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## About Presevi Industries Pvt. Ltd.

Presevi Industries Pvt. Ltd., Chennai, India—established in 1985—is an Original Design Manufacturer (ODM) with an independent R&D division and two manufacturing facilities. The company specializes in designing, developing, and manufacturing highly reliable electronic controllers for appliance industries, including air conditioning, refrigeration, and washing machines. Presevi Industries serves diverse sectors such as energy, hospitality, agriculture, space and atomic research, railways, defense, telecommunication, research organizations and more. With 4 decades of cumulative knowledge and expertise in power electronics, instrumentation, and mechatronics-based system design, the company integrates reliability considerations like FMECA, FTA, MTTR, and MTBF at the very first phase of product design. Over the years, the firm has successfully completed numerous innovative, research-based product developments in mechatronics, power electronics, embedded controller development, instrumentation, and networking. These have been delivered for esteemed clients such as Indian Railways, ISRO, IGCAR, BSNL, IIT, and others.

## Reliability & Quality

As mentioned earlier, Presevi provides cost-effective electronic control solutions to major OEMs in the appliance sector, including manufacturers of air conditioners, washing machines, domestic ovens, and to customers in the hospitality and energy-saving domains. What sets Presevi apart from its competitors is a steadfast commitment to **Design for Manufacturing (DFM)** with **built-in reliability**, a culture of **first-time-right execution**, and a continuous drive for innovation. The company rigorously applies quality measurement tools, defect elimination techniques, and adopts quality and reliability improvement policies as part of an ongoing process. At the **design stage**, we integrate reliability methodologies such as **FMECA (Failure Modes, Effects and Criticality Analysis)** and **FTA (Fault Tree Analysis)**. Parameters like **MTBF (Mean Time Between Failures)** and **MTRR (Mean Time between Repair and Replace)** are actively considered to ensure long-term dependability. During manufacturing, techniques such as **Statistical Quality Control (SQC)**, **in-house burn-in** of critical components, and **100% inspection** of finished products are employed to eliminate defects and ensure only the highest-quality components reach our customers.

## Organization

R&D, product design, manufacturing, and servicing form the core pillars of Presevi Industries Pvt. Ltd. These functions are supported by a team of highly qualified and well-trained professionals with deep domain expertise. Their contributions are instrumental in achieving key outcomes such as defect reduction, extended product life, and enhanced customer satisfaction.

## Research & Development

An **independent R&D division** of Presevi Industries Pvt. Ltd. is driven by a dynamic team of young, enthusiastic engineers and technicians with specialized expertise in **instrumentation**, **embedded controller design**, **power electronics**, **process automation**, and **manufacturing**. The team is deeply motivated and highly committed to innovation and professional excellence. Presevi invests significantly in **technology upgrades**, **personnel training**, and **infrastructure**, including a well-equipped technical library and modern lab equipment. Our strong belief in **teamwork** has enabled us to successfully complete numerous challenging projects and launch several innovative products. By embracing **state-of-the-art technologies**, we have not only strengthened our product portfolio but also achieved **patentable innovations**. In line with our commitment to industry-academia collaboration, we also **mentor and financially support university students** through internships and engineering project assistance.

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## **Manufacturing**

With two well-equipped factories, Presevi Industries Pvt. Ltd. manufactures electronic controllers for OEMs in the appliance industry, energy-saving applications and the hospitality sector. In addition to high-volume production, we also develop specialized low-volume controllers tailored to the unique requirements of defense, railways, space, and security applications. Our manufacturing facilities are equipped with advanced testing infrastructure to ensure consistent product quality. Every product undergoes burn-in testing to enhance reliability and extend operational life. Comprehensive, rigorous quality checks are conducted using specialized test equipment and procedures, handled by our skilled and qualified personnel. We also maintain a computerized inventory management system, which plays a key role in tracing defects, identifying substandard components, and eliminating unreliable vendors, further ensuring the delivery of dependable and high-performance products.

## **Sales and Services**

**After-sales service** is a critical factor in achieving a favorable **Mean Time to Repair (MTTR)**, and Presevi Industries places strong emphasis on this aspect. Our **sales team works in close coordination with the service department**, ensuring prompt and effective response to customer field complaints and providing reliable backup support. Our **computerized service management system** enables precise identification of **defective components**, analysis of **defect patterns, repeatability, and failure mechanisms**. This data-driven approach supports the generation of key reports such as **Field Failure Analysis (FFA)**, **reliability predictions, product availability statistics, Mean Time Between Failures (MTBF)**, and **MTTR estimates**. These insights are crucial in enhancing the performance and reliability of our **tropically-hardened electronic controllers**, designed to meet the demanding **environmental challenges** faced by our **B2B customers** across various sectors.

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**An ISO certified BEE empaneled ESCO firm with an independent R&D division**