



PERMANENT MAGNETS LIMITED

Trust. Reliability. Quality.





The Team

Team with diverse strengths



Sharad Taparia

Managing
Director



Shailesh Sule

President,
Hiperem Division,
Nickel Cobalt Alloys



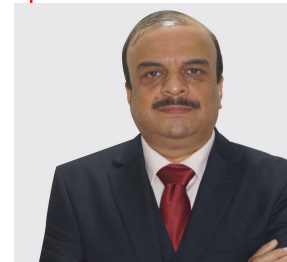
Prabhakar Kamath

President,
Shunt Division, Copper
and Brass Parts,
Magnets and Magnetic
Assembly CT Division
Gas Meter Parts



Sukhmal Jain

Sr. VP,
Finance



Girish Mahajan

VP, Development,
New Products,
Software, Systems,
Metallurgy



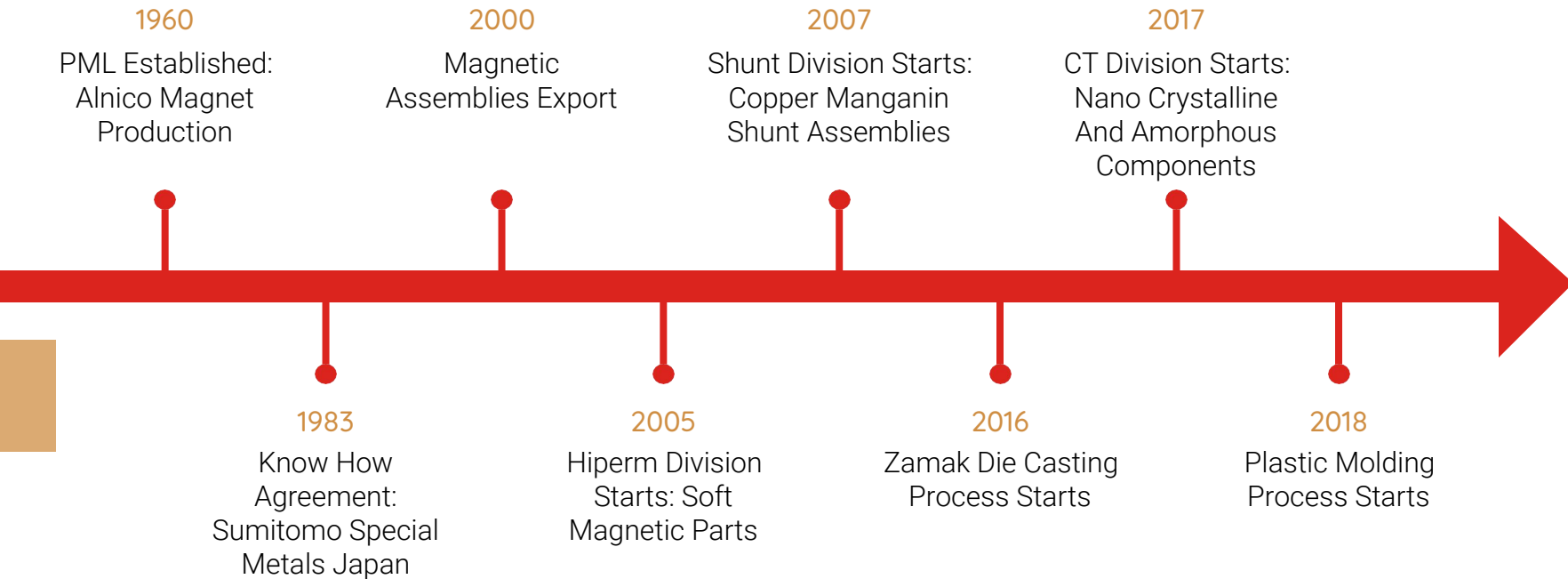
Permanent Magnets Ltd



- Public Limited Company
- Established in 1960
- 3 Manufacturing plants
- 110+ Staff
- 350+ Workers
- 50+ Engineers
- Rs. 117 Cr revenue
- Listed on Bombay Stock Exchange



Milestones





Quality Certificates



PERMANENT MAGNETS LTD.

QUALITY POLICY

Rev No. 03 Dated: 01/04/2017

We are committed for customer satisfaction in Magnets, Magnet Assemblies, Magnetic Systems, Shunt & shunt assemblies and Parts & sub-assemblies of Gas Meter business by continually improving effectiveness of Quality Management System and satisfying all applicable requirements.

Business Objective: To be a preferred supplier in the product range we are offering.

To achieve the objective we shall:-

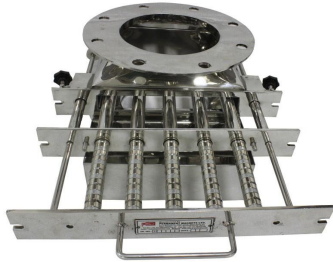
1. Ensure that our Quality Management System is effective and efficient.
2. Continue development at a pace needed by the changing market scenario of customers through continual updating of our competence, process and infrastructure.
3. Carry out course corrective actions and provide adequate resources for continual improvement.

S. J. TAPARIA

MANAGING DIRECTOR

Quality System:	ISO 9001:2015
Automotive:	ISO TS 16949:2009
Aerospace:	AS 9100:2009
Environment:	EMS 14001:2015
Automotive (in process):	AECQ 200

Magnetic Assemblies



Magnetic Grill



Mini Electromagnet



Magnetic Lifter



Magnetic Filter



Welding Clamp

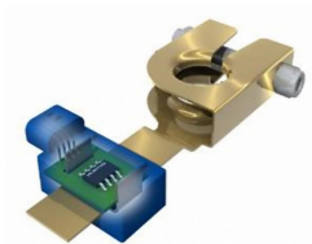


Magnetic Drum Separator

Products



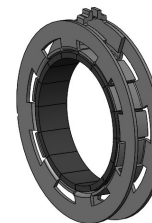
Current Sensing by Hall effect. NiFe, Silicon Steel Core, Shields, Flux Concentrators



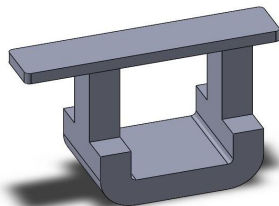
Copper Manganin Shunts and Assemblies



Nano Crystalline Amorphous, Current Transformers And Cores



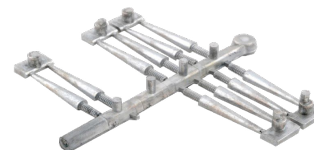
Torque Sensor



Safety Relay

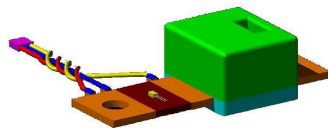


Magnets

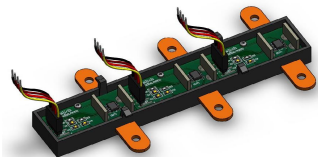


Zamak Alloy Castings

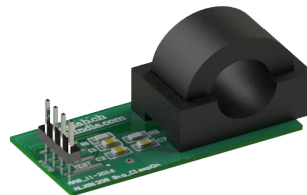
Current and Voltage Sensing Modules



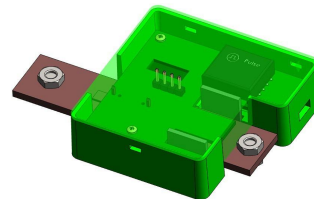
Hall Shunt Module



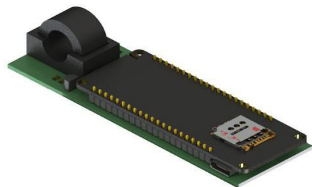
Shield Assembly



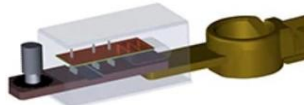
Clamp-on



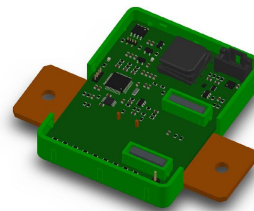
CAN Enabled



IOT



Smart Battery Clamp



Battery Monitoring System

Services



Designing & Prototyping



Annealing Services with
Temperature mapping
(TUS, SAT) as per AMS 2750 E



Magnetic Checking

Equipment & Facilities



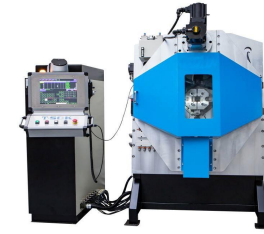
Induction Melting
and Casting



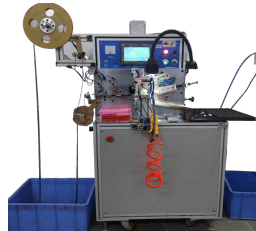
High Temp Hydrogen
Heat Treatment



High Speed
Punching Press



Multi Slide Die
Casting



Toroidal Core
Winding Machine



Dr. Boy Plastic
Molding Machine



Vertical Injection
Molding Machine

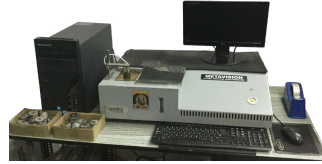


Ultrasonic Plastic
Welding Machine

Testing Equipment



AEC Q200



Spectrometer



VMM



Keyence Camera System
for Automatic Inspection



Loop Plotter



Koerzimat



New Product Development

STEP 1

Get inquiry
from customer

STEP 2

Present cost effective
solution: 3D Modeling/
Simulation / Prototyping

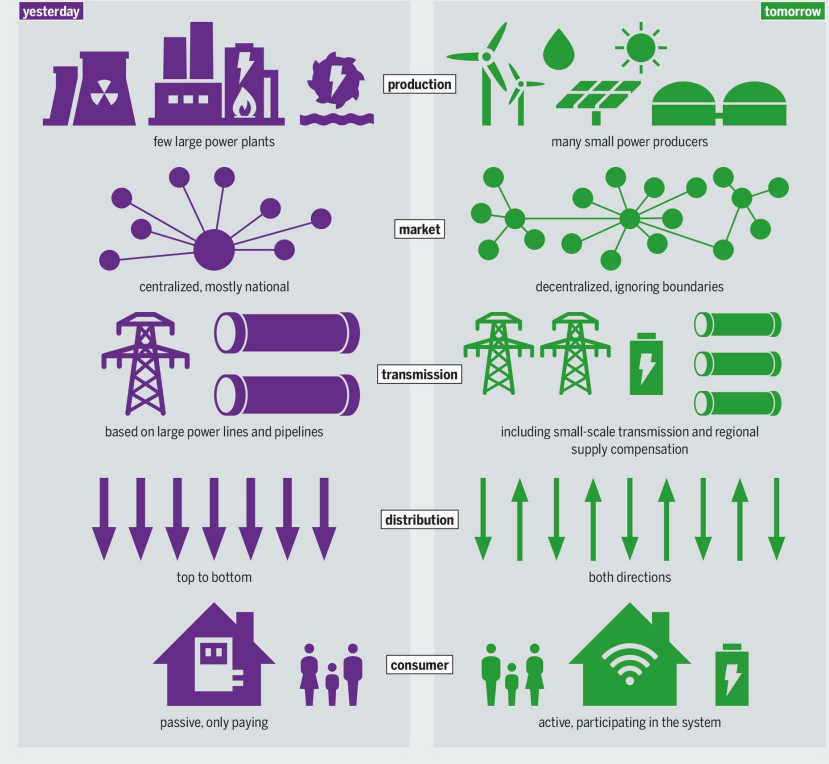
STEP 3

Develop product /
assembly till
successful. Never give
up.

Smart Grid

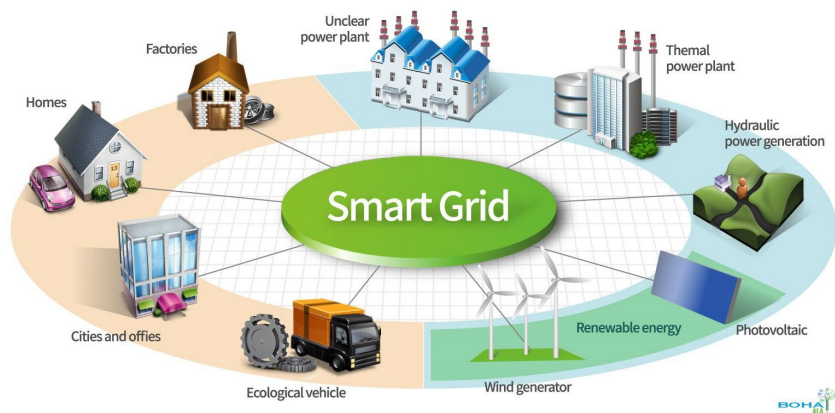
STAYING BIG OR GETTING SMALLER

Expected structural changes in the energy system made possible by the increased use of digital tools



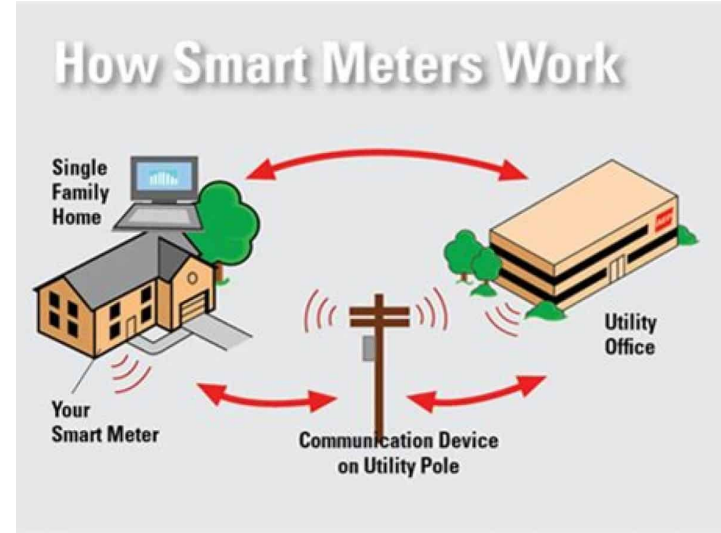
Energy Meters Market

- Smart Grid
 - AMI (Automated Metering Infrastructure)
 - **Smart meters (\$28B worldwide - 2025) (188M units)**
 - Communication network
 - USA, UK, Germany, France, China, India, Brazil, Spain - biggest investors



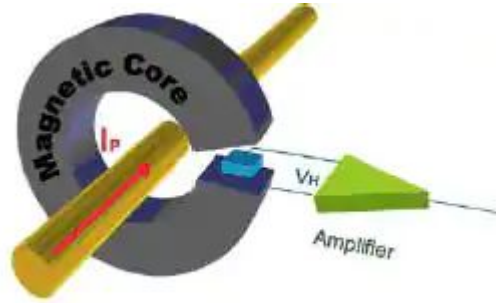
Smart Meter

- Real time communication
- Remote controlling
- Features (variable tariff etc.)



Current sensing technology

- Hall sensor
- Shunt
- CT



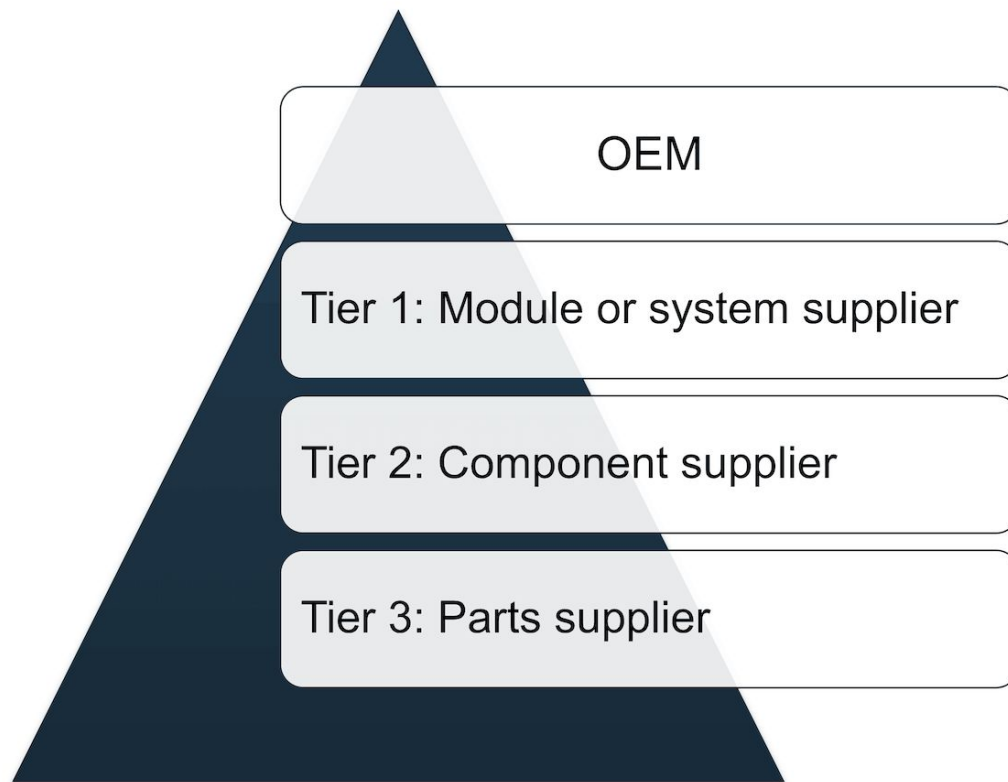
Vehicle Types

		 CONVENTIONAL	 HYBRID	 PLUG-IN HYBRID	 ALL-ELECTRIC
SOURCES OF ENERGY					
CONSUMPTION					
EMISSIONS					 NO EMISSION

Current Sensing



PML in Automotive market



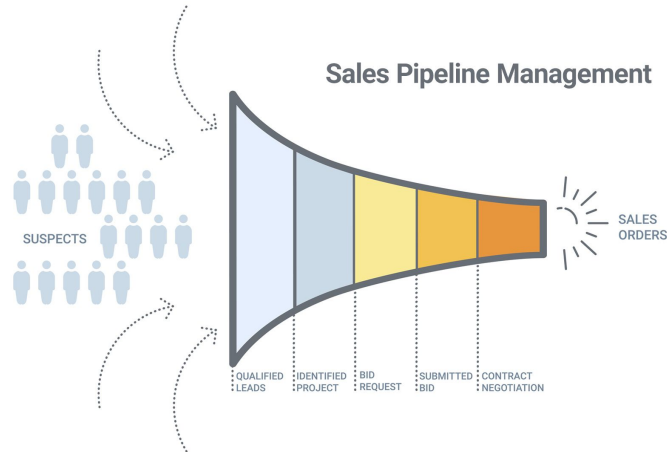
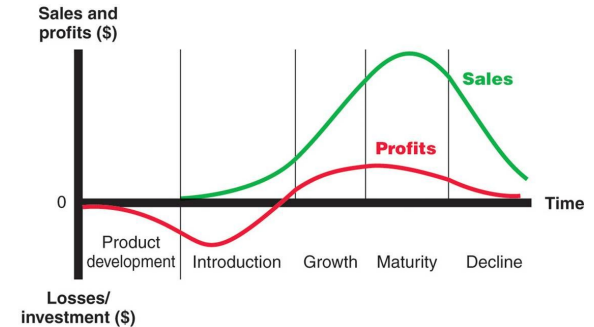
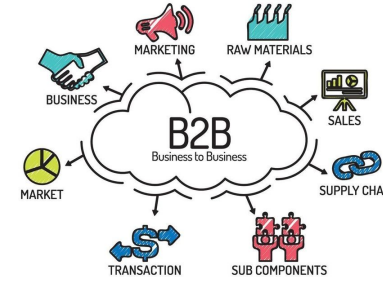
Gas meters

- Diaphragm type
- Ultrasonic



Business Model

- B2B
- Customer designed products
- Product life cycle
- Pipeline of projects
- Increasing Capabilities



Capacity and Capex

- Flexible capacity
 - Plant utilization
- Low Capex - existing products
 - Tool cost paid by customers
- Capability building - long term - investments
- New factory planned
 - Integrate all 3 plants



Supply constraints

- Covid
- Steel shortage
- Fluctuations in raw material prices



TECHNICAL PARTNERS



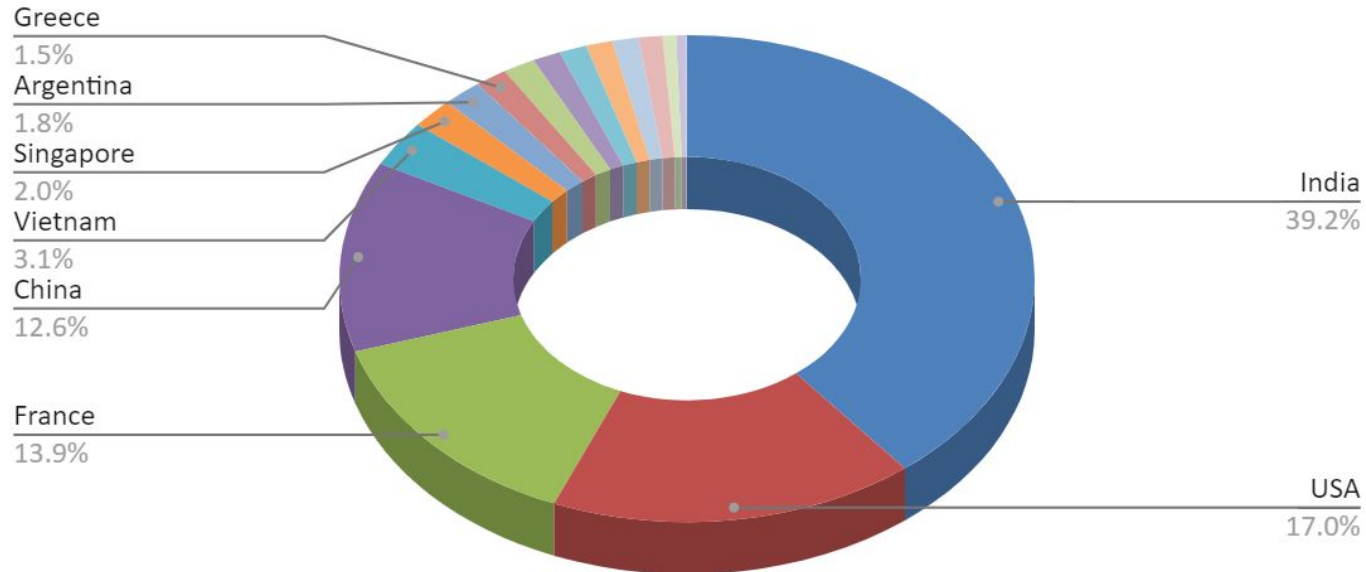
PML and magLab AG, Switzerland have a technical collaboration.

By using our combined expertise in magnetic designs, magnetic materials, sensors and high tech manufacturing technology, we develop and productionize innovative technical products & solutions.

They also help in sales of products.

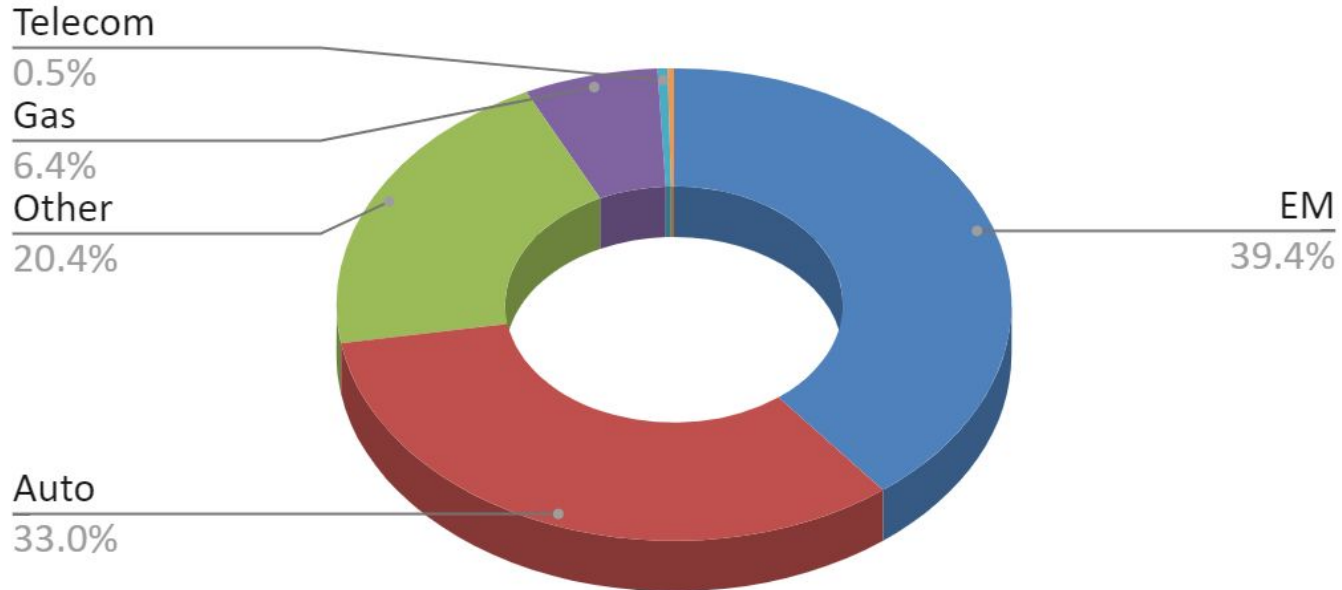
Region wise sales expected

Region wise sales



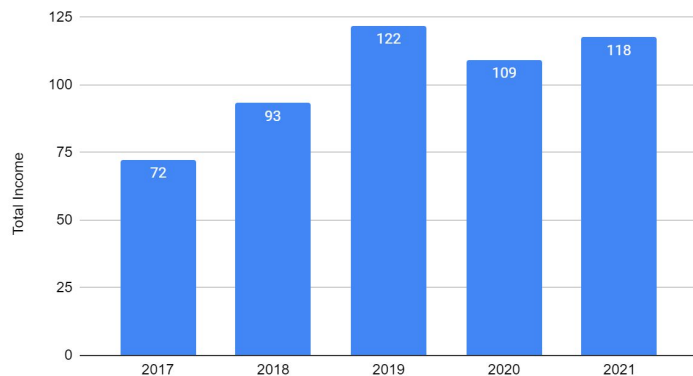
Application wise Sales expected

Application wise sales

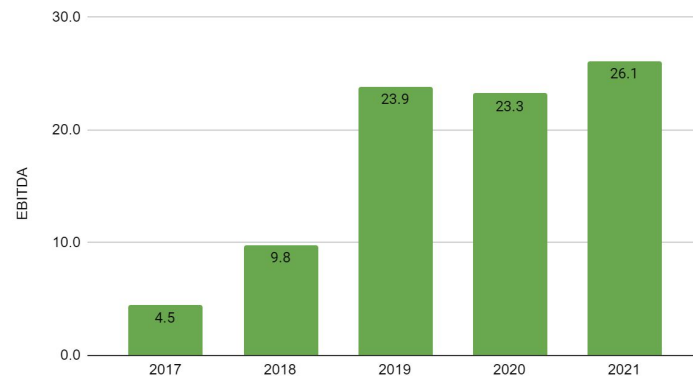


Yearly trends

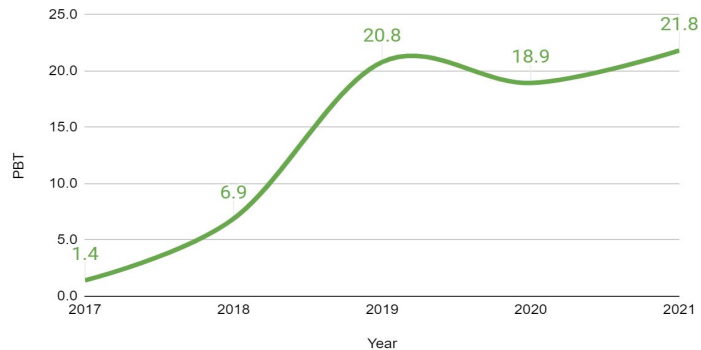
Total Income Rs. Crores



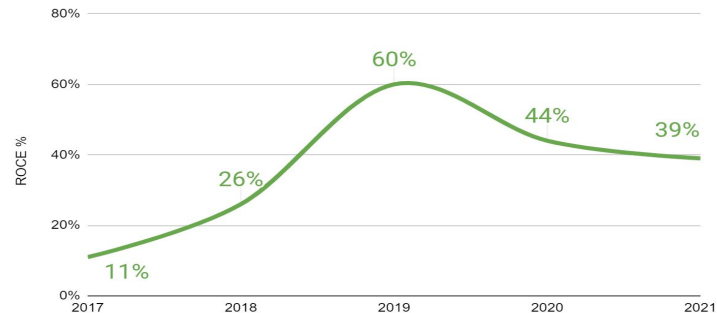
EBITDA Rs. Crores



PBT Rs. Crores



ROCE %





Disclaimer

This presentation and the accompanying slides (the “Presentation”), by Permanent Magnets Limited (the “Company”), have been prepared solely for information purposes and do not constitute any offer, recommendation or invitation to purchase or subscribe for any securities and shall not form the basis or be relied on in connection with any contract or binding commitment whatsoever.

This Presentation has been prepared by the Company based on information and data which the Company considers reliable, but the Company makes no representation or warranty, express or implied, whatsoever and no reliance shall be placed on, the truth, accuracy, completeness, fairness and reasonableness of the contents of this Presentation. This Presentation may not be all inclusive and may not contain all of the information that you may consider material. Any liability in respect of the contents of, or any omission from, this Presentation is expressly excluded.

Certain matters discussed in this Presentation may contain statements regarding the Company’s market opportunity and business prospects that are individually and collectively forward-looking statements. Such forward-looking statements are not guarantees of future performance and are subject to known and unknown risks, uncertainties and assumptions that are difficult to predict. These risks and uncertainties include, but are not limited to, the performance of the Indian economy and of the economies of various international markets, the performance of the industry in India and world-wide, competition, the company’s ability to successfully implement its strategy, the Company’s future levels of growth and expansion, technological implementation, changes and advancements, changes in revenue, income or cash flows, the Company’s market preferences and its exposure to market risks, as well as other risks. The Company’s actual results, levels of activity, performance or achievements could differ materially and adversely from results expressed in or implied by this Presentation. The Company assumes no obligation to update any forward-looking information contained in this Presentation. The Company is not responsible for any third party statements and projections.



Reach us at:
investors@pmlindia.com