



EXPANDING  
OPPORTUNITIES,  
ADDING VALUE.



**INDIA NIPPON ELECTRICALS LIMITED**  
Annual Report 2020-21



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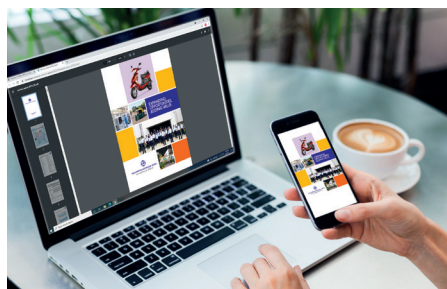
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India Nippon, we are constantly driven to improve on our performance. Aligned with this purpose, we are investing in our capabilities, strengthening our product portfolio and increasing our customer base. Opportunities to grow our aftermarket and export business are also being scouted with intense focus.

Throughout our journey, we have demonstrated the ability to adapt to changing technology and deliver innovation that resonates with customer needs. Today, while we extract more value for our core business of ignition system solutions for internal combustion engines, we are simultaneously preparing ourselves to capitalise on the opportunities presented by tomorrow's technology of electric mobility. Additionally, we are leveraging our technological know-how to tap opportunities in areas beyond the automotive segment.

The opportunities for our business are expanding. As we capitalise on these prospects, it will set the momentum for accelerated growth and deliver greater value for all our stakeholders.



## KNOW US BETTER

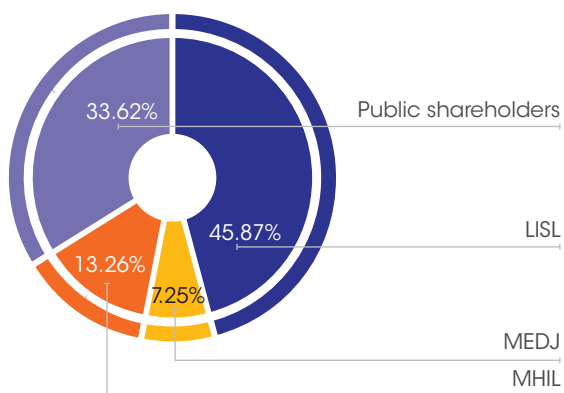
Incorporated in 1984, India Nippon Electricals Limited (INEL) is among the leading manufacturers of electronic ignition systems for the automotive industry, with special focus on two-wheelers, three-wheelers and portable generator sets. We also manufacture sensors, controllers and convertors. The trust we have gained for our products, many of which enjoy market leadership position, inspires us to continually build on our portfolio and capabilities to serve our customers better. Today, in addition to our core offerings for internal combustion engines, we are bringing products for electric vehicles to the market, demonstrating our firm intent to play an important role in this future technology.

Our differentiators of high quality and reliability have enabled us to build a strong customer base in India and a growing overseas clientele. In India, we supply to many leading two-wheeler automotive companies and other internal combustion (IC) engine manufacturers. We are also steadily growing our aftermarket and export business.



### Shareholding pattern

Our Company is a joint venture between Lucas Indian Service Limited (LISL), a wholly-owned subsidiary of Lucas TVS Limited, MAHLE Electric Drives Japan Corporation (MEDJ) and Mahle Holding (India) Private Limited (MHIL).



## Product portfolio

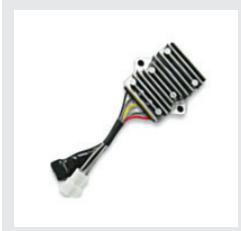
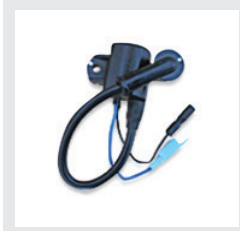
Our core products include flywheel magneto, digital ignitors, sensors, integrated starter generator (ISG), controllers and DC-DC converters, which are aligned with present and future market needs. Our sensors are used across engine and exhaust applications, transmission applications and automotive safety applications. We also offer transistor-controlled ignition (TCI), ignition coil and regulator rectifier products, among others, to support customer needs.

At INEL, new products and solutions are being developed to reimagine tomorrow's growth. Keeping pace with technological disruptions in the automotive sector, we are actively working on increasing our offerings for the electric mobility and non-automotive segment. This demonstrates our steadfast commitment to evolve in tandem with the industry and be future-ready.

### AC Generator



### Electronic products

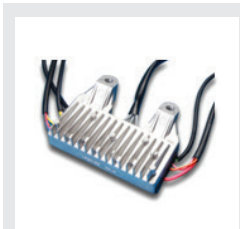


Dual Output Ig.coil

CDI / TCI Unit

Ignition Coil

Regulator Rectifier



EGR Controller

Converter

Integral Unit

Governor Control Unit



## Electronic products



Engine & Exhaust Applications



Throttle Position Sensor (Rotary type)



Throttle Position Sensor (Linear type)



Speed Sensor



Oil Level Sensor



VR Sensor



Transmission Applications



TMAP Sensor



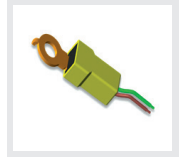
TBAP Sensor



Coolant Temperature Sensor



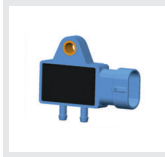
Air Temperature Sensor



Temperature Sensor



Automotive Safety Applications



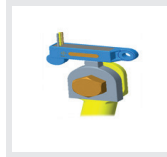
Differential Pressure Sensor



Crankcase Ventilation Sensor



RPAS Ultrasonic Sensor

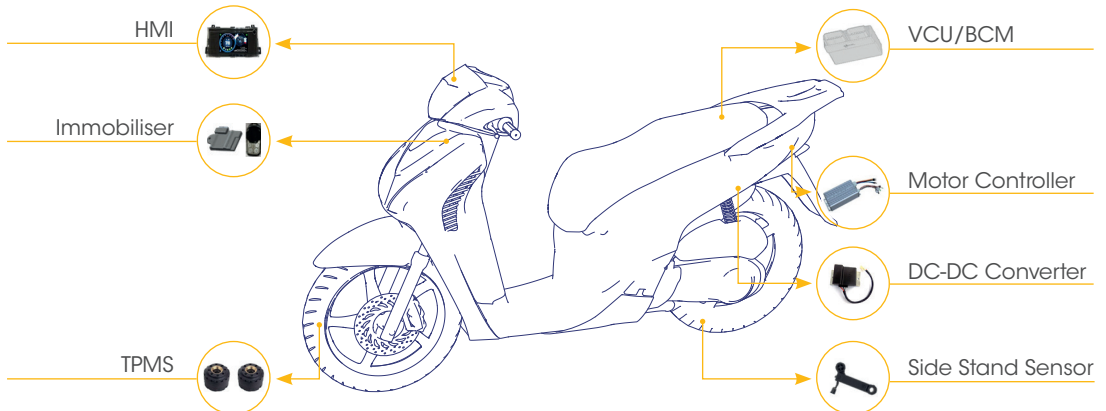


Side Stand Sensor



Tyre Pressure Monitoring Sensor

## EV Portfolio





## Product applications

Two-wheelers



Three-wheelers /  
all-terrain vehicle (ATV)



Portable  
gensets



General-purpose  
engines



## Manufacturing facilities

Our operations are supported by three world-class manufacturing facilities located close to our customers' units. Our strategic presence enables us to reach out better to our customers, offer just-in-time supplies and improve speed-to-market for the introduction of new products. The facilities are located at Hosur (Tamil Nadu), Puducherry and Rewari (Haryana).

### Hosur (Tamil Nadu)





## Puducherry



### Quality focus

At INEL, our products are benchmarked to global standards, manufacturing processes are designed to ensure a high level of excellence, and quality measures are woven into each and every aspect of our activity. Our unwavering focus on exceeding customer expectations has led us to constantly upgrade our quality standards and strive for 'zero defect'. We also embrace a culture of continuous improvement to ensure quality products at competitive prices, making us the partner of choice for leading automotive manufacturers.

Our plants hold the following certifications:

**Product Responsibility** – IATF: 16949:2016

**Employee Wellbeing & Safety** – IOS 45001:2018

**Environment** – IOS 14001:2015

**Continuous process improvement** – ISO 9001:2015





## Research & Development

A team of dedicated and qualified engineers, who have been trained in-house as well as at the collaborator's company, are engaged in designing and developing innovative electronic ignition products. We are also working on developing new technology solutions and softwares to serve the e-mobility segment and non-automotive sectors. Our continued quest for introducing future-ready solutions is reflected in the sustained investments we are making in our R&D capabilities, with a new Technology Centre being established in Hosur, Tamil Nadu.



CORPORATE OVERVIEW

STATUTORY REPORTS

FINANCIAL STATEMENTS

Visual representation of the upcoming Technology Centre



## Business Strengths



### Customer-Centric

We have consistently delivered innovative products that meet the requirements of our customers. Whether they seek higher functional performance, improved fuel economy, BS-VI compliant products, lower costs, or the ability to meet stricter emission norms, our customer-centricity drives us to meet exacting customer needs.



### Technology-Driven

Embedding advanced technology is the cornerstone of our success and is central to the way we operate even today. While IC engine technology remains our forte, we are staying ahead of the transformation curve by investing in the relevant technology to enable us to cater to the electric mobility segment as well as the non-automotive market.



### Quality & Reliability

Our high standards of quality and reliability are deeply valued by OEMs and end-users. Our high focus on these competitive differentiators remain unchanged as we continue to make new investments to update our processes, embed IoT systems and further strengthen our manufacturing and delivery capabilities.



### Agility & Flexibility

Our teams work in close collaboration with our customers and keep their eyes on changing market trends. This enables us to quickly respond to our customers' needs. Underpinned by our strategically located manufacturing units, we are also able to offer just-in-time supplies, thus reducing storage and inventory cost for our customers.



### Delivering Value

We are passionate about exploring innovative solutions that will increase operational efficiencies and lower costs, all the while meeting our high-quality standards. Our experience and expertise also enable us to bring to the market products that meet stricter emission norms.