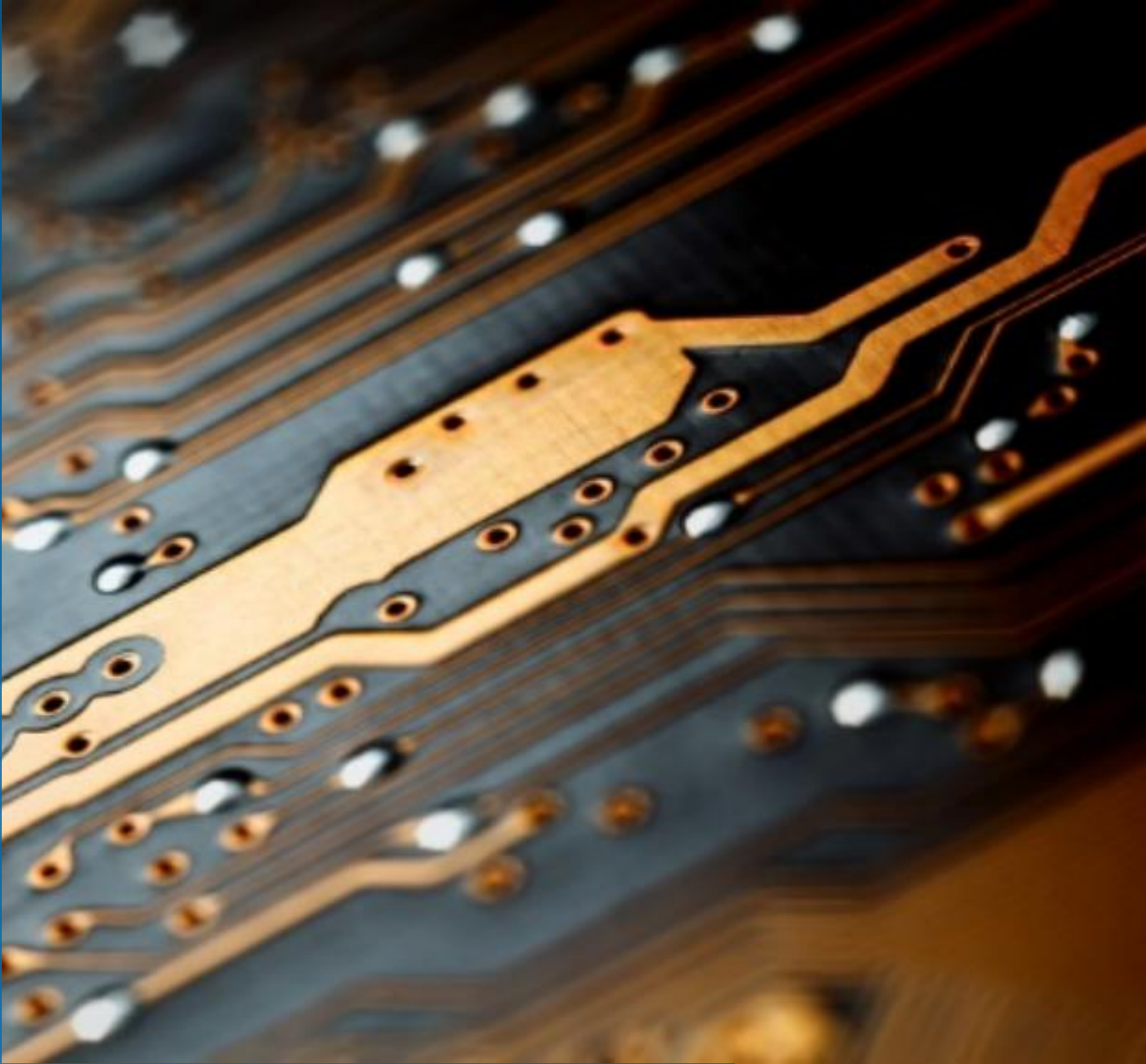




Corporate Overview





We're a technology-focused engineering and design company engaged in turnkey electronics manufacturing services. We also provide RFID and custom magnetics solutions.

Key Highlights



40+ yrs
Group Legacy

21
SMT Lines

720k sq.ft
Total Plant Area

11
Facilities

270+
Customers

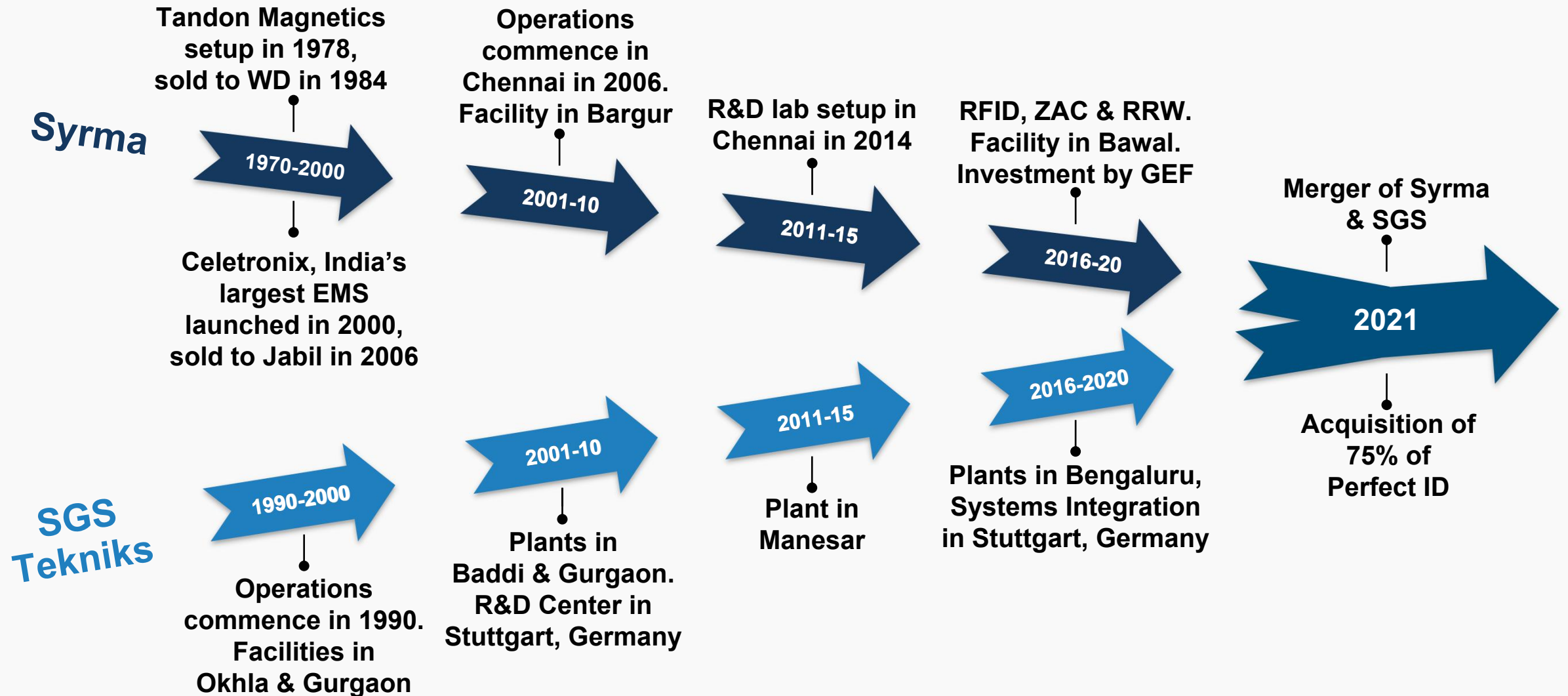
600+ Mn.
OEM units shipped
in last decade

20+
Exporting
Countries

4000+
Employees

40+
Start-up Investments

Our Journey



Syрма SGS Technology listed on both the National Stock Exchange (NSE) and Bombay Stock Exchange (BSE) on August 26, 2022.

Vision & Guiding Principles

Our vision is to build an organization around entrepreneurial freedom and unleash the potential of our people to innovate and define the future of ESDM. We'll inspire and lead by being the catalyst for economic and social upliftment through enterprise.



**People
First**

**Entrepreneurial
Accountability**

**Customer Centric
Value Creation**

**Iterative
Innovation**

Financial Revenue (INR in Million)



Electronic Design Services



PCB Assembly



Box Products



Tester Development



Stuttgart,
Germany



Consumer Electronics

Automotive + EV

Industrial Electronics

Sensor Solutions

Smart Devices

IoT-Based Solutions

Gurgaon,
India



Chennai,
India



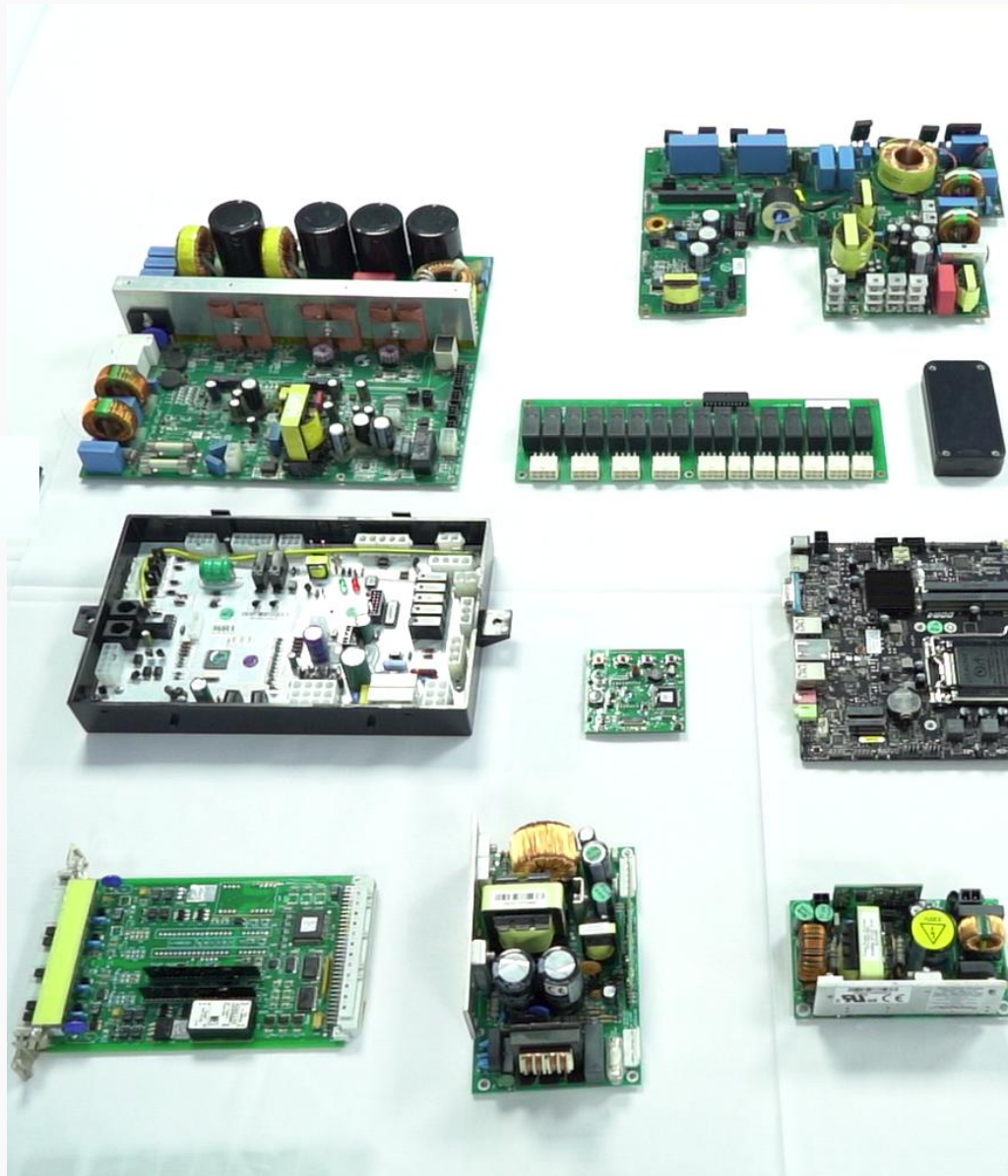
Capabilities

- System Architecture
- Electrical Simulation
- Component Selection
- Schematic & Layout Design
- Software & Firmware
- Mechanical Design
- DFM, Fixture & Test Jig Development
- Product Testing & Certification
- Re-Engineering, Reverse Engineering & Value Engineering as Ongoing Exercise

Design Solutions

- Power Electronics
- Water Purifiers & Air Conditioners
- Motor Control (BLDC/Induction)
- Air Purifiers & Vacuum Cleaners
- Electrical Vehicles (Control, ECU)
- Power Adapters, SMPS, LED Lighting
- Battery Management
- Heating & Cleaning Equipment

PCB Assembly



IT

Motherboards, Memory Modules, Hard Disks, SSD, Flash Drives

Industrial

Energy Meters, Washing Systems, LED Drivers, POS Printers, POS Machines

Automotive + EV

Head & Tail Lamps, Clusters, Fuel Dispensing Controllers, EV—BCU, ECU, BMS

Consumer

AC, BLDC Fans, Controller Boards, Water Purifiers, Mixer Grinders, Washing Systems, Air Purifiers

Telecom

Optical Networking Equipment, Controllers, Relays, Power Supplies, Modems, Hybrid STB, Routers, Repeater PCBAs

Railways

CPU Boards, DO Generics, WBI Boards, Electronic Interlocking Systems

Power

Power Supplies, Automatic Voltage Control & Hybrid Controller PCBAs

Medical

X-Ray Controllers, WBI Boards, Glaucoma Detectors, Stretchers, Smart Canes, CPAP Devices

Defense

Defense Communications, Storage & Processing Equipment PCBAs

Box Products



GPON



Hybrid Set-Top Box



Complex Integrations



Wearables



POS Printer



Railway Interlocking System



Power Supply



CPAP Device (Continuous Positive Airway Pressure)



Home Automation Controller



Smart Water Meter



Glaucoma Detection



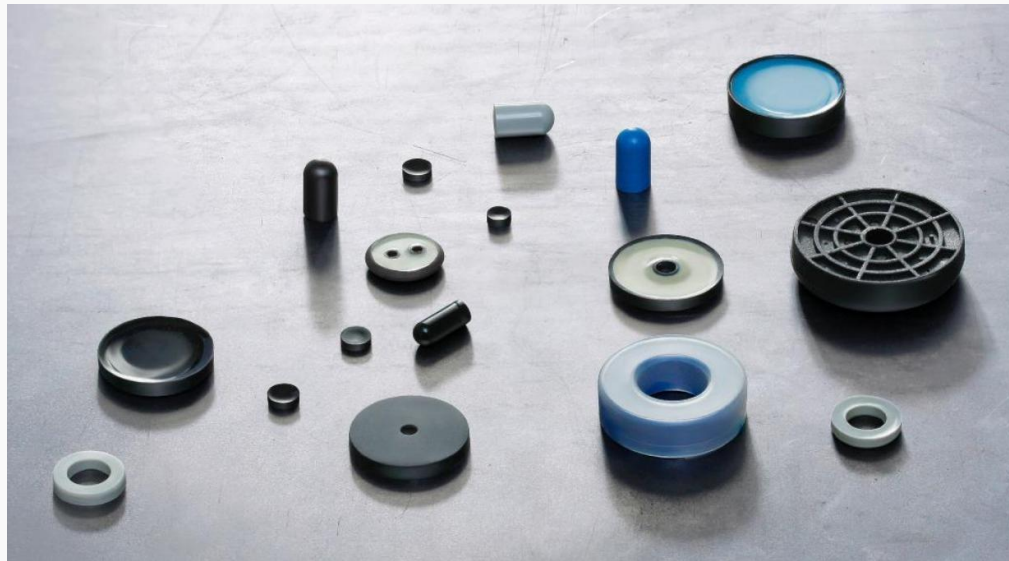
Solar Controller

In-House Tester Development Services



- Customized Automatic Test Equipment based on specification
- Test development skill sets include Hardware, Software and Firmware development for Microcontroller, FPGA and DSP based products
- Tester developed for wide range of products in Telecom, Automotive, RF, Consumer, and Industrial sectors

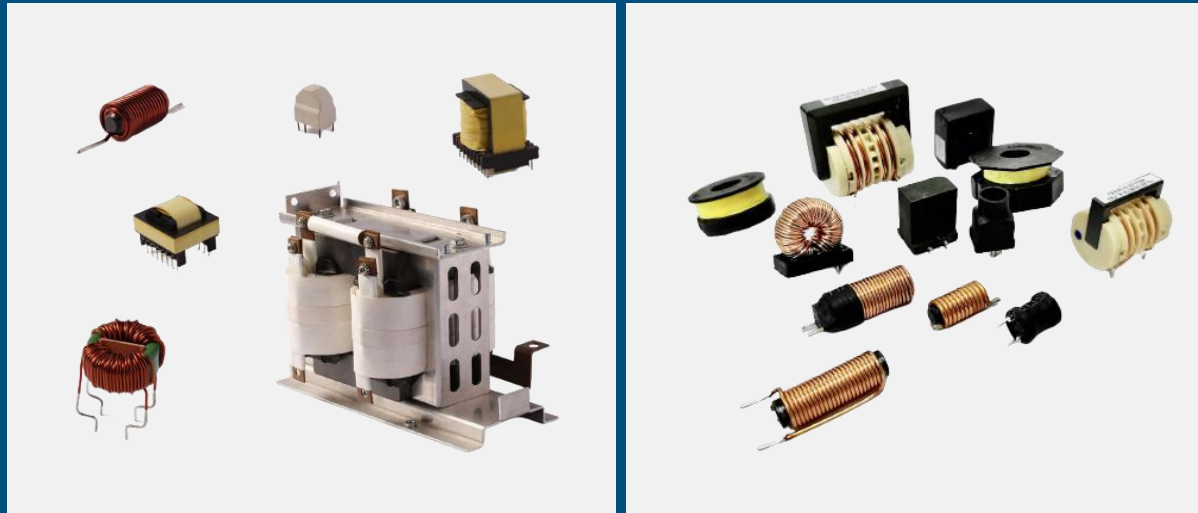
RFID (Custom RFID solutions, optimized for IoT applications)



- Designs, engineers, and manufactures industry standard tags & inlays in different form factors for applications in LF (ISO 11784), HF (ISO 14443 / ISO 15693), UHF (EPC Gen 2) and Active RFID (433 MHz / 2.4 GHz)
- Turn-Key solutions for different RFID implementations with Tags, Readers and Customized Software
- Provides reliable, automated asset management and transaction systems to reduce expenditure and waste.
- Supports complex IoT implementation by empowering assets to communicate with each other and reduce complexities inherent to manual application.
- Integrates with smart devices, cattle, vehicle, furniture, machinery, computers, supplies, and more increased reliable data accuracy.
- Extensive range of harsh environment tags and miniature tags as small as 3mm
- More than 50 off-the-shelf products, including tag, label, wristband, injectible, molded, glass and other form factors



Magnetics



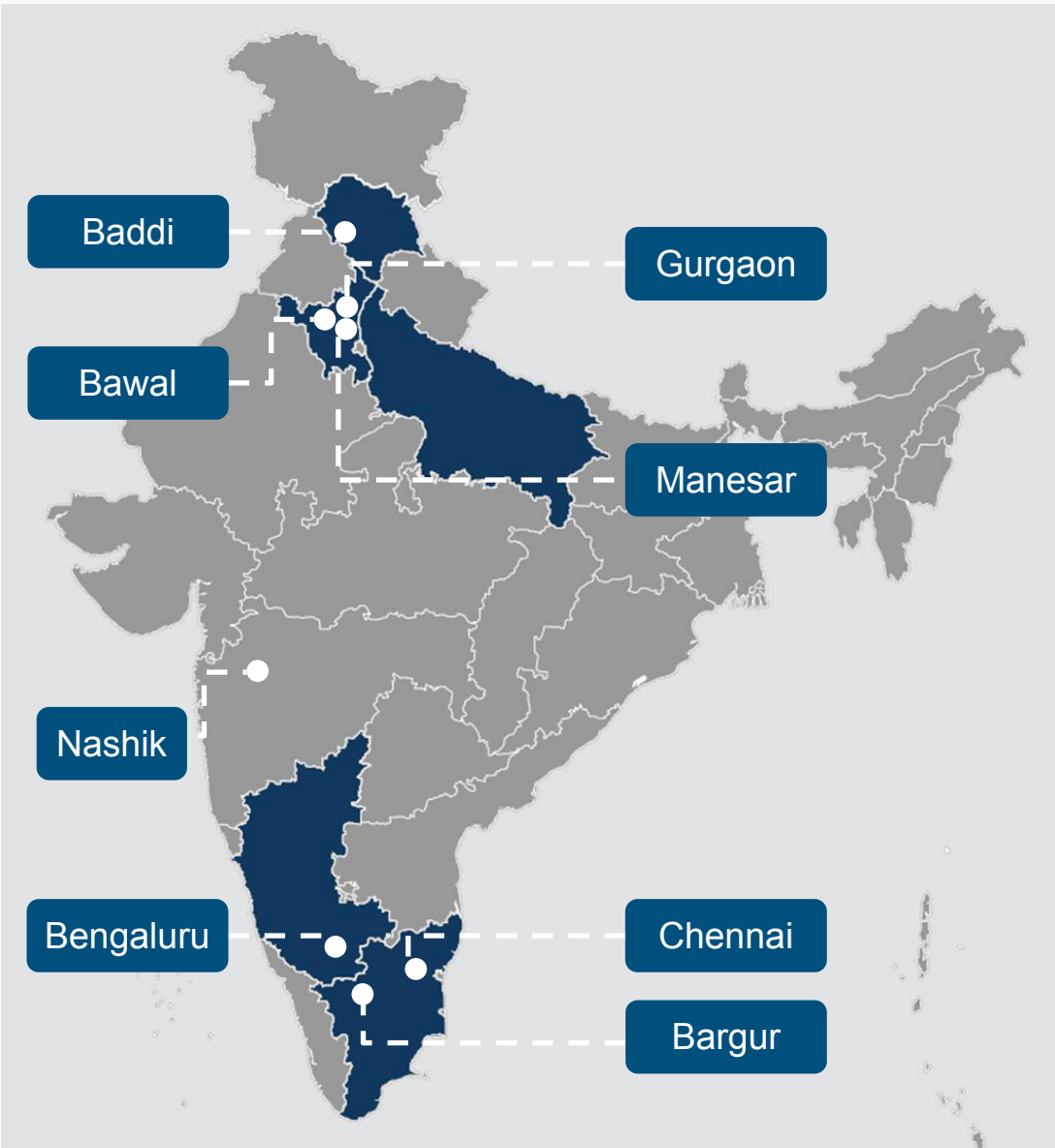
OEM manufacturer
of high-frequency
transformers, chokes,
coils, and inductors

Electro-Mechanicals



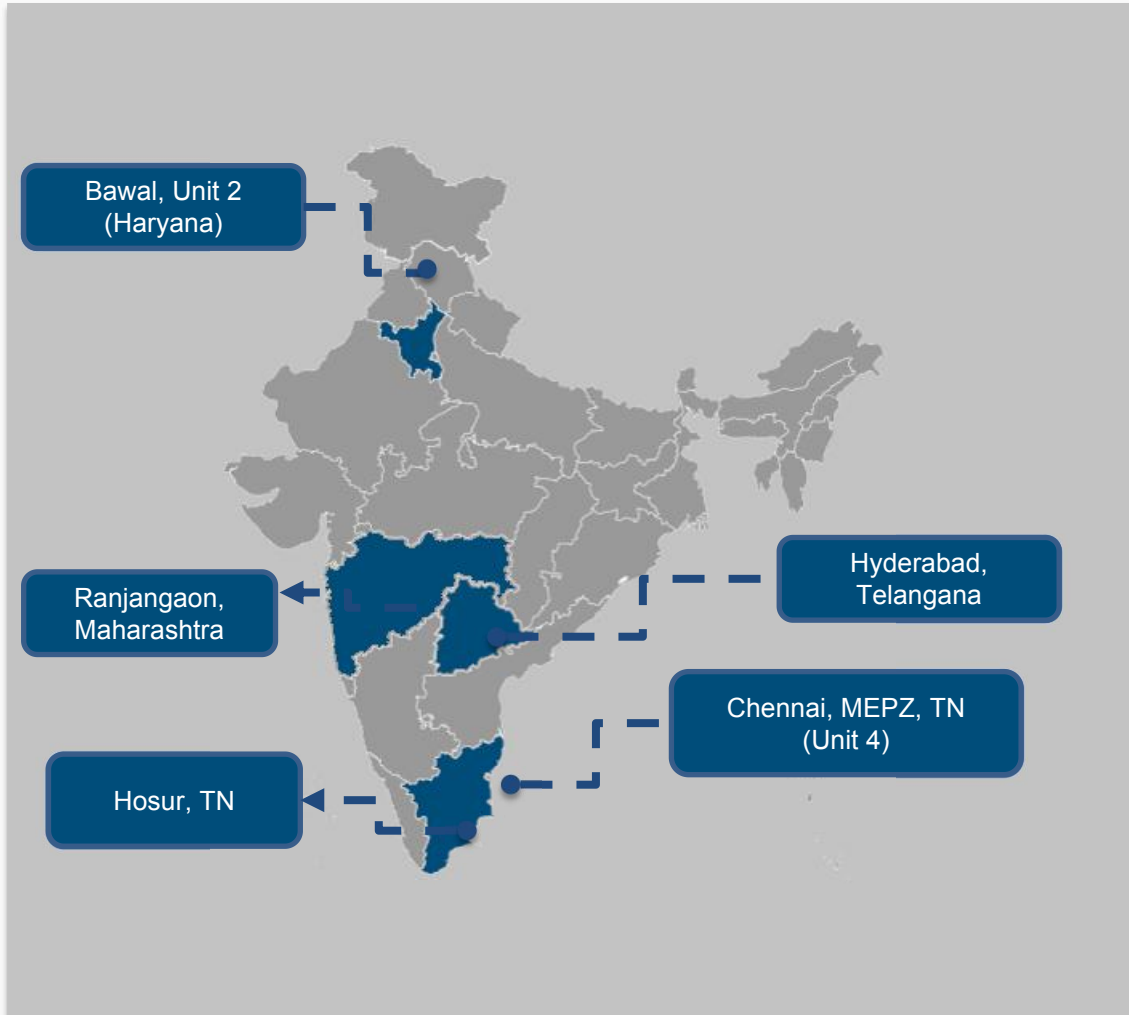
Dedicated sheet metal
manufacturing to
support turnkey
manufacturing

Manufacturing Locations



Manesar Haryana (Unit 1)	94,000 sq. ft.; Operations – EMS (6 SMT Lines), Box Build Facility
Manesar Haryana (Unit 2)	1,50,000 sq. ft.; Operations – EMS (3 SMT Lines), Box Build Facility
Chennai, Tamil Nadu Unit 1, 2 & 3	2,31,000 sq. ft.; Operations – EMS (5 SMT Lines), RFID & Magnetics
Gurgaon Haryana	48,000 sq. ft.; Operations – EMS (2 SMT Lines), Box Build Facility
Bawal Haryana	26,000 sq. ft.; Operations – EMS (2 SMT Lines), Box Build Facility
Bengaluru Karnataka	80,000 sq. ft.; Operations – EMS (3 SMT Lines), Box Build Facility
Baddi, Himachal Unit 1 & 2	32,500 sq. ft.; Operations – System Integration & Box Build Facility (SMT line by Dec '22)
Bargur Tamil Nadu	30,000 sq. ft.; Operations – RFID & Magnetics
Nashik, Maharastra	26,000 sq. ft.; Operations – Electro mechanicals

Expansion Plan



Chennai (Unit 4)

- SEZ unit; Plot Area – 4.11 Acres; Build-up Area – 1,33,000 Sq.ft.
- Operations – EMS (PCBA & Box Build); Readiness by Dec' 23

Expansions under consideration:

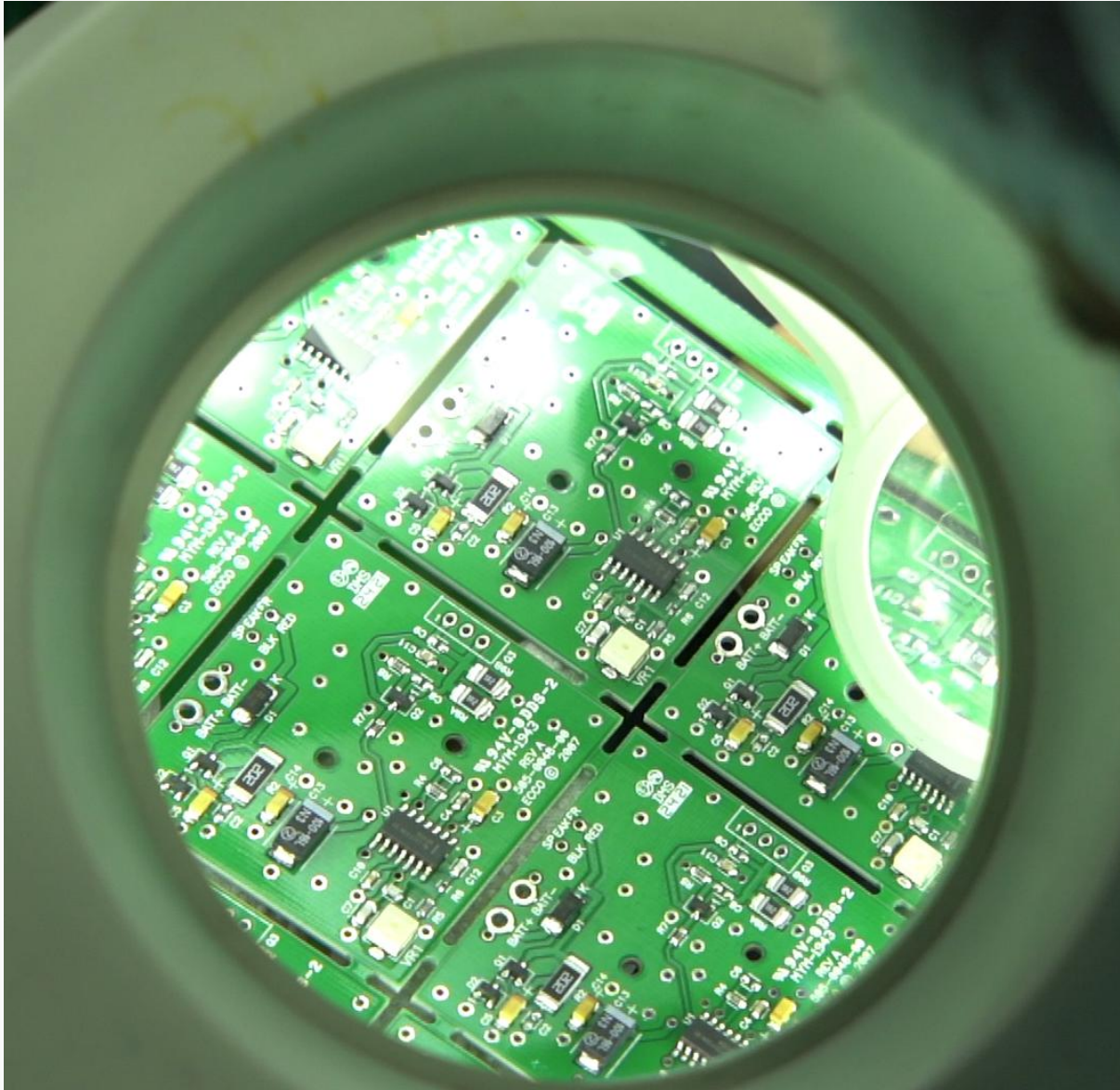
- Hosur, Tamil Nadu : EMS (PCBA & Box Build)
- Ranjangaon, Maharashtra (or) Hyderabad, Telangana: EMS (PCBA & Box Build)

*Over 6-8 SMT lines will be added in next 1 year period

Manufacturing Capabilities



- 21 SMT lines – Fuji, Yamaha, ASM
- Fine pitch placement up to 12 mil
- Components – 01005, BGA, uBGA, 55 mm sq CSP
- ± 25 micron placement accuracy with 3-Sigma
- Board Size: 534 x 610 mm
- Board Types: Rigid, Flex, Ceramic
- SMT assembly in class 10K & dust free zone
- N2 enabled reflow – JT, RW, Vitronic, Centuring
- Wave Soldering – Tamura, Dektec
- Fully Automatic Potting for electronic assemblies
- Automatic Conformal Coating
- SPI – Cyber Optics & KY 3020T
- 3D & 2D AOI – Cyber Optics SQ3000, Agilent & Viscom 3088AV3D X-ray
- In-Circuit Testing & MDA – Kyoritsu, SPEA (Italy), Tescon & TRI,
- FCT on LABVIEW SOFTWARE for every product
- Post-Soldering AOI – TRI
- Automatic Pin Insertion Machine
- DFM analysis and data generation for mass SMT machine programming using Mentor Graphics software tool.
- Barcod based MES traceability system



ISO Certifications

- AS 9100D
- ISO 9001
- ISO 27000
- ISO 13485
- ISO 14001
- IATF 16949
- ISO 45001

Other Certifications

- ANSI ESD 20:20 – Electric Discharge Control
- IEC 61340-5-1 – Electric Discharge Control
- Authorized Economic Operator T2 Certificate (Green Channel for Export Import Custom Clearance)
- Awarded – Two Star Export House

Awards & Recognition



- **The Best Techno Visionary - Industry”** - FY22 by IESA
- **Electronics Company of the Year”** - FY22 by ELCINA-EFY
- **1st prize in Business Excellence** - FY21 by ELCINA-EFY in SME category
- **Business Excellence Award** - FY21 by ELCINA-EFY in large category
- **Excellence in Quality** - FY21 by ELCINA-EFY in large category
- **Outstanding Achievements in Exports** - FY21 by ELCINA-EFY in large category
- **SME Award** - ELCINA-EFY for FY21
- **1st Prize in "R&D“** - ELCINA for FY20 in large category

Manufacturing Facilities & Capabilities

Bengaluru, Karnataka

Unit 1, MEPZ, Chennai

Unit 2, MEPZ, Chennai




Unit 3, MEPZ, Chennai

EMS Facilities
(PCBA + Box Build)



Year of Establishment	2016	2005	2010	2022
Area (Sq. Feet)	80,000 (100,000 by June '23)	100,000	30,000	101,000
Products Manufactured	PCBA & Box Build	RFID	PCBA	PCBA, Box Build & Wiring Harness
Lines	3 SMT Lines	RFID – 6 semi automatic lines; 2 automated lines Magnetics – 1 line	4 SMT Lines	1 SMT Line 1 wiring harness line – Cutting, Stripping & crimping
Capacity	400K CPH	RFID – 550k /day Magnetics – 30K / month	391K CPH	PCBA - 95K CPH Wiring Harness – 2500 pieces / hr
Domains	Automotive, Consumer, Communication, IoT, Railways, Industrial, Others	Industrial, Consumer electronics, Textile	Industrial, Medical, Energy, Railways, IT Hardware	Automotive, Industrial, Medical, Energy, Railways, IT Hardware
Key Equipment for EMS	<ul style="list-style-type: none"> High speed SMT line – Fuji, ASM Solder paste inspection – Cyberoptics Reflow oven – Vitronics AOI – Cybertronics Wave machine – TMPL Axial & radial machines Automatic outing machine Conformal coating – PVA Testing – X-ray, ICT 	<ul style="list-style-type: none"> Automatic winding & chip soldering – YMJ Fully Automated line – Marcelli Winding & Crimping machine – GE 	<ul style="list-style-type: none"> Multiple high speed Fuji SMT lines Koh Young solder paste inspection 3D AOI machines – Koh Young, Vi, ViTrox Reflow oven – Heller, speed line Dektec wave soldering Automatic routing machine Conformal coating 3D X-ray UV curing 	<ul style="list-style-type: none"> High speed SMT line – Fuji, Yamaha Koh Young solder paste inspection JT reflow oven Automatic Optical Inspection Tamura Wave machine Automatic routing machine Conformal coating Testing – X-ray, ICT, flying probe, Eureka tester UV curing Schleuniger – Cutting, Stripping & crimping

Manufacturing Facilities & Capabilities

	Manesar, Haryana	Gurgaon, Haryana	Bawal, Haryana
EMS Facilities (PCBA + Box Build)			
Year of Establishment	2014	2006	2017
Area (Sq. Feet)	94,000	48,000	30,000
Products Manufactured	PCBA & Box Build	PCBA & Box Build	PCBA
Lines	6 SMT Lines	2 SMT Lines	2 SMT Lines
Capacity	725K CPH	225K CPH	416K CPH
Domains	Automotive, Consumer, Telecom, Defence, Power, Railways, Air & Water Purification, Others	Medical, Industrial, Consumer, Power, Water Purification, Others	Automotive, EV
Key Equipment for EMS	<ul style="list-style-type: none"> • High speed SMT line – Fuji, Yamaha, ASM • Auto PCB loader & unloader • Solder paste inspection – Koh Young, Cyberoptics • Reflow oven – Vitronic, Centuring • AOI – Koh Young, Cyberoptics, TRI • Wave machine – TMPL, Vitronics • Automatic routing machine – GETECH • Conformal coating • X-ray inspection, ICT, MDA • Axial & radial machines 	<ul style="list-style-type: none"> • Multiple high speed Fuji SMT lines • Koh Young solder paste inspection • AOI machines – Koh Young, ViTrox • Reflow oven – Heller, speed line • Dektec wave soldering • Automatic routing machine • Conformal coating • 3D X-ray • UV curing 	<ul style="list-style-type: none"> • Multiple high speed Fuji SMT lines • Automatic PCB loader & unloader • Koh Young solder paste inspection • 3D AOI machines – Koh Young • Reflow ovens – JTV RS800II-N • Wave soldering – JT, RW • Axial & radial insertion machines • Automatic routing machine • Conformal coating • 3D X-ray

Manufacturing Facilities & Capabilities

	Manesar, Haryana (Unit 2)	Baddi, Himachal	Stuttgart, Germany
EMS Facilities (PCBA + Box Build)			
Year of Establishment	2022	2010	2008
Area (Sq. Feet)	1,50,000	32,500	10,000
Products Manufactured	3 SMT Lines PCBA & Box Build	PCBA & Box Build (SMT line by Dec '22)	System Integration (Module/Sub-Module/ Assembly), Repair & Maintenance Service
Domains	Consumer, IT Hardware, Telecom, Others	Industrial, Energy, Consumer, IT Hardware, Others	Industrial, Medical, Automotive, Consumer, Lighting, Others
Key Equipment for EMS	<ul style="list-style-type: none"> • 2 SMT Lines • Box build facility • Provision for adding 6-9 more SMT lines 	<ul style="list-style-type: none"> • 2 wave soldering lines • Box build facility • Dedicated product assembly line for JIT supplies 	<ul style="list-style-type: none"> • System integration • EMC-testing • Circuit & hardware development • Repair & maintenance service • Software development

Thank you

Syrma SGS Technology Limited

Export

Chennai:

Plot No. B27, Phase II, Zone B,
MEPZ-SEZ, Tambaram,
Chennai – 600045, India
Email: syrma@syrmasgs.com
Website: www.syrmasgs.com

Gurgaon:

A-3, Infocity, Sector-34,
Gurgaon,
Haryana-122001, India
Email: info@sgst.com
Website: www.sgst.com

Domestic

Manesar:

Plot no 22, Sector - 5,
IMT Manesar, Gurgaon,
Haryana – 122050, India
Email: info@sgst.com
Website: www.sgst.com

Bengaluru:

Survey No 27/4 A3,
JR Tech Park, Yarandahalli,
Bommasandra Indl Area,
Phase 4, Bengaluru,
Karnataka – 560099, India
Email: bengaluru@sgst.com
Website: www.sgst.com