SERTEL

Built for Accuracy, Unmatched Reliability

EST . 1990

CHENNAI · INDIA



CORPORATE PORTFOLIO

Innovating for Tomorrow's Industries.

Three decades of engineering excellence - delivering precision instrumentation, industrial automation and smart monitoring solutions to industries across the globe.

TIME AND FREQUENCY • GNSS SOLUTION • UPPER AIR SOUNDING SYSTEMS (UASS) • WEATHER STATIONS • RENEWABLE & SOLAR SOLUTIONS • PROCESS CONTROL • CONDITION MONITORING



Sertel Electronics

Made in India Private Limited

EST. 1990 · CHENNAI · INDIA

SALES / SERVICES : +91 98400 63003

Table of Contents

SERTEL Corporate Portfolio 2026 - eighteen sections covering the company, its capabilities, products, partnerships and people.

About Sertel Electronics - Heritage, manufacturing & global footprint **03**

Vision, Mission & Values - Strategic direction & culture **04**

Our Journey 1990 - Present - Three decades of milestones **05**

Global Presence & Leadership - Offices, deployment, board **06**

Core Competencies - Engineering & quality framework **07**

Why Choose Sertel - Differentiators & value **08**

Industries Served - Six major verticals **09**

Govt., Defence & PSU - Strategic programmes **10**

Research & Development - DSIR-approved R&D centre · capabilities **11**

R&D Programmes & Infrastructure - Active programmes & lab facilities **12**

Product Portfolio - Six families **13**

Detailed Catalogue - Complete catalogue **14**

Partnerships - OEM & standards **15**

Certification Overview - Recognized standards and approvals letters **16**

Client Testimonials - Performance letters **17**

After-Sales Service - Standard · AMC **18**

Order-to-delivery Process - Workflow **19**

Contact Us **20**

CONFIDENTIALITY

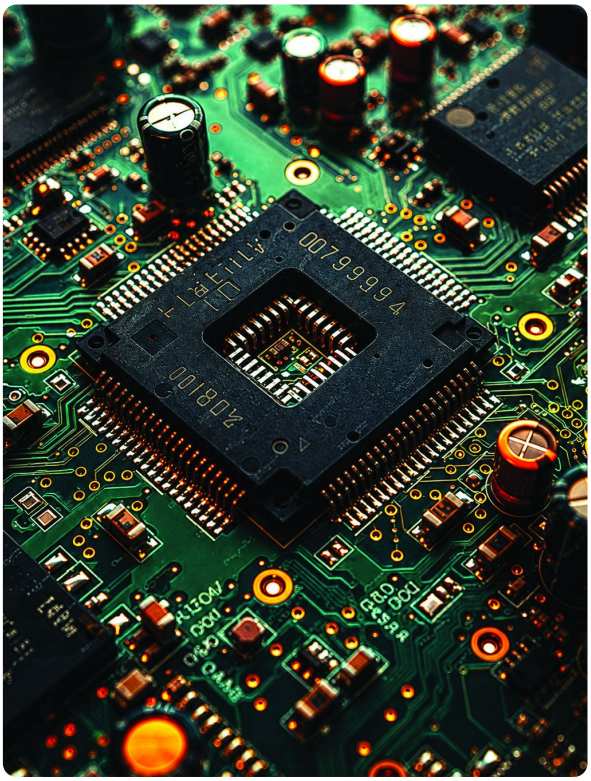
This document is prepared exclusively for authorised clients, partners and stakeholders of Sertel Electronics Pvt Ltd. All information is proprietary and confidential.

Three and a half decades of engineering excellence in industrial electronics.

Sertel Electronics Pvt Ltd is one of India's foremost industrial electronics and automation companies. Founded in 1990 in Chennai, Tamil Nadu, by Mr. Gopalan R, the company began as a regional electronics solutions provider and has since evolved into a respected manufacturer and technology innovator serving demanding industrial environments.

Today, Sertel delivers precision-engineered products and integrated solutions across renewable energy, process automation, industrial instrumentation, meteorology, and time synchronisation - serving power utilities, cement and steel plants, solar developers, national meteorological agencies, defence establishments, and public sector undertakings

From our Chennai headquarters and fully integrated manufacturing facility, we have executed 15,000+ projects, installed 20,000+ systems, and serve a trusted base of more than 1000 organisations - every product designed, built and tested under one roof.



35+
YEARS OF EXPERTISE
Est. 1990

20,000+
SYSTEMS INSTALLED
Across India

15,000+
PROJECTS EXECUTED
Past three decades

1000+
CLIENTS SERVED
PSUs · MNCs · Govt.

PCB Design & Fabrication
Multilayer design, DFM analysis, inhouse SMT & THT assembly for industrial-grade and mil-grade boards.

Embedded Firmware
Microcontroller and FPGA firmware for real-time control, precision timing and communication stacks.

Mechanical & Enclosure
Custom DIN-rail, rack and field-panel enclosures to IP65/IP67, including hazardous-area variants.

System Integration & FAT
Full assembly, multi-vendor integration, factory acceptance testing and on-site commissioning.

Quality Assurance
ISO-aligned QA - incoming inspection, burn-in testing, environmental screening and FAT

Software & Cloud
HMI, SCADA, Modbus and cloud monitoring developed in-house with full lifecycle support.

The strategic pillars and cultural foundations that guide us.

OUR VISION

Shape a sustainable future through innovation

To pioneer innovations in renewable energy, advanced meteorology and precision industrial automation - empowering industries worldwide with smarter, more efficient and more resilient technologies that drive economic growth, environmental stewardship and national technological self-reliance.

OUR MISSION

Engineer reliable, world-class technology.

To design, develop and deliver innovative electronic products and integrated solutions in renewable energy, process automation, environmental monitoring and precision instrumentation - backed by world-class after-sales support and continuous R&D advance-ment.

OUR CORE VALUES

01

Innovation Without Boundaries

10–15% of annual turnover invested in R&D. Our DSIRapproved centre pursues new product concepts, disruptive technologies and proprietary IP across embedded systems, IoT & cloud analytics.

02

Uncompromising Quality

An organisational philosophy embedded into every stage - sourcing, fabrication, firmware, system testing. ISO-certified processes reinforced by missioncritical deployment requirements.

03

Customer Partnership

We treat each project as a longterm partnership - investing time in operational context, regulatory needs and scalability before proposing solutions.

04

Engineering Integrity

We do not re-badge imported commodity products or inflate claims. Sertel products are designed, built and tested entirely by our own engineering teams.

05

Sustainability & Responsibility

Long operational lifespans, genuine spares and active development of clean-energy technologies - BESS integration, solar tracking, robotic cleaning, weather monitoring.

06

People & Knowledge

Our most enduring advantage is the collective knowledge of our engineering workforce. Senior engineers mentor emerging talent - preserving heritage while renewing capacity

STRATEGIC COMMITMENT

SERTEL is committed to growing as a globally recognised Indian technology company - develop-ing proprietary IP, deepening international partnerships and contributing to India's manufacturing self-reliance under the Make in India framework.

From a Chennai workshop to a national technology company.

1975–89

Origin

The early years as TELSER

Began servicing televisions, distributing L&T Process | T&M | Instruments and delivering Amano time systems.

1990

Foundation

SERTEL Electronics founded

Mr. Gopalan R starts Sertel in Chennai locally engineered electronics and switchgear.

1995

Capability

Industrial panel design

Expanded into switchgear panel design and integration for the Chennai industrial belt

2000

Pivot

Integrator to product company

A strategic shift to designing proprietary instruments in-house.

2005

Leadership

Time-synchronization leader

Leading supplier of GPS time-sync systems to power utilities and SCADA operators.

2010

International

First overseas OEM work

Alarm annunciators built in Chennai to demanding global benchmarks.

2016

Range

Single-source instrumentation

Isolators, DP transmitters, sensors and converters join the catalogue.

2018–22

SCALE-UP

National solar & weather scale

Solar monitoring and weather stations across SECI and MNRE projects nationwide.

Today

DSIR R&D

DSIR-approved R&D centre for two decade

Recognised by the Ministry of Science & Technology, 10-15% of turnover reinvested.

Global footprint in 10+ countries.

INDIA . HQ

Chennai - Global Headquarters

Sreyas Building, P.B. 5057, 377 Nehru Nagar, 1st Cross Street, OMR, Perungudi, Chennai 600 096, Tamil Nadu, India

Manufacturing · R&D · DSIR centre · Engineering · After-sales · Global operations.

MANUFACTURING

Production & QA Facility

In-house SMT, THT, panel assembly, environmental testing & FAT - colocated with R&D for fast prototyping and zero-handoff design-to-production iteration.

Chennai · Tamil Nadu

INTERNATIONAL DEPLOYMENT FOOTPRINT

India | Malaysia | UAE | Saudi Arabia | Bahrain | Oman | Sri Lanka | Bangladesh

Nepal | Peru | Vietnam | USA | South Africa | Australia | Singapore

BOARD OF DIRECTOR & SENIOR LEADERSHIP

G

Mr. Gopalan R

CHAIRMAN & FOUNDER

S

Mr. Srikanth Gopalan

MANAGING DIRECTOR

WHY GLOBAL CUSTOMERS CHOOSE SERTEL

35+ Years of Excellence

Legacy of trust, quality and innovation since 1990.

In-house R&D

Continuous innovation with DSIR recognized R&D center

Advanced Manufacturing

Modern production facility with strict quality and testing standards

Customized Solutions

Application specific solutions built for critical requirements

Global Deployment

Proven solutions deployed in 10+ countries worldwide.

Quality Assurance

International quality standards with reliable after-sales support.

The technical strengths and engineering capabilities that define Sertel.

Six core competencies, developed and validated over three decades - institutional knowledge, quality discipline and a culture of continuous improvement that distinguishes Sertel from commodity importers and resellers.

01 · End-to-End In-House Engineering

Concept, schematic, PCB layout, firmware, mechanical, integration, FAT and commissioning - every stage owned by Sertel's own engineers. No third-party dependencies for core technology.

02 · DSIR-Recognised Research & Development

An independent centre of engineering excellence - multi-disciplinary teams, 10–15% turnover reinvestment, and a continuous pipeline of new products, enhancements and exploratory research.

03 · Proven Track Record with India's Institutions

Three decades of delivery to ISRO, HAL, BHEL, IOC, NTPC, DRDO, IMD and India's State Electricity Boards - vendor-qualified through rigorous evaluation and long-term performance accountability.

04 · International OEM Quality Standards

Products manufactured to IEC, IEEE, CE and North American specifications. International quality exposure has elevated testing rigour and design practice across our entire range.

05 · Rapid Customisation & Application Engineering

Standard platforms tailored to client environments - custom protocols, modified I/O, ruggedised enclosures, applicationspecific software - fully documented and supportable.

06 · Lifecycle Product Support & Spares

Genuine spares, firmware updates and calibration across active product lines. Structured AMC and CSA programmes deliver predictable cost, response SLAs and maximum uptime.

10–15%	35+	DSIR	ISO
R&D REINVESTMENT	YEARS OF QUALITY	APPROVED R&D CENTRE	CERTIFIED QMS
Annual turnover	Uninterrupted heritage	Govt. of India	In-house testing

A genuine technology manufacturer - not an importer.

In a market crowded with resellers and commodity suppliers, SERTEL stands apart with engineering depth, institutional track record and structured long-term partnership.

Genuine Made-in-India Technology

Designed, developed and manufactured by Indian engineers in India - not imported and re-labelled. Direct access to design engineers, rapid customisation and genuine spares for the entire lifecycle.

Single-Source Solution Provider

Time sync, renewable energy, meteorology, process cameras, level & flow, signal conditioning, software - an unusually broad single-vendor portfolio that reduces procurement complexity

Validated by India's Most Demanding Customers

ISRO, HAL, BHEL, IMD, DRDO and India's leading power generation companies - vendor qualification and operational performance data that prospective clients can rely upon.

International Standards · Indian Pricing

IEC, IEEE and CE compliance - combined with the service responsiveness, spares availability and application support of a local manufacturer

Dedicated Application Support

Field application engineers deployed pan-India - engineers who understand products at the schematic and firmware level. In critical-system environments, depth of local engineering support is often decisive.

Structured Lifecycle Partnership

Standard, AMC and CSA tiers - preventive maintenance, calibration, genuine spares and software upgrades. Equipment delivers consistently high performance for 15–20+ years of continuous service.



Solutions across six major industrial verticals.

From utility-scale solar parks to upper-atmosphere weather sounding, blast-furnace monitoring to precision substation timing - SERTEL's multi-domain expertise is built on genuine application knowledge.



RENEWABLE ENERGY & SOLAR



POWER UTILITIES



PROCESS INDUSTRIES



METEOROLOGY ENVIRONMENT



OIL · GAS & PETROCHEMICALS



DEFENCE

RENEWABLE ENERGY & SOLAR

String monitoring boxes (wired/FO/wireless), combiner boxes, DCDB, diode boxes, automated weather stations - deployed across SECI/MNRE utility-scale solar parks. Wind & BESS monitoring also supported.

POWER UTILITIES

GPS time sync for SOE recording & SCADA timing, alarm annunciators, high-temp boiler cameras, temperature transmitters, BMS, signal isolators. Clients incl. NTPC, BHEL & SEBs.

PROCESS INDUSTRIES - CEMENT, STEEL, GLASS

High-temperature industrial cameras for kiln, blastfurnace tuyere & glass-tank monitoring (1,400°C+). Furnace probes, vibration sensors & signal conditioning for harsh environments.

METEOROLOGY & ENVIRONMENT

Upper Air Sounding Systems, radiosonde, pilot & ozone sondes, automated weather stations, tippingbucket rainfall stations. Trusted supplier to IMD, ISRO & research institutions.

OIL, GAS & PETROCHEMICAL

Radar level transmitters, GWR, ultrasonic level & clamp-on flow meters, signal isolators & protocol converters, alarm annunciators for safety-critical process alarm management.

DEFENCE

Precision GPS time management, ruggedised alarm annunciators, vibration & process monitoring, wireless sensor networks. Track record with DRDO, Armed Forces, ordnance establishments & defence PSUs.

GOVERNMENT, DEFENCE & PSU - APPROVED SUPPLIER

IMD · ISRO · DRDO · HAL · BHEL · BEL · BEML · NTPC · IOC · EIL · NPCL · State Electricity Boards · Army, Navy, Air Force · Ordnance Factories · SECI · MNRE programmes.

Strategic programmes, key organisations and solutions deployed.

A deep and sustained presence in India's government, defence and public sector - built over three decades of consistent technical performance, product reliability and responsive support.

Meteorology & National Weather

India Meteorological Department (IMD) · ISRO · Regional Met Centres · Agri Universities · Renewable Energy Research Institutes

Approved supplier to IMD with a long history of upper-air sounding system delivery. Surface AWS, rainfall stations and cloud-monitoring platforms extend the meteorological reach to agriculture, solar and research applications nationwide.

UASS · Radiosonde · Pilot Sonde · Ozone Sonde · Ground Station · AWS · Rainfall Station · Cloud Monitoring

Power Utilities

NTPC · BHEL · State Electricity Boards · Power Grid Corporation · THDC · NHPC · Central Electricity Authority

GPS time synchronisation deployed across NTPC plants, state utility substations and grid management centres - IEEE 1588 / IRIG-B / NTP precision timing for SOE recording, relay coordination and SCADA/DCS synchronisation.

GPS Time Server · DIN-Rail Time Server · Redundant GPS · Alarm Annunciators · Process Cameras · BMS · Signal Isolators

Defence & Strategic Sector

DRDO · Indian Army · Indian Navy · Indian Air Force · Ordnance Factories Board · ISRO · HAL · BEL · BEML

Defence-grade applications require exacting accuracy, environmental durability, supply security and long-term supportability - attributes our engineering heritage and in-house design capability are built to deliver.

Precision GPS Time Mgmt · GNSS Receiver · Ruggedised Annunciators · Vibration Monitoring · Wireless IoT Networks · BMS

Renewable Energy (SECI / MNRE)

Solar Energy Corporation of India (SECI) · MNRE Approved Developers · State Renewable Energy Agencies · IPPs

String monitoring solutions provide granular perstring performance visibility at utility-scale solar plants, enabling rapid fault detection and yield optimisation. Compatible with all major SCADA and monitoring platforms

SMB (Wired/FO/Wireless) · SCB · DCDB · Diode Box · AWS · Cloud Monitoring · SCADA Integration

KEY GOVERNMENT & INSTITUTIONAL APPROVALS

IMD-Approved Supplier for direct meteorological instrument supply · **MNRE Empanelled** for renewable energy programmes · **DSIR-Recognised R&D Centre** under the Ministry of Science & Technology · **BIS Compliant** with relevant Indian standards · long-standing supply relationships with NTPC, BHEL, ISRO, HAL, IOC and defence establishments.

DSIR - approved innovation - engineering tomorrow's solutions.

R&D is the engine of SERTEL's long-term competitive strategy - formally recognised by the Government of India through the Department of Scientific & Industrial Research (DSIR), Ministry of Science & Technology.

10–15%	8	DSIR	2028
ANNUAL R&D INVESTMENT	CORE CAPABILITY AREAS	GOVT. RECOGNITION	ROADMAP HORIZON
% of turnover	Multi-disciplinary	Past three decades	Active development

Core R&D Capability Areas

PCB Design & Electronics

Multilayer high-speed digital and mixed-signal design with full DFM analysis and in-house prototyping.

Embedded Systems & Firmware

Real-time MCU and FPGA firmware - precise timing, multi-channel acquisition, protocol stacks.

Wireless & RF

LoRa, Zigbee, licensed/ unlicensed RF,cellular and satellite links for industrial IoT.

IoT & Edge Computing

Edge platforms for local processing, gateway aggregation, and cloud delivery in lowband-width sites.

Cloud Data & Analytics

Real-time dashboards, trends, alarms and AI-assisted predictive analytics across renewable and process sites.

Industrial Software

HMI, SCADA, Modbus, data loggers and Display Management Systems - developed and supported in-house.

Power Electronics

Battery monitoring, DC distribution, energy management and BESS integration platforms.

Industrial Protocols

MODBUS, IEC-61850, PROFIBUS, DNP3, IEEE 1588 (PTP), IRIG-B, NTP/SNTP and DCS proprietary protocols.

Technology Roadmap · 2025-2028

2025

- Next-Gen Radiosonde commercial launch
- AI-enhanced string monitoring analytics
- Wireless sensor gateway platform

2026

- Single & dual-axis solar tracker controller
- Robotic solar panel cleaning system
- Cloud SCADA platform v2.0

2027

- UAV-based solar & site inspection
- BESS integration & monitoring platform
- IIoT edge intelligence module

2028

- Autonomous distributed weather network
- Hydrogen energy monitoring system
- Defence-grade secure telemetry

Active research programmes shaping the next decade.

Inside the DSIR-approved R&D centre - the laboratories, the active development programmes and the philosophy of indigenous engineering that drives SERTEL's product roadmap

R&D INFRASTRUCTURE

Embedded Hardware Lab

Mixed-signal oscilloscopes, logic analysers, signal generators, EMI/EMC pre-compliance bench, environmental chambers (-40°C to +85°C) and JTAG/SWD debugging stations for high-density board bring-up.

RF, Wireless & GNSS Lab

Vector network analyser, spectrum analysers, RFshielded enclosure for Zigbee/LoRa/cellular validation and a GNSS simulator for receiver performance characterisation under controlled satellite conditions.

Power Electronics & HIL Lab

Programmable DC sources up to 1200V, electronic loads, bidirectional battery emulators for BMS validation, isolation testers, surge generators and hardware-in-theloop simulation rigs for safety-critical firmware.

Software & Firmware Studio

CI/CD pipeline for firmware builds, SCADA integration test bed, version-controlled release management and NABL-traceable calibration metrology - every product leaves with a verifiable certificate.

FLAGSHIP ACTIVE PROGRAMMES

PROGRAMME A . METEOROLOGY

Next-Generation Radiosonde Platform

GNSS-based wind tracking, sub-percent humidity accuracy and sub-100g payload - targeted for IMD upper-air network modernisation and international meteorological tenders.

PROGRAMME B . RENEWABLE & STORAGE

AI String Analytics & BESS Platform

Edge-ML anomaly and soiling detection paired with a modular BMS / energy management controller for grid-tied storage across Li-ion, LFP and emerging chemistries

PROGRAMME C . TIME SYNCHRONISATION

PTP Grandmaster & IEC 61850 Edition 2

Precision Time Protocol with sub-microsecond accuracy for digital-substation deployment, full IEC 61850-9-3 powerutility profile compliance and redundancy.

PROGRAMME D . DEFENCE & ROBOTICS

Ruggedised Telemetry & Solar Cleaning

MIL-grade enclosures, anti-jam GNSS and secure telemetryunder iDEX, plus waterless robotic panel-cleaning units for utility-scale arrays in arid climates.

R&D PHILOSOPHY

SERTEL develops technology indigenously - not by re-badging imported sub-assemblies. Every product begins as a schematic on our engineers' workstations, is prototyped in our own labs, qualified in our own environmental cells and released under our own quality framework. This depth of ownership lets us iterate quickly, customise without compromise, and stand behind our products for the full 15–20 year operational life mission-critical industrial deployments demand.

35+

IN - HOUSE R&D ENGINEERS

12+

NEW PRODUCTS PER YEAR

Engineered Solutions Across Six Product Families

A portfolio developed over three decades of focused product engineering - organised into six logical families enabling Sertel to serve as a comprehensive single-source supplier.

01 Time Synchronisation & Display

GPS time servers, NTP/IRIG-B/PTP systems, slave clocks, frequency displays and ABT systems for utilities and substations.

02 Renewable / Solar Solutions

SMB (wired/FO/wireless), SCB, string monitoring card, diode box and DCDB - compatible with all major SCADA platforms.

03 Meteorological & Environmental

UASS, radiosonde, pilot & ozone sondes, ground stations, AWS, weather sensors and cloud monitoring.

04 Process Measurement & Instrumentation

Radar & guided-wave radar, ultrasonic level and clamp-on flow meters, high-temperature camer-as, furnace probes, temperature transmitters, and battery monitoring.

05 Signal Conditioning, Isolators & Converters

Signal isolators, loop-powered, RS-485, FVC, protocol converters and FO/RF converters for plants and substations.

06 Software & Cloud Solutions

Modbus software, SCADA, remote cloud monitoring and the data logger hardware/software suite for industrial sites.



Complete catalogue, organised by solution family.

Time Synchronisation & Display Solutions

16 PRODUCTS

IEEE 1588 (PTP), IRIG-B, NTP and GNSS support with redundant architectures for mission-critical installations

- GPS Time Server (NTP)
- GPS Time Synchronization System
- NTP Output DIN Rail GPS Time Server
- Redundant GPS Receiver System
- GNSS Receiver
- Satellite Communication Module
- Repeater (Signal Regeneration)
- Navigation Display (Nautical Chart)
- 100 MM Standalone Slave Clock
- 100 MM NTP Slave Clock
- 50 MM Slave Clock
- GPS Synchronized LED Outdoor Clock
- Master-Slave Digital Clock
- 4-Digit Frequency Display System
- ABT Display System
- Display Management System

Renewable / Solar Solutions

07 PRODUCTS

String-level monitoring, DC combining, blocking-diode protection and DC distribution - deployed across SECI and MNRE projects.

- String Monitoring Box (SMB) - Wired
- String Monitoring Box (SMB) - Fibre Optic
- String Monitoring Box (SMB) - Wireless
- String Combiner Box (SCB)
- String Monitoring Card (OEM/Retrofit)
- Diode Box (Blocking Diode Protection)
- DC Distribution Box (DCDB)

Meteorological & Environmental Systems

11 PRODUCTS

Complete upper-air-sounding and ground-based weather monitoring supplied to IMD, ISRO and research institutes.

- Radio Sonde (Standard & Next-Gen)
- Pilot Sonde (Wind Profiling)
- Ozone Sonde (Atmospheric Chemistry)
- Upper Air Sounding System (UASS)
- Ground Receiving Station
- Balloon Filling Unit
- Automated Weather Station (AWS)
- Tipping-Bucket Rainfall Station
- Humidity Sensors
- Temperature Sensor with MODBUS
- Cloud-Based Weather Monitoring

Process Monitoring · Level & Flow · Signal Conditioning · Software

15 PRODUCTS

Process cameras, vibration sensors, furnace probes, DP/temp transmitters, BMS · radar & ultrasonic level & flow · signal isolators, FVC, protocol & FO/RF converters · Modbus, SCADA, cloud monitoring & data logger.

- Thermal Imager / High-Temp Camera
- Vibration Sensors
- Furnace Probe - Axial
- Temperature Transmitter
- Differential Pressure Transmitter
- Battery Monitoring System
- Frequency-to-Voltage Converter
- Modbus Software · SCADA · Cloud · Data Logger
- Radar Level Transmitter
- Guided Wave Radar (GWR)
- Ultrasonic Level Transmitter
- Ultrasonic Flow Meter - Wall & Handheld
- Signal & Loop-Powered Isolators
- RS-485 / Fibre / RF Converters
- Protocol Gateway / FVC

International alliances and government accreditations.

Strategic partnerships and formal certifications validate SERTEL's technical standards against internationally recognised benchmarks.

INTERNATIONAL OEM SUPPLY

Industrial Partners - Asia & Middle East

Long-standing OEM relationships supplying alarm annunciators, time-sync systems and signal-conditioning products under partner brands across multiple Asian and Middle Eastern markets - manufactured to international standards in Chennai.

INDIGENOUS TECHNOLOGY

High-Temperature Industrial Cameras

In-house developed high-temperature thermal-imaging products for cement kilns, steel blast-furnaces, glass-tank furnaces and power-plant boilers - operational performance validated in deployments above 1,400°C.

GOVT. OF INDIA

DSIR - Min. of Science & Technology

R&D centre formally approved as a recognised scientific research establishment - affirming the quality, rigour and national significance of Sertel's innovation activities.

STANDARDS BODIES

BIS · IEC · IEEE · CE

Compliance with IEC 61724 (solar PV monitoring), IEEE 1588 (PTP), IEC 61850 (substation automation), IEC 60529 (IP protection ratings) and CE marking for European markets.

GOVERNMENT & INSTITUTIONAL APPROVALS

ISO	DSIR	CE	IEC	MNRE	BIS
CERTIFIED	APPROVED	COMPLIANT	STANDARDS	EMPANELLED	COMPLIANT

APPROVED VENDOR STATUS

India Meteorological Department	ISRO	DRDO	HAL
BHEL	NTPC	IOC	SECI
MNRE	NPCIL	PGCIL	ECIL

PARTNERSHIP MODEL

Long-standing supply relationships with NTPC, BHEL, ISRO, HAL, IOC and defence establishments reflect decades of consistent product quality and reliable supply performance.

15+
YEARS
OEM PARTNERSHIP

Certifications and Government Accreditations

International certifications and government accreditations validate SERTEL's commitment to quality and compliance. They reinforce our reputation for delivering reliable, world-class engineering solutions.



CERTIFICATE OF REGISTRATION

Certificate No. 764550

The Environmental Management Systems of

SERTEL ELECTRONICS PVT. LTD.

No. 377, 1st Cross Street, Nehru Nagar, Old Mahabalipuram Road, Perungudi, Chennai - 600 096, Tamil Nadu, India

has been audited and found to conform to

ISO 14001:2015

for the following activities

Design and Development, Manufacturing, Testing, Installation and Servicing of Global Positioning System (GPS) and Satellite Based Time Management System, Temperature Controllers, Recorders and Sensors, Variable Frequency Drive (VFD) Panels, Alarm Annunciator, Protocol Communication, Signal Multiplier and Isolators, Furnace Camera Systems, Weather Monitoring System Automatic Weather Stations Upper Air Sounding Systems - Radiosonde, Pilotsonde and Ground Receiving Systems, String Combiner Box, String Monitoring Box, String Monitoring Card, Data Logger and Weather Monitoring System

Date of Issue:	Date of Expiry:	Initial Certification:
22 April 2025	21 May 2028	24 May 2016

Guardian Independent Certification Ltd

Registered in England
114 St Martin's Lane Covent Garden London C2N 4BE

Accredited by Member of the IAF MLA

ISO 14001:2015



CERTIFICATE OF REGISTRATION

Certificate No. 689960

The Quality Management Systems of

SERTEL ELECTRONICS PVT. LTD.

No. 377, 1st Cross Street, Nehru Nagar, Old Mahabalipuram Road, Perungudi, Chennai - 600 096, Tamil Nadu, India

has been audited and found to conform to

ISO 9001:2015

for the following activities

Design and Development, Manufacturing, Testing, Installation and Servicing of Global Positioning System (GPS) and Satellite Based Time Management System, Temperature Controllers, Recorders and Sensors, Variable Frequency Drive (VFD) Panels, Alarm Annunciator, Protocol Communication, Signal Multiplier and Isolators, Furnace Camera Systems, Weather Monitoring System Automatic Weather Stations Upper Air Sounding Systems - Radiosonde, Pilotsonde and Ground Receiving Systems, String Combiner Box, String Monitoring Box, String Monitoring Card, Data Logger and Weather Monitoring System

Date of Issue:	Date of Expiry:	Initial Certification:
09 April 2025	07 April 2028	11 April 2013

Guardian Independent Certification Ltd

Registered in England
114 St Martin's Lane Covent Garden London C2N 4BE

Accredited by Member of the IAF MLA

ISO 9001:2015



CERTIFICATE OF REGISTRATION

Certificate No. 689695

The Occupational Health and Safety Management Systems of

SERTEL ELECTRONICS PVT. LTD.

No. 377, 1st Cross Street, Nehru Nagar, Old Mahabalipuram Road, Perungudi, Chennai - 600 096, Tamil Nadu, India

has been audited and found to conform to

ISO 45001:2018

for the following activities

Design and Development, Manufacturing, Testing, Installation and Servicing of Global Positioning System (GPS) and Satellite Based Time Management System, Temperature Controllers, Recorders and Sensors, Variable Frequency Drive (VFD) Panels, Alarm Annunciator, Protocol Communication, Signal Multiplier and Isolators, Furnace Camera Systems, Weather Monitoring System Automatic Weather Stations Upper Air Sounding Systems - Radiosonde, Pilotsonde and Ground Receiving Systems, String Combiner Box, String Monitoring Box, String Monitoring Card, Data Logger and Weather Monitoring System

Date of Issue:	Date of Expiry:	Initial Certification:
15 April 2025	14 April 2028	18 April 2013

Guardian Independent Certification Ltd

Registered in England
114 St Martin's Lane Covent Garden London C2N 4BE

Accredited by Member of the IAF MLA

ISO 45001:2018



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Website : http://www.dsir.gov.in
(आईएसओ 9001:2008 प्रमाणित विभाग)
(AN ISO 9001:2008 CERTIFIED DEPARTMENT)

भारत सरकार
विज्ञान और प्रौद्योगिकी मंत्रालय
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F. No. TU/IV-RD/3535/2026

Dated: 8th June, 2026

M/s. Sertel Electronics Pvt. Ltd.
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Chennai - 600 096
(Tamil Nadu)

Subject: Registration of Research Institution, other than a Hospital, for the purpose of availing Customs duty exemption in terms of Government Notifications No. 51/96 - Customs dated 23.07.1996; No. 24/2007 Customs dated 1.03.2007; No. 43/2017 - Customs dated 30.06.2017; No. 42/2022 - Customs dated 13.07.2022; No. 07/2024 - Customs dated 29.01.2024; No. 38/2024 - Customs dated 23.07.2024, No. 45/2025 - Customs dated 24.10.2025 as applicable and all notification as amended from time to time.

CERTIFICATE OF REGISTRATION

This is to certify that the in-house R&D unit(s) of M/s. Sertel Electronics Pvt. Ltd. located at No. 377, 2nd Floor, Nehru Nagar, 1st Cross Street, OMR, Perungudi, Chennai (Tamil Nadu) is/are registered with the Department of Scientific & Industrial Research (DSIR) for purpose of availing customs duty exemption in terms of Government Notification No. 51/96 - Customs dated 23.07.1996; No. 24/2007 Customs dated 1.03.2007; No. 43/2017 - Customs dated 30.06.2017; No. 42/2022 - Customs dated 13.07.2022; No. 07/2024 - Customs dated 29.01.2024; No. 38/2024 - Customs dated 23.07.2024, No. 45/2025 - Customs dated 24.10.2025 as applicable and all notification as amended from time to time. The registration is subject to terms and conditions mentioned overleaf.

This registration is valid upto 31.03.2029.

(Vinay Kumar)
Scientist - 'G'

DSIR Recognition for In-House R&D Unit

The voice of our customers - performance validated in the field.

SERTEL's most meaningful endorsements come from clients who depend on our products in mission-critical applications every day. Formal performance letters are available on request.

POWER GENERATION . SUBSTATION TIMING

SERTEL's GPS time synchronisation systems have been operating in our substation for over seven years without a single unplanned failure. The precision and stability meet all our SOE recording and relay coordination requirements - and Sertel's technical support team responded to every query promptly with genuine engineering depth.

Senior Engineer

Power Plant Operations

CEMENT . HIGH - TEMP PROCESS MONITORING

The high-temperature industrial cameras from Sertel have fundamentally changed how we monitor and manage our kiln process. The system has been operating continuously in a 1,400°C environment for three years with minimal maintenance - and the engineering team provided excellent commissioning support.

Head of Process Optimisation

Major Cement Plant

RENEWABLE ENERGY . SOLAR O&M

SERTEL's string monitoring solutions provide realtime granular visibility into our solar farm at a level of detail that genuinely drives better O&M decision-making. Integration with our SCADA platform was straightforward, and we have standardised on Sertel for new projects in our portfolio

O&M Manager

Utility-Scale Solar Portfolio

METEOROLOGY . UPPER AIR SOUNDING

SERTEL has been our trusted supplier for upper air sounding system components for over a decade. The radiosonde and ground station systems deliver the atmospheric data quality our operational forecasting demands - consistent accuracy, reliable telemetry and software that integrates smoothly with our existing systems.

Chief Meteorologist

Regional Weather Forecasting Centre

OIL & GAS . LEVEL & SIGNAL

We evaluated SERTEL's radar level transmitters and signal isolators against several international brands during our instrumentation upgrade - and selected Sertel based on technical performance, pricing, and the confidence that comes from dealing with a manufacturer rather than a trader.

Instrumentation Engineer

Refinery Operations

DEFENCE . GPS TIMING & MONITORING

SERTEL has delivered GPS time management and process monitoring systems that have consistently met the demanding accuracy, reliability and security requirements of our environment. Their willingness to customise - including non-standard interfaces and environmental specs - has been particularly valuable.

Technical Director

Defence Manufacturing Establishment

A structured lifecycle partnership - Standard, AMC and CSA tiers.

For clients in power, process, solar and critical infrastructure, the long-term operational performance of installed equipment is at least as important as initial specification. Service operations are headquartered in Chennai, with field engineers deployed across India's major industrial centres.

TIER 01 . STANDARD

Standard Support

- ✓ 12-Month Product Warranty from commissioning, covering manufacturing & workmanship
- ✓ Email & Phone Helpdesk - response within one business day for standard queries
- ✓ Remote Diagnostics Assistance where comms infrastructure permits
- ✓ Firmware Update Notifications for the registered installed base
- ✓ Documentation & Manuals Portal - manuals, app notes, calibration procedures

TIER 02 . AMC

Annual Maintenance Contract

- ✓ Extended coverage postwarranty - parts and labour for normal operating use
- ✓ Two preventive maintenance visits per year - inspection, cleaning, parameter verification
- ✓ 48-Hour Site Response SLA for operational-impact failures
- ✓ Genuine Sertel spare parts at preferential AMC pricing & priority allocation
- ✓ Annual calibration & recertification with traceable certificates



From enquiry to commissioning - one accountable workflow.

Every Sertel order moves through a single ISO-aligned workflow, from the first application engineering conversation to on-site commissioning and operator training. Each stage has defined quality gates, controlled documentation and clear ownership, ensuring consistent quality, full traceability and on-time delivery for every project.



Customer Enquiry & Requirements

Sales and application engineering review the operational context, technical & commercial parameters.



Technical Review & Solution Design

Application engineering confirms product selection, configuration and any required customisation.



Design & Engineering

Configuration to order; full design cycle for custom items, with controlled documentation.



Quotation & Order

Detailed techno-commercial proposal; PO reviewed and released to production planning.



Procurement & Production Planning

BOM procurement against AVL; production scheduled with quality gates and buffers.



Production & Assembly

Documented work instructions, in-process checks, qualified production staff and tooling.



Dispatch · Commissioning · Handover

Packaging, dispatch documentation, on-site commissioning and operator training.



Testing & Quality Control

Functional verification, ESS, protocol & safety checks; FAT available on request.

Talk to an engineer. We’re built to listen.

From specification queries to large multi-product programmes, our application engineers are available to discuss requirements, share datasheets, arrange site visits and draft tailored techno-commercial proposals.

GLOBAL HEADQUARTERS

India · Chennai

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SUPPORT

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Service & AMC Desk
After-sales, AMC, calibration & spares

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