries through high-performance solutions, strategic partnerships, and scalable business models and set new benchmarks in quality, reliability, and service—while consistently delivering superior value to customers, partners, and society.



Our Mission:

To design, develop, and deliver high-performance electronic systems, engineering solutions, and technology-driven services that address complex industry challenges across Aerospace & Defence, Energy, Industrial, Emerging Technologies, Drones, AI Labs, Agriculture, Medical Electronics, Training & Skill Development, Trading, and EXIM (Export-Import) sectors.

Our Commitment

We are driven by a clear purpose—to innovate, deliver, and lead in the field of electronic systems while building a future-ready organization that creates lasting value for industries and communities worldwide.



Organizational Structure & Management

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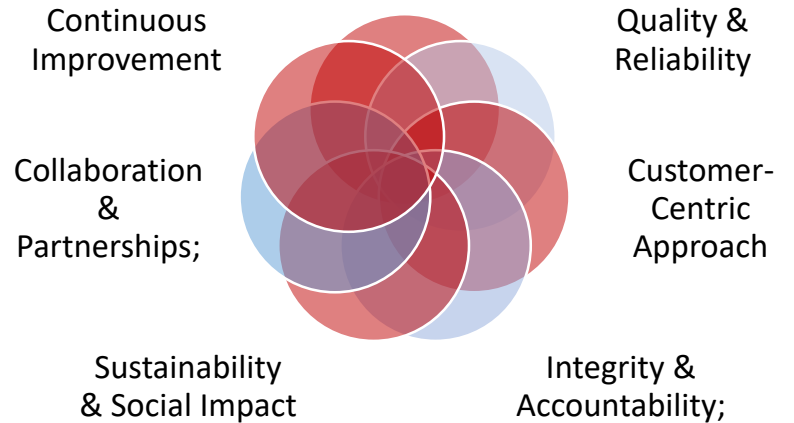
Core Leadership Team



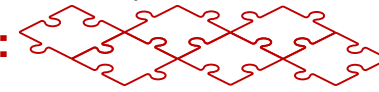
- ❑ CEO (Founder): Vision, strategy & growth
- ❑ Technical Advisor & Mentor: Strategy, investments & partnerships
- ❑ Technical Head: Engineering, product development & innovation
- ❑ Sales & Marketing Director: Business growth & market expansion

Core Values

Innovation
Excellence



Our work culture emphasizes:



- ❖ Integrity and accountability
- ❖ Customer-centric approach
- ❖ Innovation and continuous improvement
- ❖ Collaboration and teamwork

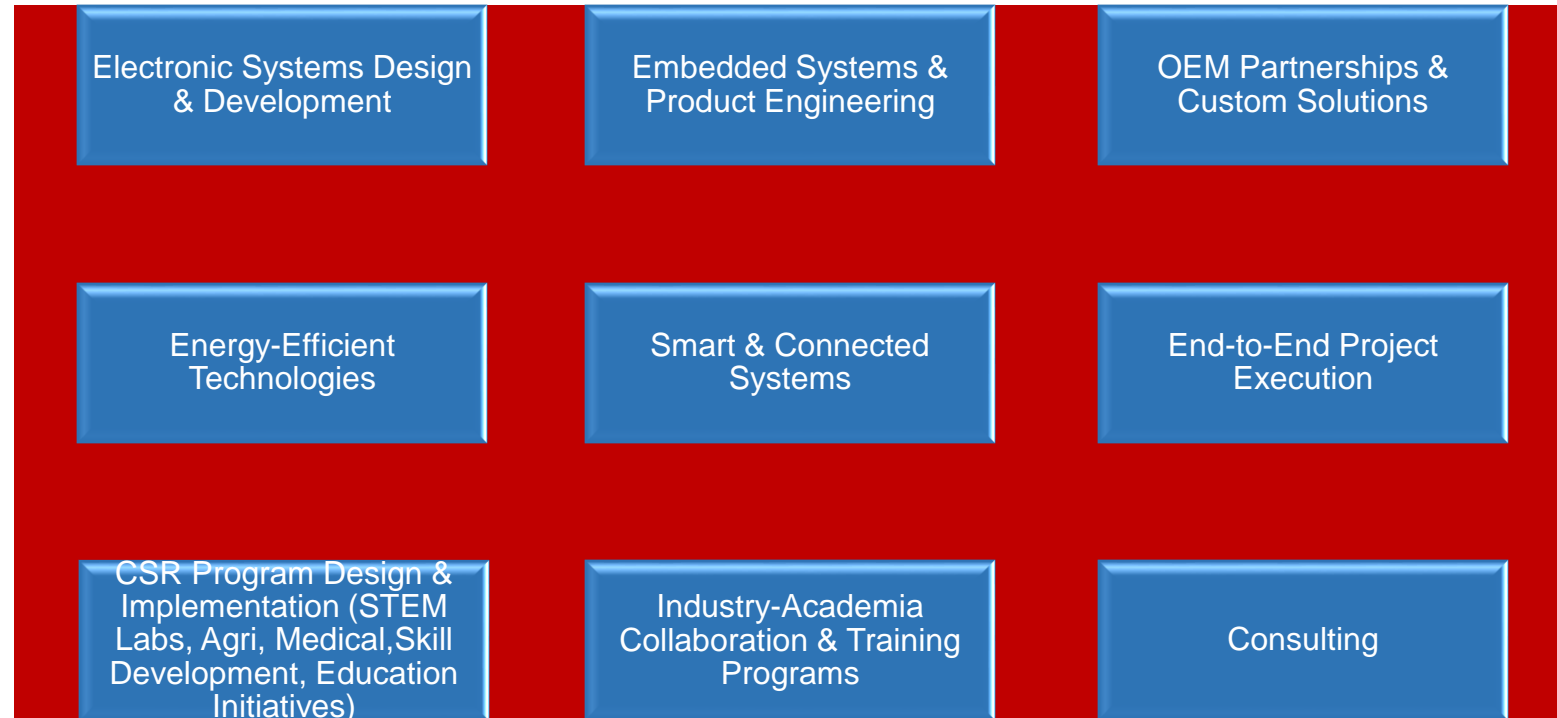
With the right people, processes, and governance structure in place, we are well-positioned to build a high-growth, customer-centric, and globally competitive organization that creates sustainable value for all stakeholders.





Business Verticals & Core Offerings

- Energy & Smart Infrastructure
- Industrial & OEM Solutions
- AI, IoT & Robotics
- Agri-Tech Solutions
- Medical Electronics
- Training, Skill Development & CSR
- Trading & EXIM (Global Sourcing & Supply)
- Consulting
- Aerospace & Defence Electronics
- Drone Technologies



Technosphere Engineering operates across diverse high-growth sectors, combining technology, manufacturing, sustainability, and social impact to deliver scalable and innovative solutions.



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Our Strengths

- ❑ Diversified Business Model across OEM, Energy, CSR, IoT, Drones, and EXIM
- ❑ Strong in-house design & manufacturing capabilities (SMT + THT + Testing)
- ❑ Established client base (100+ customers) with recurring orders
- ❑ Zero financial liabilities with disciplined financial management
- ❑ Certified organization (ISO, ZED Gold, GeM, MSME, NSIC, NISE, Tax Exemption, Startup recognition, Last 3yrs IT returns)
- ❑ End-to-end capability (Design → Manufacturing → Deployment → CSR execution)

End-to-end capabilities

High quality & reliability

Strong partnerships

Scalable solutions

- ❑ Growing CSR execution capability (high-margin and scalable segment)
- ❑ Existing infrastructure (15,000 sq ft) enabling scale without heavy capex
- ❑ Multi-domain expertise across emerging and core industries
- ❑ Strong focus on innovation, quality, and reliability
- ❑ Strategic partnerships with OEMs and technology providers
- ❑ Proven capability in CSR project execution and training programs
- ❑ Scalable solutions tailored to customer needs
- ❑ Capability to deliver from concept to deployment

Why Choose Us

OPPURTUNITIES & Target Market

- ❑ Rapid growth in Electronics Manufacturing in India (Make in India push)
- ❑ Expansion of CSR funding (₹20,000+ Cr annually in India)
- ❑ Increasing demand for energy-efficient & solar solutions
- ❑ High-growth sectors: AI, IoT, Drones, Smart Infrastructure
- ❑ Government initiatives:
 - ✓ Smart Cities
 - ✓ Digital India
 - ✓ Skill India
 - ✓ Renewable Energy Mission
- ❑ Export opportunities in Africa, Middle East, and Southeast Asia
- ❑ Rising demand for custom OEM electronics solutions

Strategic Impact - Upcoming developments are aimed at:

- Expanding into high-growth markets (EV, IoT, renewable energy)
- Building proprietary product lines with higher margins
- Strengthening technology leadership and IP creation
- Supporting the company's growth roadmap towards ₹30 Cr → ₹100 Cr scale



Target Market Segmentation

Segment	Revenue Potential	Nature
OEM & Industrial	High	Recurring
CSR & Education	Very High	Project-based
Government	High	Large-scale
Energy & Solar	High	Growing
Agriculture	Medium-High	Emerging
Exports	High	Scalable

Innovation Focus Areas

- Energy-efficient and sustainable technologies
- IoT-enabled smart and connected solutions
- High-efficiency power electronics systems
- Industry-specific application development (Agri, Utility, Infrastructure)



Line Strength & Manufacturing Capabilities

End-to-End Capabilities

- ❑ PCB Fabrication – High-quality PCB manufacturing through trusted vendor ecosystem
- ❑ Prototype PCB Assembly – Fast turnaround for design validation and pilot runs
- ❑ Mass PCB Assembly – Scalable production for large-volume requirements
- ❑ Turnkey Manufacturing – Complete solution from sourcing to assembly and testing

Component & Assembly Capability

- ❑ Supports components from 0201 size to complex ICs
- ❑ Expertise in handling:
 - ✓ QFP (Quad Flat Package)
 - ✓ QFN (Quad Flat No-leads)
 - ✓ BGA (Ball Grid Array)
 - ✓ CSP (Chip Scale Package)
- ❑ Fine-pitch capability up to 0.2 mm pitch

Technology Coverage

- ❑ SMT Assembly – High-speed, high-precision automated placement
- ❑ Through-Hole Assembly – Robust soldering for mechanical strength
- ❑ Mixed Technology Assembly – Combined SMT + THT for complex designs

Operational Strength

- ❑ 24/7 SMT Production Capability for high-volume and time-sensitive projects
- ❑ Flexible manufacturing for low, medium, and high-volume production
- ❑ Ability to handle complex and multi-layer PCB assemblies

Key Advantages

- ❑ End-to-end design to manufacturing integration
- ❑ High precision for advanced electronic assemblies
- ❑ Faster turnaround with continuous production operations
- ❑ Capability to support OEMs, start-ups, and large enterprises

Value Proposition

Faster time-to-market | Cost-effective custom solutions | Strong quality control and innovation | Scalable products for government, industrial, and commercial applications

We offer comprehensive PCB assembly solutions across SMT (Surface Mount Technology), Mixed Technology, and Through-Hole Technology, catering to diverse product requirements—from prototyping to high-volume production.



In-House Product Portfolio - Development and Upcoming Innovations

Power Electronics & Drivers

- LED Drivers: 2W – 100W range (PWM & Analog Dimmable options available)
- DC–DC LED Drivers with inbuilt solar charging (PWM & MPPT variants)
- SMPS & Battery Chargers (CC/CV): Up to 100W
- BLDC Controllers:
 - 50W BLDC Controller
 - BLDC Fan Controller

Solar & Renewable Energy Solutions

- PWM Solar Charge Controllers (Lighting Applications)
- MPPT Solar Charge Controllers with RMS
- Solar CCTV Controller Systems
- Solar-Based Lighting Systems (Integrated Solutions)

Lighting Solutions

Indoor & Residential:

- LED Linear Lights
- LED Home Lighting Kit (3-Light System)
- LED Lanterns

Outdoor & Industrial:

- LED AC Street Lights: 10W – 150W
- LED AC Flood Lights: 50W – 1000W
- LED High Bay Lights: 50W – 250W
- Solar Street Lights & Solar Flood Lights

Automation & Control Systems

- Astronomical Timer (Automatic lighting control based on sunrise/sunset)
- Solar CCTV Integrated Systems

Specialized & Application-Based Products

- Solar Insect Trap (System & Control Circuit)
- Solar Insect Trap Circuit
- Solar CCTV Controller Circuit
- Dental Spot Light

Under Development

Advanced Power Electronics

- ❑ High-Power BLDC Controllers: 1000W – 3000W range for industrial and EV applications
- ❑ Micro Inverters (High Frequency): 100W – 1000W for solar energy systems
- ❑ Solar UPS Systems: Up to 10 KVA capacity for reliable backup and energy management

IoT & Smart Systems

- ❑ IoT Gateway Device: Centralized control and data management platform for connected systems
- ❑ Mesh & Node Modules: Designed for smart lighting and smart infrastructure applications enabling scalable, connected ecosystems

Agri-Tech & Smart Solutions

- ❑ Grow Lights: Specialized lighting solutions for horticulture and poultry applications, improving productivity and efficiency

Smart Utility Solutions

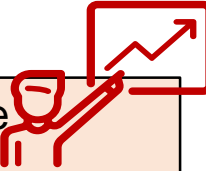
- ❑ IoT-enabled RO Purifier Rental Module:
- ❑ Smart monitoring, usage tracking, and remote management for water purification systems

Innovation Focus Areas

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- ❑ High-efficiency power electronics systems
- ❑ Industry-specific application development (Agri, Utility, Infrastructure)



Expansion Strategy



A. Expansion Strategy

- Multi-Vertical Growth Model
- We are scaling across high-growth sectors:
- Electronics Manufacturing (OEM & Industrial)
- Energy & Solar Solutions
- CSR & Education Projects
- IoT, AI & Smart Systems
- Drones & Emerging Technologies
- Trading & EXIM

Approach:
Diversified revenue streams to reduce risk and increase scalability.

B. Geographic Expansion

- Strengthening presence across PAN India
- Expanding into Tier 2 & Tier 3 markets (CSR + infrastructure)
- Targeting international markets:
 - ✓ Africa
 - ✓ Middle East
 - ✓ Southeast Asia

C. Product & Technology Expansion

- Development of in-house IP-based products
- Focus on:
 - ✓ BLDC controllers
 - ✓ IoT devices & smart systems
 - ✓ Solar electronics and energy systems
- Goal: Move towards high-margin, technology-driven product portfolio.



D. Strategic Partnerships

- OEM collaborations for manufacturing scale
- Corporate tie-ups for CSR program execution
- Partnerships with system integrators and distributors



E. Capacity & Capability Expansion

- Scaling production with existing 15,000 sq. ft. facility
- Enhancing automation and quality systems
- Expanding technical and sales teams



Competitive Advantage

- ✓ Integrated model: Manufacturing + Technology + CSR
- ✓ Strong positioning in high-growth and ESG-aligned sectors
- ✓ Ability to deliver end-to-end solutions at scale
- ✓ Focus on innovation and sustainability together



Training, Skill Development & Social Impact

Training & Skill Development

- Solar certification & technical training programs
- STEM labs & innovation centres
- Industry-ready skill development initiatives
- CSR-driven employability programs
- Drone Training programs

Livelihood & Social Impact

- Skill development for rural & underserved communities
- Entrepreneurship support in solar & electronics
- Technology-driven livelihood generation
- CSR-aligned sustainable development programs

Academic & Training Partners

- Engineering colleges
- Skill development institutes
- Training organizations



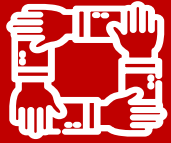
Program Highlights & Outcomes

- Hands-on training with real-time systems
- Industry-aligned certification
- Focus on employability & entrepreneurship

Career Pathways: Installation Technician | Design Engineer | O&M | Project Engineer | Solar Entrepreneur

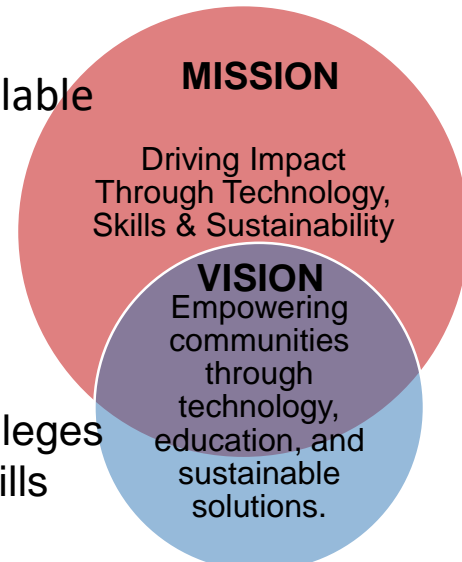
Solar Certification Programs

- ✓ **Foundation & Design**
 - Solar Technology, Renewable Energy, PV Design (PVSYST, PV*SOL, SAM)
- ✓ **Installation & Technician Programs**
 - Solar Installation, O&M, Inverter Servicing
 - Junior to Senior PV Technicians & Engineering Assistants
- ✓ **Advanced & Career Programs**
 - Technical Sales & Renewable Energy Entrepreneurship

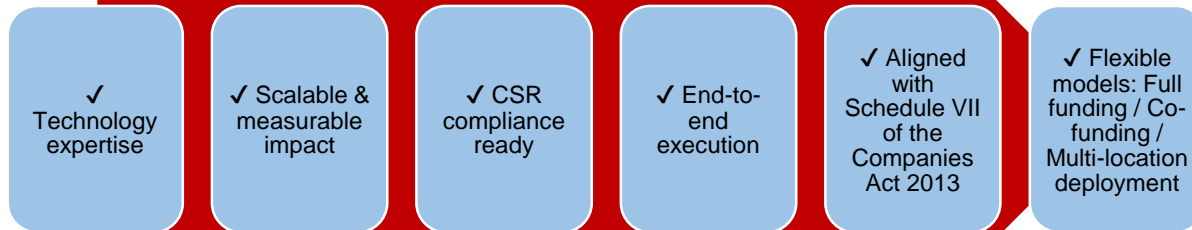


CSR PARTNERSHIP – Technology-Driven Social Impact Initiative

Technosphere Engineering Pvt. Ltd. is a technology-driven organization focused on delivering scalable solutions across **education, skill development, and sustainable energy systems**. We work with industry partners, institutions, and government bodies to implement high-impact programs.



Why Partner With Us



“Innovating Impact. Empowering Future.”

Our CSR Initiatives

1. STEM & Innovation Labs

Robotics, AI, IoT labs in schools & colleges
Hands-on learning for future-ready skills

2. Skill Development Programs

Training in Embedded Systems, EV, Industry 4.0
Enhancing employability for youth

3. Energy & Sustainability Projects

LED retrofits and solar solutions
Smart energy monitoring systems

Implementation Model :

Corporate CSR Partner → Technosphere Implementation → Deployment → Monitoring & Reporting





Consulting & Strategic Advisory

End-to-end consulting to drive technology, government, and global project success

Government Tenders & Advisory

- Tender ID, bids, compliance
- BOQ & execution planning

Large Strategic Projects

- Feasibility & due diligence
- Execution & monitoring

Govt Programs & CSR

- Scheme advisory
- CSR design & impact reporting



Global Collaborations

- Partnerships & JVs
- Market entry & OEM alliances

Training & Skill Development

- STEM labs & training centers
- Curriculum (Solar, IoT, Electronics)

Investment & EXIM Advisory

- Fundraising & ROI
- Export-import & global partners



Enabling organizations to plan, execute, and scale high-impact projects



Aerospace & Defense - Strategic Focus and Capabilities

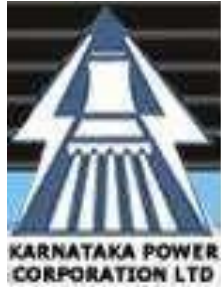
- ❑ **Registered Vendor Base**
Approved vendor with **BHEL & BEL**
Strong positioning for government and PSU projects
- ❑ **Business Strategy**
Focus on **defense-related trading & tender participation**
Targeting high-value contracts in aerospace & defense sectors
- ❑ **Leadership**
Business vertical led by an **experienced industry leader**
Strong domain expertise in execution & partnerships
- ❑ **Global Collaborations**
Exploring **international partnerships** for technology & supply chain
Bringing **global solutions to local markets**
- ❑ **Growth & Expansion**
Actively pursuing **projects, programs, and joint ventures**
Open to **strategic partnerships & investment opportunities**





Our Clients

Technosphere
Engineering Pvt Ltd



ADITYA BIRLA GROUP



PURAVANKARA[®]

Technosphere
Engineering Pvt Ltd



Thank you!

Nanda Kishore H. (CEO)

Technosphere Engineering Private Limited

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“Driven by Innovation. Defined by Quality.”