



ELCOM INNOVATIONS

AS 9100D COMPANY

Engage | Embed | Excel

BUSINESS CAPABILITY STATEMENT



Innovation in Aerospace, Excellence in Electronics and Tactical Communication

ELCOM Innovations Private Limited (ELCOM), an Indian company built by technocrats and professionals offers a complete repertoire of indigenously designed and developed products & technology platforms in electronics and communication including contract manufacturing. ELCOM is part of the globally present SUN Group, with its varied interests in Advanced Electronics, Artificial Intelligence, Renewable Energy, Data Centres, Infrastructure and Strategic Investments, etc giving it a firm foundation to stand & grow.

ELCOM is focused on Avionics, Tactical Communication, Electronic Warfare (EW), SATCOM, Counter UAV, Network Intelligence and Security Solutions and Homeland Security across Defence, CAPF and Intelligence Forces. ELCOM's joint venture arm Millenium Manufacturing Systems focuses on manufacturing utility scale Power Electronics products for renewable energy platforms. Headquartered in New Delhi, ELCOM has a turnover of INR 100+ Crores employing over 110 people mostly engineers & technocrats. At ELCOM, we believe in creating a friendly work environment that encourages creativity and is result-oriented.

Core Strengths:

- 01 Holistic R&D for next gen 'Innovation'
- 02 Manufacturing by turning Research into Reality - 'Made in India'
- 03 Empowering global brands with our manufacturing strength - 'Make in India'
- 04 Bridging Systems, Building Solutions as 'System Integrators'
- 05 Government Licensing, Procedures & Processes - 'Compliance to the Core'

01 Holistic R&D for Next Gen 'Innovation':

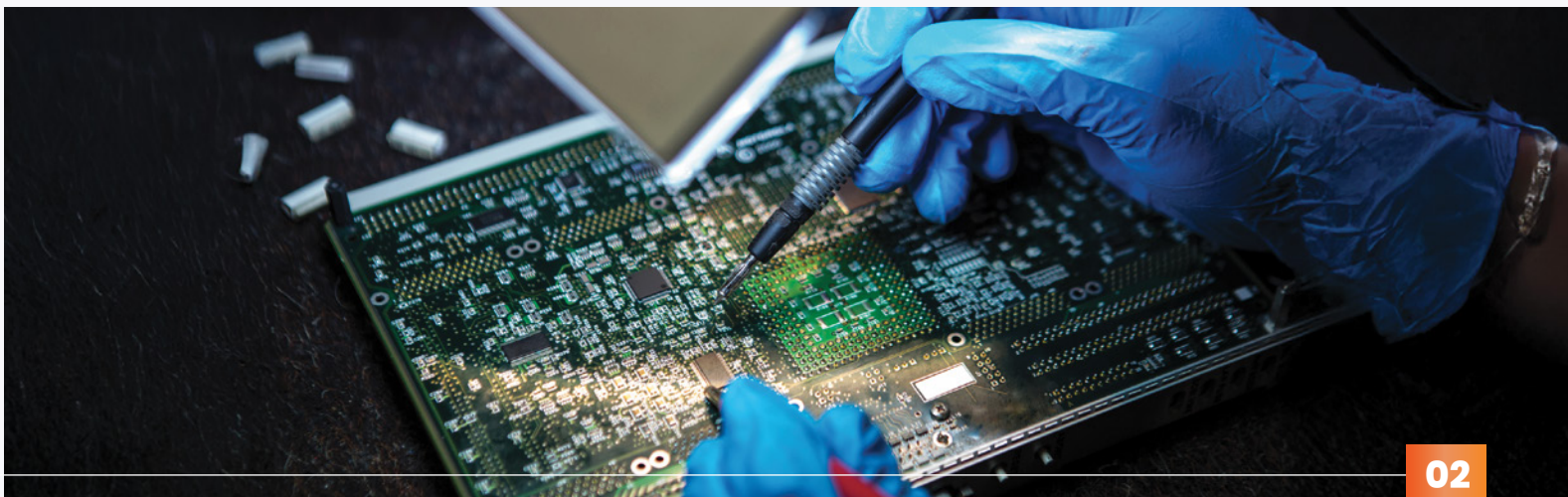
ELCOM's R&D team has to its credit, a list of application-oriented research work in the fields of Defence Communication, EW, Soft Switching and inter-operating platforms. It holds Technology patents from India, Israel and Switzerland for its uniqueness in MBT/ICV communication capabilities and a few design patents for grade communication devices. It has to its credit several application-oriented research works with products competing with international players. ELCOM's designs today have been accepted the world over and appreciated by global A&D giants. ELCOM's R&D Lab is recognized by the Ministry of Science and Technology.

Areas Of Expertise:

- SDR based Signal Monitoring, Analysis, Baseband Recorder and Player
- Hardware/Software trade-off analysis to optimize cost and efficiency
- Requirement analysis and embedded software architecture design
- Product Engineering & Prototyping as per customer specifications
- Technical Documentation as per Mil JSS 251-01 Standards
- Hardware designing including Circuit and PCB designing
- Telecommunication and IP protocol implementation
- Power consumption & heat deception optimization
- Design & Fabrication of Mil Standard equipment
- Wired and Wireless Communication Solutions
- Ruggedization as per Mil Standards

Algorithm Implementation:

- Block processing frequency domain blind signal analysis and active noise reduction
- Radio decoders like DVB, DVB-S2, DMR, dPMR, TETRA, NFM, WFM, AM, PSK, QPSK, CW, SSB, USB, Lora, Mil Modem etc



02 Manufacturing By Turning Research Into Reality – ‘Made In India’:

Our manufacturing facilities are spread over seven acres in three sprawling buildings, located in Mohali, Punjab. The advanced defence manufacturing facility offers avionics-grade EMS, test labs equipped with environmental, vibrational and QA processes to produce best-in-class products.



In-House Capability In:

- Industrial/MIL grade design/development including mechanical sub-assemblies
- Ruggedization and sheet metal – Racks and Cabinets
- Environmental and Ruggedization testing facilities
- EMI / EMC testing as per Mil Standards
- Prototyping and bulk production



Assembly & Testing Process:

- Multilayer PCB assembly: state-of-the-art SMT pick and place
- Environmental, Rain Chambers and 3 Axis Vibration Machine
- Automatic Test Equipment (ATE), PCB Testing Stations
- Quality processes as per Standard IPC610F, Class-II
- Cable Harness



In House Products:

- SDR based RF (H/V/UHF) Spectrum Monitoring & Analysis Software System
- Ruggedized Tactical Exchanges and Ruggedised Phones – IP & Analog
- IP based MBT/ICV/Vehicle/Ship/Submarine Intercom Systems
- Design and Manufacturing of Ruggedised Power Supplies
- IP based Inter-Operable Device and Media Gateway
- Recording & Playback Systems
- NIB for Captive GSM Networks

03 Empowering Global Brands with Our Manufacturing Strength – ‘Make In India’:

- Manufacturing robotic waterless solar panel cleaners for a global OEM
- Manufacturing airborne radios for a global design house
- Manufacturing ruggedized phones for a global OEM



04 Bridging Systems, Building Solutions As ‘System Integrators’:

ELCOM believes in nurturing long-term partnerships with recognized and reliable global partners to bring critical technologies for its valued customers, at a cost advantage, without compromising on quality. ELCOM is also committed to co-development and value-addition with its technology partners to ensure customer satisfaction and meet ‘Make in India’ requirements. Some products/solutions under our expertise are:

- SDR based spectrum monitoring EW solutions with recorder & player
- Radios – SDRs, Airborne and Tactical IP in Band 3 & 4
- SATCOM solutions – C, extended C, Ku bands
- Radars, C-UAV and Jamming solutions
- Network Intelligence & Security solutions
- Antenna solutions: H/V/UHF & SATCOM



05 Government Licensing, Procedures & Processes – ‘Compliance to the Core’:

- **Certifications:** AS-9100D & ISO 9001:2015; MSE
- **Defence Industrial License:** Category ‘A’ License for manufacturing & export of SDRs, Radars, C4I Systems, Communication Shelters, Mil Grade Radio, Communication and Surveillance Equipment
- **Experienced Leadership:** Led by industry and government experts with decades of experience in procurement, product design, project management, QA and business development
- **Proven Track Record:** ELCOM has a history of successful projects with both domestic and international defence customers

Contact:

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