

CONNECTOR

AKIRA FAMILY LETTER

Dear Family MEMBERS

"If you want to walk fast, walk alone. But if you want to walk far, walk together."

Welcome to our newsletter!

This powerful African proverb reminds us that true success is not just about speed, but about the strength of working together. As we continue our journey, collaboration, shared goals, and mutual support will help us achieve lasting growth.

Our PHILOSOPHY

Statement 4 - We always apply right thoughts, ideas, suggestions and learning.

Let's Think!



REACTIVE

Waits for time and gets overwhelmed.

PROACTIVE

Makes time and gets things done.

Health Checkup Camp

As part of our ongoing commitment to employee well-being, a Health Checkup Camp was successfully conducted on 31st March 2026 at our premises. This initiative aimed to promote preventive healthcare and ensure the overall wellness of our employees. The camp included basic health screenings such as:

- General health assessment
- Blood pressure and sugar testing
- PFT, LFT and KFT



Employees actively participated in the program and gained valuable insights into their health status. We remain dedicated to creating a healthy and safe work environment and will continue to organize such initiatives for the benefit of all employees.



Healthy Food - Coconut

Inspection	What to Check	Good Quality	Avoid
Outer Surface	Shell	Brown, dry, and clean	Cracks, black spots, mold
Weight	Hold in hand	Feels heavy for its size	Light weight (less water)
Shake Test	Shake near ear	Water sound should be heard	No sound
Eyes (3 spots)	Coconut eyes	Clean, no mold	Black/white spots
Fiber	Outer husk	Thick and strong	Soft / missing fiber
Cracks	Shell condition	No cracks	Cracked / damaged

Let's know

Karl Benz – The Pioneer Who Shaped Modern

Transportation

In the early days, mechanical vehicles could not be controlled as desired. They would move only at a fixed speed and could not be adjusted according to the driver's needs. Recognizing these limitations, a German inventor, Karl Benz, envisioned creating a more convenient and efficient vehicle that would meet the demands of that era. Karl Benz succeeded in his efforts by

developing a well-designed motor vehicle and also secured a patent



for his invention. Although German newspapers widely appreciated his achievement, the government was hesitant to support his innovation.

In fact, regulations were imposed limiting the speed of his vehicle to 6 km/h within cities and 12 km/h outside city limits.

One day, Karl Benz picked up a Chief Minister from a railway station in his vehicle. Due to the imposed speed restrictions, the vehicle moved very slowly—even a horse cart overtook them. Annoyed, the Chief Minister remarked that it would take two days to reach their destination. Seizing this opportunity, Karl Benz explained that they could reach faster if higher speeds were allowed, but government restrictions prevented it. Realizing the issue, the authorities later relaxed the speed regulations.

Today, the buses and cars we use—with their advanced features and convenience—are built upon the foundation of Karl Benz's invention.

CELEBRATING The Journey



Krishnakumari



Sandhya



Jaya



Mathivanan



Umamaheswari



Sobi



Selvaeswari



K.Anitha



Sheela



Vijayalakshmi



Girija



Vanithamani

welcoming our commandos



Saranya V



Santhiya S



Kalaiselvi G

Technical Tips - MOSFET

Switching in Power Electronic Circuits

Section	Details
Component	MOSFET
What it does	Acts as a high-speed electronic switch to control voltage and current
Where used	SMPS, inverters, control cards, power circuits
Working Principle	Gate ON → Conducts (ON) Gate OFF → Stops (OFF)
Importance	Improves efficiency, reduces power loss, ensures stable output

Testing Parameters

Parameter	What to Check	Problem if Wrong
Gate Voltage (Vgs)	Correct range as per design	Low → Not fully ON → Heating
Drain-Source Voltage (Vds)	Low during ON condition	High → Possible fault
Switching Speed	Fast and clean waveform	Slow → Power loss
Temperature	Normal operating level	High → Drive/load issue

Common Production Issues

Issue	Possible Cause
MOSFET overheating	Improper gate drive / heat sink issue
Output fluctuation	Unstable switching
Sudden failure (short)	Component damage / PCB fault

Shop Floor Learning

Action	Purpose
Check gate signal using CRO	Verify proper switching
Inspect soldering & mounting	Avoid loose connections
Confirm component rating	Ensure correct usage
Compare with good board	Quick fault identification