

Arihant

सपत्नी Newsletter

A Touch of Excellence, Every Month

S E P T E M B E R 2 0 2 6



TABLE OF CONTENTS



MESSAGE OF THE MONTH



SPOTLIGHT OF THE MONTH

- Featured Articles



EVENTS AND CONFERENCES

- Arihant at Manufacturing 5.0 – Shaping the Future of Smart, Connected & Human-Centric Manufacturing
- Arihant at CII Conference on Railways Excellence
- Arihant Electricals at IESA North Chapter Meet
- Arihant Electricals at UP–Japan Investment Summit
- Independence Day Flag Hoisting at Arihant Electricals



PEOPLE & CULTURE

- August Birthday Celebrations
- September Birthdays
- Welcome Aboard! (New Joinees - Aug 2026)



MOMENTS OF LAUGHTER & FUN



FUN & BRAIN TEASER CORNER



LITTLE CREATORS' CORNER

- Match the Correct Pair – Power Up Your Knowledge!
- Connect the Dots and Guess the object!



Positive Attitude towards Profession and Personal Life Defines One's Success



Dr. Manoj Pandey
(HOD, R&D)

Success is often measured by achievements, position, wealth or recognition. But behind every lasting success lies something much more fundamental to our attitude.

We may not always have control over the circumstances we face, the challenges that come our way, or the decisions of others. What we can control is how we respond to them. A positive attitude does not mean ignoring problems; it means facing them with the belief that every challenge has a solution and every experience has something to teach us.

In our professional life, attitude makes a significant difference. Two people may have similar knowledge and opportunities, yet their outcomes can be very different. The person who takes ownership, remains curious, accepts feedback, learns from failures and looks for solutions rather than excuses gradually becomes more valuable to the organization.

A positive professional attitude means:

- Taking responsibility rather than shifting blame.
- Focusing on solutions rather than problems.
- Learning continuously rather than becoming comfortable with existing knowledge.
- Appreciating teamwork rather than seeking individual credit.
- Treating failures as lessons rather than setbacks.
- Maintaining discipline even when motivation is low.
- Looking for opportunities to contribute beyond one's assigned responsibility.

The same principle applies to life. Success is not a destination; it is a continuous journey of learning, adapting and becoming better. There will be good days and difficult days. There will be appreciation as well as criticism, success as well as failure. What ultimately matters is whether we continue moving forward with confidence and purpose.

A positive attitude also influences the people around us. A person who brings energy, optimism and constructive thinking to a team can inspire others to perform better. Leadership is not only about giving direction it is also about creating an environment where people believe that they can achieve more.

At the same time, positivity should not be confused with blind optimism. A truly positive person recognizes reality, accepts shortcomings and takes corrective action. Positive thinking becomes powerful when it is accompanied by positive action.

The formula is simple:

Right Attitude + Continuous Learning + Hard Work + Integrity + Perseverance = Sustainable Success

Ultimately, our profession gives us an opportunity to build our careers, but our attitude determines how far we grow through that opportunity.

Choose to be positive. Choose to learn. Choose to take responsibility. Choose to keep moving forward. Because success is not defined only by what we achieve, but also by who we become while achieving it.

SPOTLIGHT OF THE MONTH

Featured Articles

Dive into this month's insightful articles, covering industry trends, innovations, and expert perspectives. Stay informed, stay inspired, and explore ideas that drive excellence at Arihant Electricals.

1

The Internet of Things (IoT) and its impact on Modern Technology



Anubhav Pandey
(Engineer, R&D)



The Internet of Things (IoT) is a network of physical devices embedded with sensors, software, and connectivity that enables them to collect, exchange, and analyze data over the internet. IoT is transforming the way we live and work by connecting the physical world with the digital world.

HOW IoT WORKS

IoT devices collect data from the environment using sensors. The data is transmitted through communication networks to the cloud or local servers. The data is then processed, analyzed, and used for monitoring, control, automation, and decision-making.

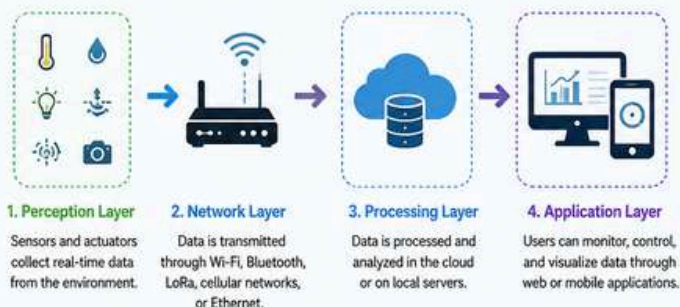
EXAMPLES OF IoT DEVICES



APPLICATIONS OF IoT

IoT is widely used in various industries and fields. In smart homes, it enables remote control of appliances, lighting, and security systems. In healthcare, wearable devices monitor vital signs and help in early diagnosis. In agriculture, IoT sensors monitor soil moisture and weather conditions to improve crop yield. In industrial automation, IoT helps in machine monitoring, predictive maintenance, and process optimization. Smart cities use IoT for traffic management, waste management, and energy conservation.

IoT SYSTEM ARCHITECTURE



IMPACT AND BENEFITS



REAL-WORLD IoT APPLICATIONS



CHALLENGES: Despite its many advantages, IoT faces challenges such as security threats, data privacy concerns, interoperability issues, and the need for reliable connectivity.



FUTURE OUTLOOK: With advancements in AI, cloud computing, 5G, and edge computing, IoT will continue to grow and play a crucial role in building a smarter, more connected world.

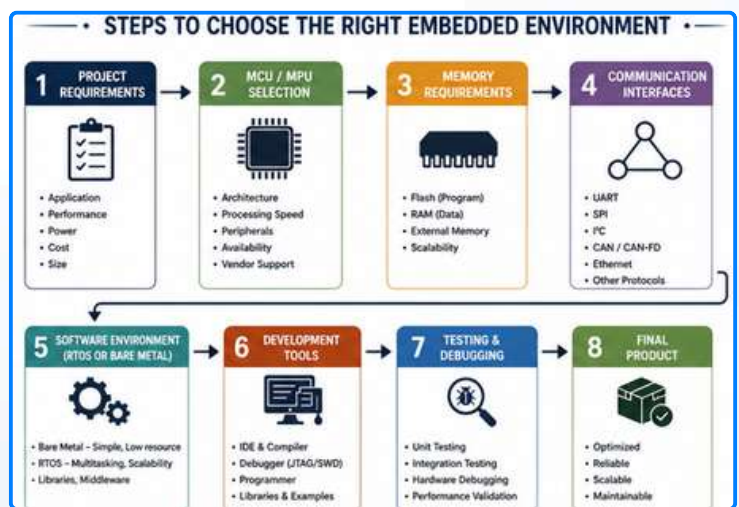
How to Choose the Right Embedded Environment for Your Project

Every embedded systems project begins with an idea, but its success largely depends on selecting the right embedded environment. The development environment includes the hardware platform, microcontroller or processor, development tools, operating system, programming language, and debugging utilities. Choosing these correctly at the beginning can save significant development time, cost, and effort.



Nikhil Mandoli
(Engineer, R&D)

The first step is to understand the project requirements. A simple sensor monitoring application may only require a low-power microcontroller, while applications such as industrial automation, robotics, or automotive systems often demand high-performance processors with real-time capabilities. Memory requirements, communication interfaces such as UART, SPI, I²C, CAN, or Ethernet, and processing speed should also be carefully evaluated.



The software environment is equally important. Small applications can often run efficiently on bare-metal firmware, whereas complex systems involving multitasking, networking, or multiple peripherals may benefit from a Real-Time Operating System (RTOS) such as FreeRTOS. Selecting a development environment with strong debugging tools, compiler support, and active documentation can significantly improve productivity.



Scalability should also be considered. A project may begin with basic functionality but later require additional communication protocols, security features, or cloud connectivity. Choosing a platform that supports future expansion helps avoid costly hardware redesigns.

Finally, evaluate factors such as development cost, component availability, power consumption, and long-term vendor support. A reliable ecosystem with regular software updates and a strong developer community simplifies maintenance throughout the product's lifecycle.

Selecting the right embedded environment is not just a technical decision, it is a strategic one. Careful planning at the start of a project ensures better performance, easier development, and a more reliable final product, ultimately increasing the chances of project success.



IRIS Certification® – Driving Quality Excellence in the Railway Industry

Building Quality, Reliability and Customer Confidence in Railway Manufacturing

The railway industry is one of the most critical and demanding sectors, where quality, safety, reliability and consistency are essential. Every component supplied for railway applications must meet defined technical, quality and customer requirements. To support these expectations, IRIS Certification provides a globally recognized framework for improving business and quality management in the railway sector.



Pragati Gupta
(Manager, QC)

What is IRIS Certification?

IRIS stands for International Railway Industry Standard. Today, the certification scheme operates under the IRIS Certification framework and focuses specifically on organizations involved in the railway supply chain. The objective is not only to maintain a documented quality management system but also to ensure that the system is effectively implemented, measured and continuously improved.

IRIS Certification focuses on areas such as:

- Quality and process management
- Project management
- Risk management
- Customer satisfaction
- Supplier management
- Product and process conformity
- Defect prevention and reduction
- Change and configuration management
- Performance monitoring
- Continual improvement

Why is IRIS Important for Railway Manufacturers?

For railway manufacturers and suppliers, quality is not limited to final inspection. It begins with **customer requirements and continues through design, purchasing, manufacturing, inspection, testing, delivery and after-sales activities.**

A strong IRIS system helps an organization to:

Improve Quality → Reduce Defects → Control Risks → Improve Delivery → Increase Customer Satisfaction

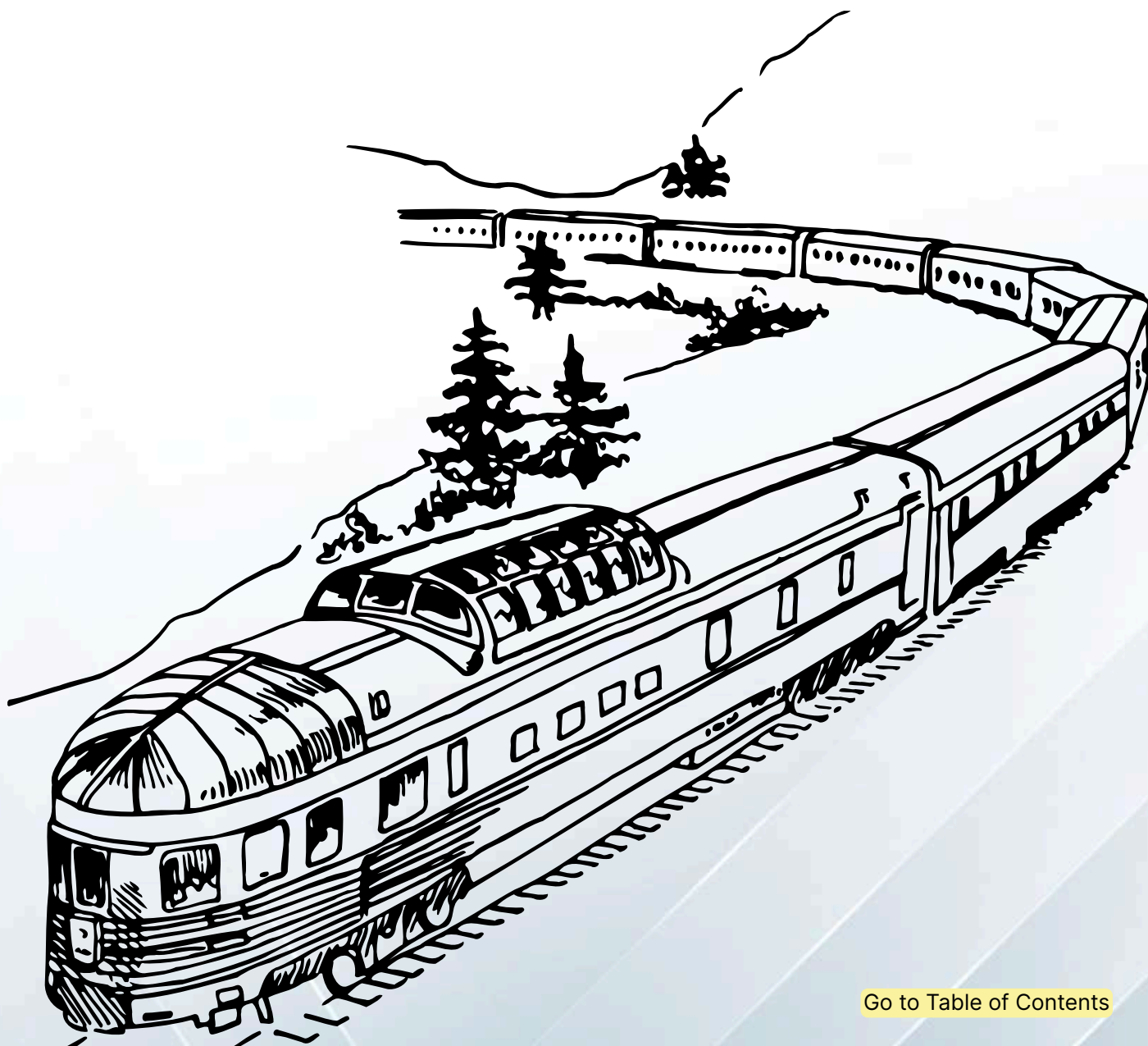
IRIS and ISO 9001 – What is the Difference?

ISO 9001 provides a general Quality Management System applicable across different industries. IRIS Certification, through ISO 22163, adds **railway-specific requirements** to this foundation.

Therefore, an organization already having an effective ISO 9001 system can build upon it for railway-specific requirements rather than treating IRIS as a completely separate system.

“Quality is not inspected into a product; Quality is built into every process.”

IRIS Certification– Building Quality Today for Safer and More Reliable Railways Tomorrow.

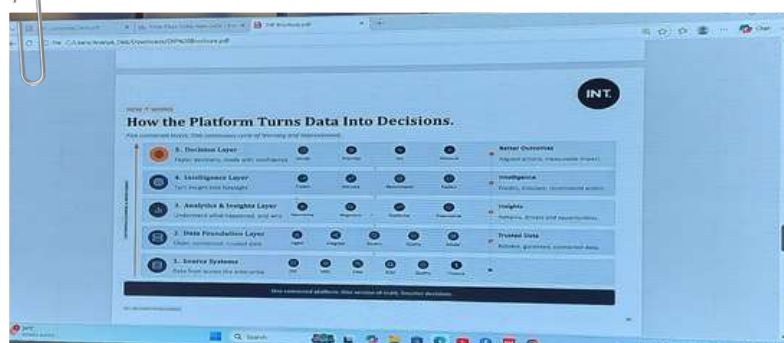


EVENTS AND CONFERENCES

1. Arihant at Manufacturing 5.0 – Shaping the Future of Smart, Connected & Human-Centric Manufacturing

Arihant participated in **Manufacturing 5.0 – Metamorphosis of Business 2026**, engaging with industry leaders on the future of smart and connected manufacturing.

The summit explored **AI, IIoT, automation, data analytics, smart factories, and human-centric technology**, highlighting how innovation can drive smarter, faster, and more resilient manufacturing.



click here!

2. Arihant at CII Conference on Railways Excellence

Arihant Electricals participated in the **7th CII Conference on Railways Excellence**, exploring key priorities for **Railways@2047**, including innovation, connectivity, competitiveness, and self-reliance.

A valuable platform to exchange insights and engage in conversations shaping the **future of India's railway ecosystem**.



click
here!

3. Arihant Electricals at IESA North Chapter Meet

Arihant Electricals participated in the **IESA North Chapter Meet** at the **STMicroelectronics facility, Greater Noida**, connecting with industry leaders and exploring emerging opportunities across the electronics and semiconductor ecosystem.



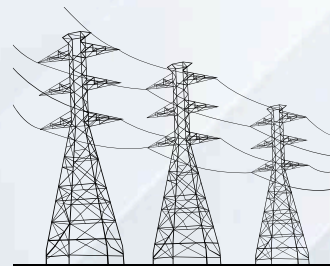
4. Arihant Electricals at UP–Japan Investment Summit

Arihant Electricals participated in the **UP–Japan Investment Summit on 19 August**, bringing together key stakeholders to explore investment opportunities, strengthen India–Japan business ties, and foster collaboration across industries.



5. Independence Day Flag Hoisting at Arihant Electricals

Arihant Electricals celebrated **India's 80th Independence Day** with a proud and inspiring flag-hoisting ceremony on 15th August. The event brought together our team in a spirit of unity, patriotism and pride as we honoured the nation and remembered the sacrifices that shaped our freedom.



August Birthday Celebrations

Celebrating our incredible team members and wishing them joy, success and prosperity!

Birthday celebration of Ms Pragati and Roshani



Birthday celebration of Ms Ruchi

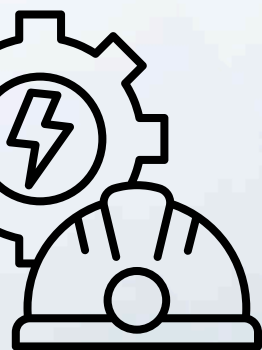




Upcoming September Birthdays

Wishing you joy, success, and a fantastic year ahead!

Ravinder Singh	September 2, 2026
Abhay Rathore	September 5, 2026
Waseem Akram	September 9, 2026
Ganesh Yadav	September 16, 2026
Yash	September 20, 2026
Ashish Rana	September 23, 2026
Nishant Kumar (R&D)	September 30, 2026



Welcome Aboard! (New Joinees - August 2026)

Excited to have new talents join the Arihant family as we grow together!



Prashant Verma
Engineer Production



Arya Kamboj
Engineer QC



If Electrical Components **Could Talk**



Fuse:

At least when things go wrong, I sacrifice myself.

Circuit Breaker:

Oh please. I trip, recover, and come back stronger.

Fuse:

Drama king.

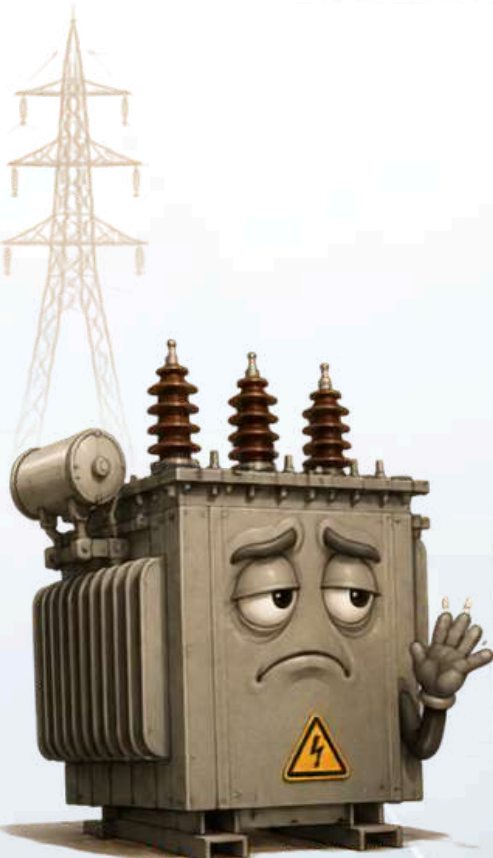
Circuit Breaker:

Says the guy who disappears after one problem.



Transformer:

Please stop saying 'just a small load increase.' We both know where this is going...



FUN & BRAIN TEASERS CORNER

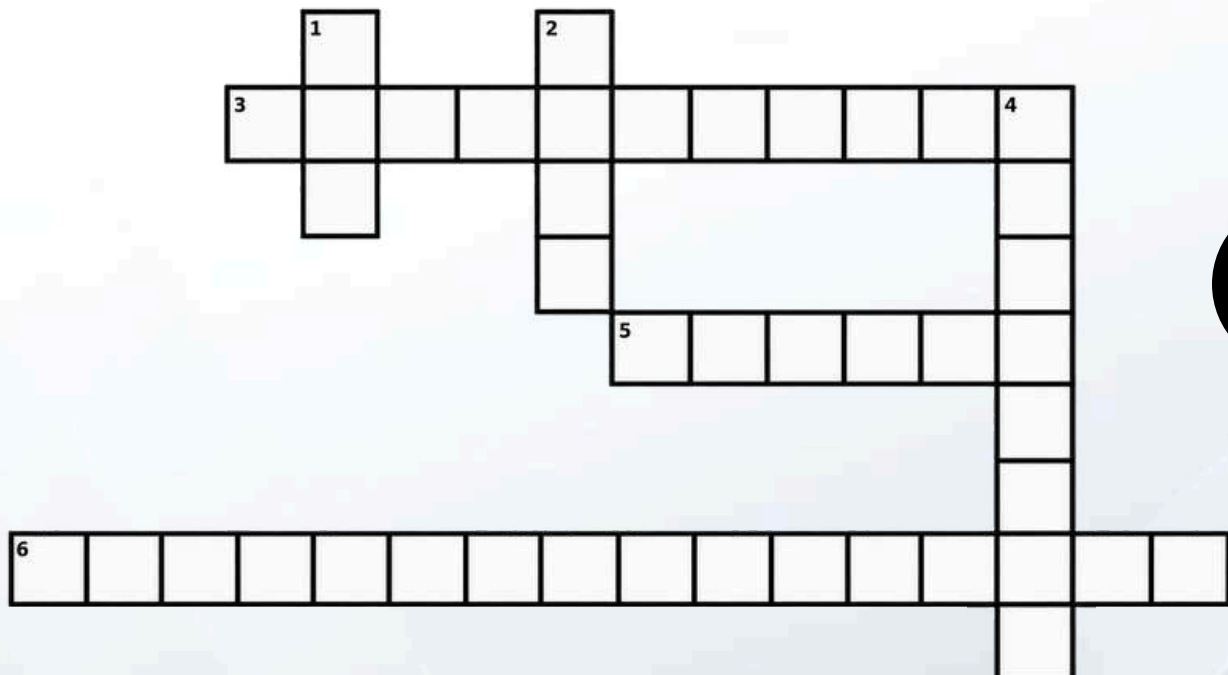
Crossword Puzzle

Get ready to kick-start the year with a little thinking and a lot of fun! This month's **Crossword Puzzle** is designed to challenge your knowledge of electrical systems, engineering basics, and the industries Arihant Electricals proudly serves. Put on your thinking caps, solve the clues, and share your answers with the **HR Head**.

The first three correct entries will be featured in our September edition. Don't miss this chance to test your brain and enjoy some friendly competition!

DOWN

1. The unwanted current flowing through the earth due to insulation breakdown. (11 letters)
2. A relay that operates based on the difference between incoming and outgoing currents. (12 letters)
3. A current transformer designed specifically for protective relaying applications. (12 letters)



ACROSS

4. The ratio of actual power to apparent power in an AC circuit. (11 letters)
5. The temporary rise in voltage caused by switching operations or lightning. (11 letters)
6. The ability of a power system to remain in synchronism after a disturbance. (9 letters)

July Crossword Puzzle Winner Announcement

1



Anubhav Pandey

2



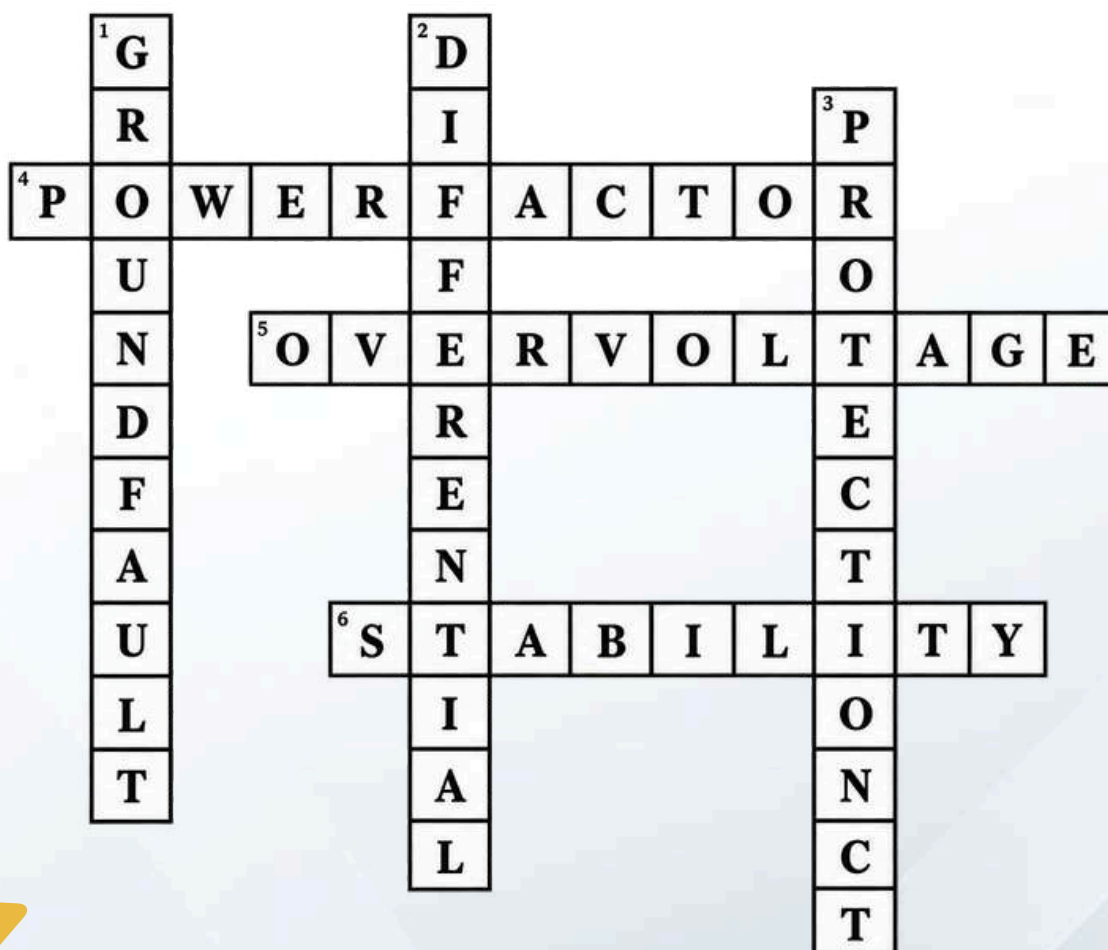
Nirdesh Pandey

3



Sumit Sharma

Puzzle Answers from Our Last Edition



Note: The winners were selected according to the quickest response time.

LITTLE CREATORS' CORNER

This corner is for our Employee's Kids.

A fun-filled space to learn, play, and explore the exciting world of electricity!

Match each electrical item with its correct use and discover how different components help power our homes, cities, railways, and industries. Just use your thinking skills, curiosity, and imagination to find the right pairs!

- 📌 **Parents can help younger children complete the activity and share their answers with the HR team.**
- 📌 **Some smart little electrical explorers may get featured in the next Arihant Newsletter!**

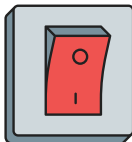
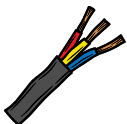
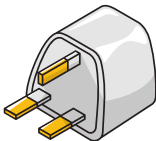
Ready... set... MATCH!





1. Match the Correct Pair – Power Up Your Knowledge!

Learning can be fun when you play along! Match the electrical item on the left with its correct use on the right. Can you get them all right?

(A) Tools	(B) Used for
 Bulb	Carries electricity
 Switch	Produces light
 Battery	Turns electricity ON/OFF
 Wire	Stores electrical energy
 Plug	Produces cool air
 Fan	Connects an appliance to power

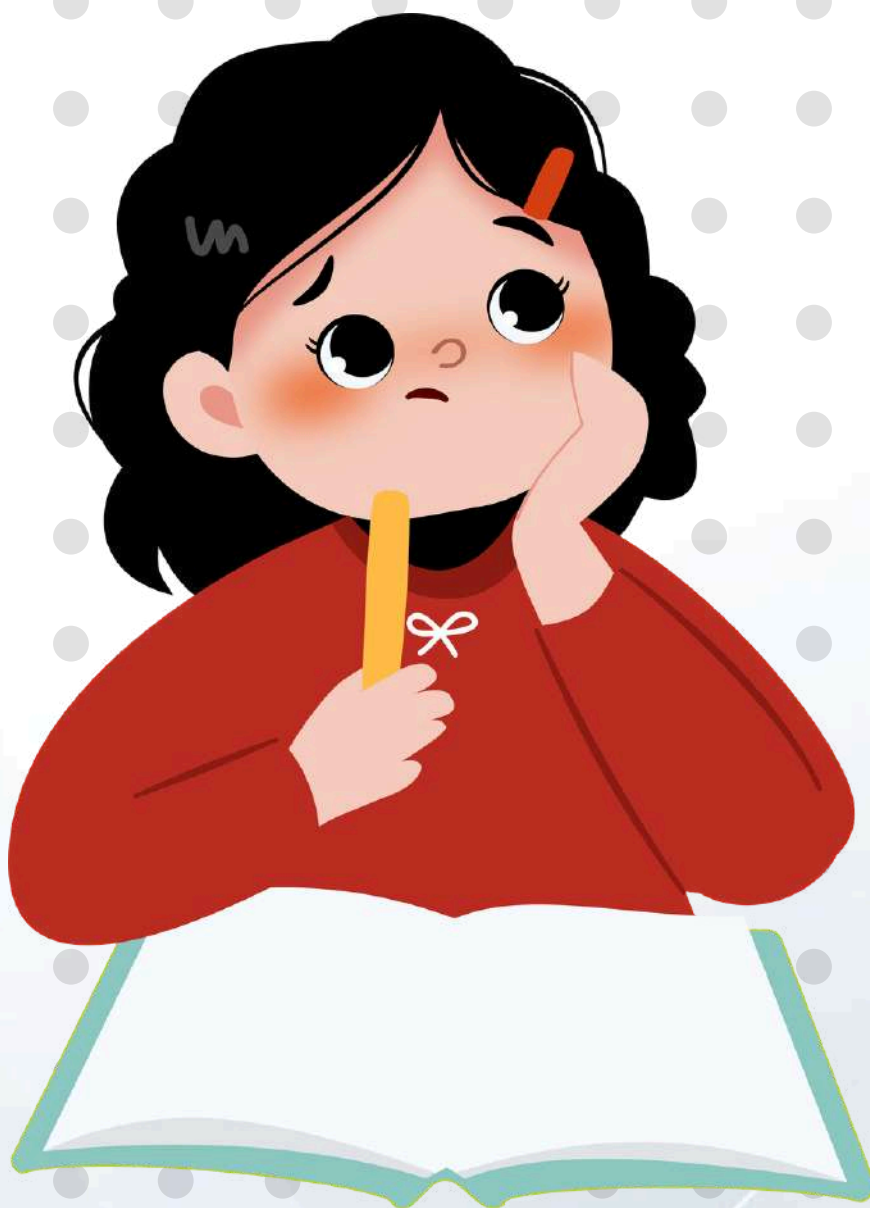
How many did you get right?

Match them all and become a little **Electrical Expert!**

2. Connect the Dots and Guess the object!

- 📌 Complete the picture and share it with the HR team.
- 📌 Selected entries may be featured in the next Arihant Newsletter!

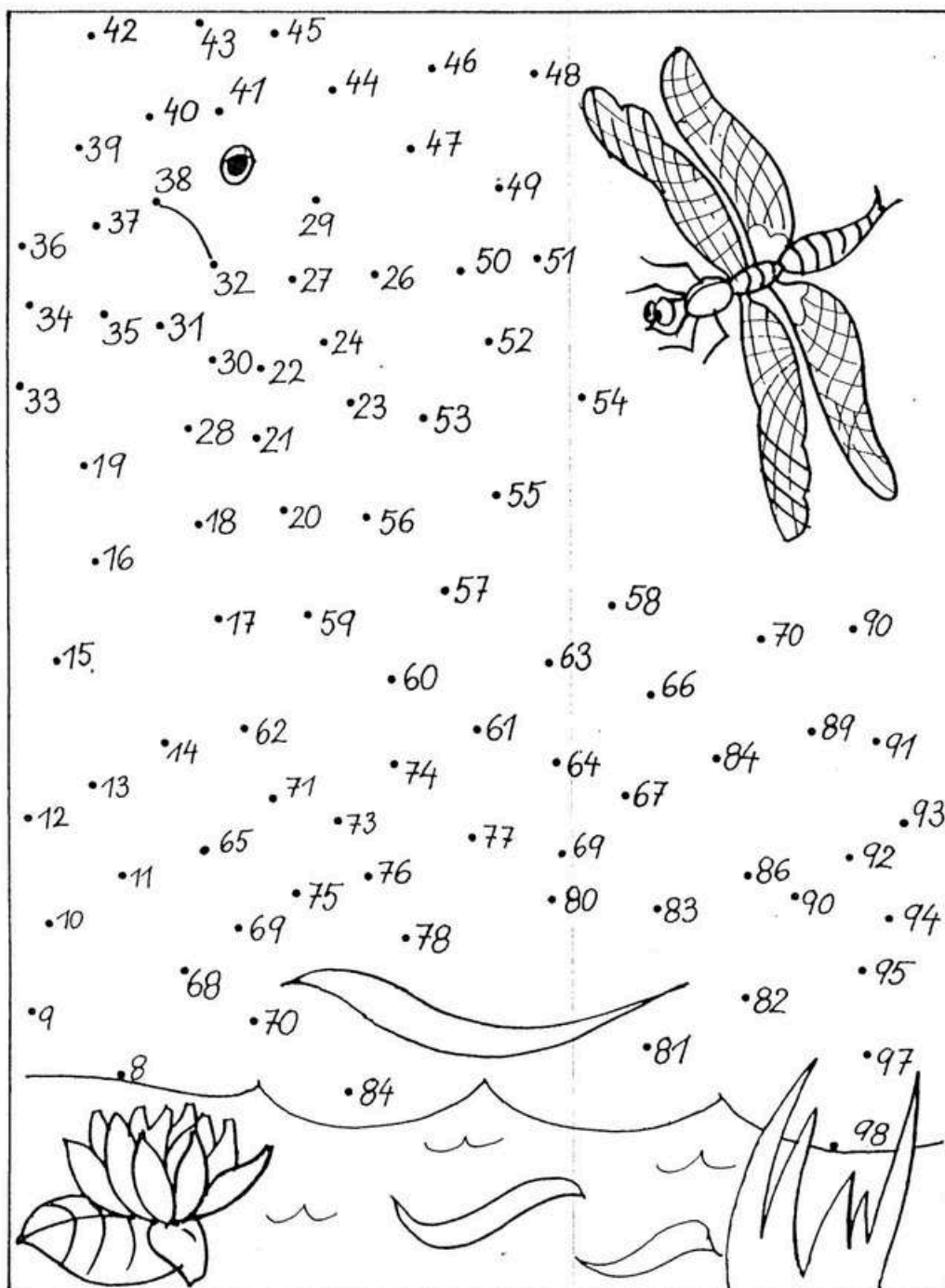
Ready...Set...CONNECT!



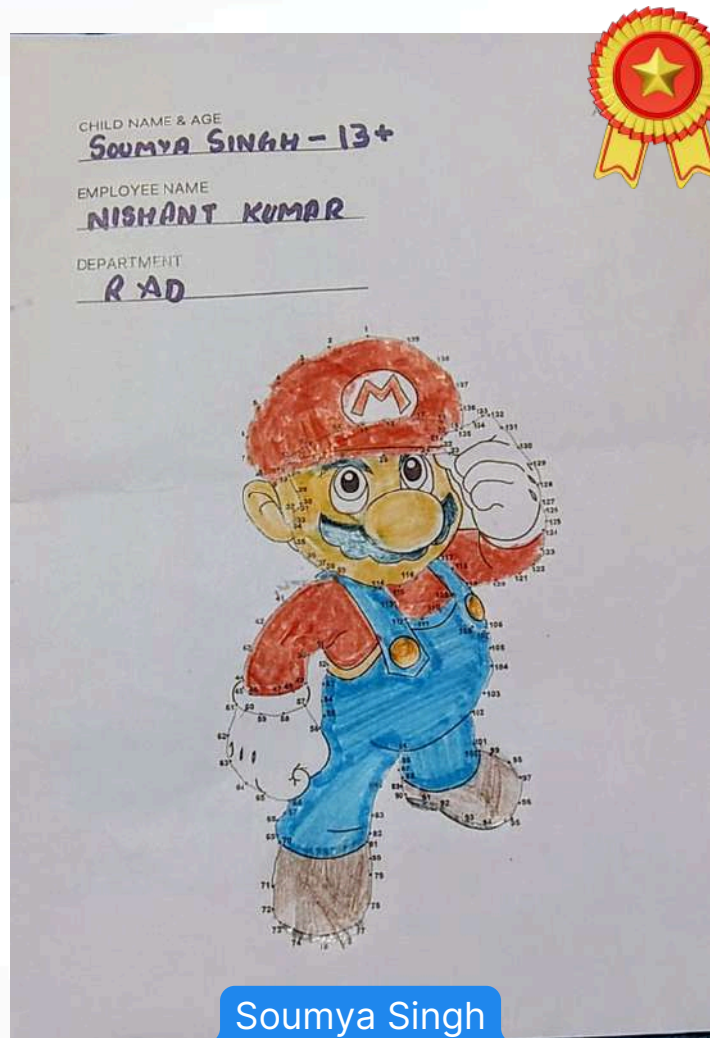
CHILD NAME & AGE

EMPLOYEE NAME

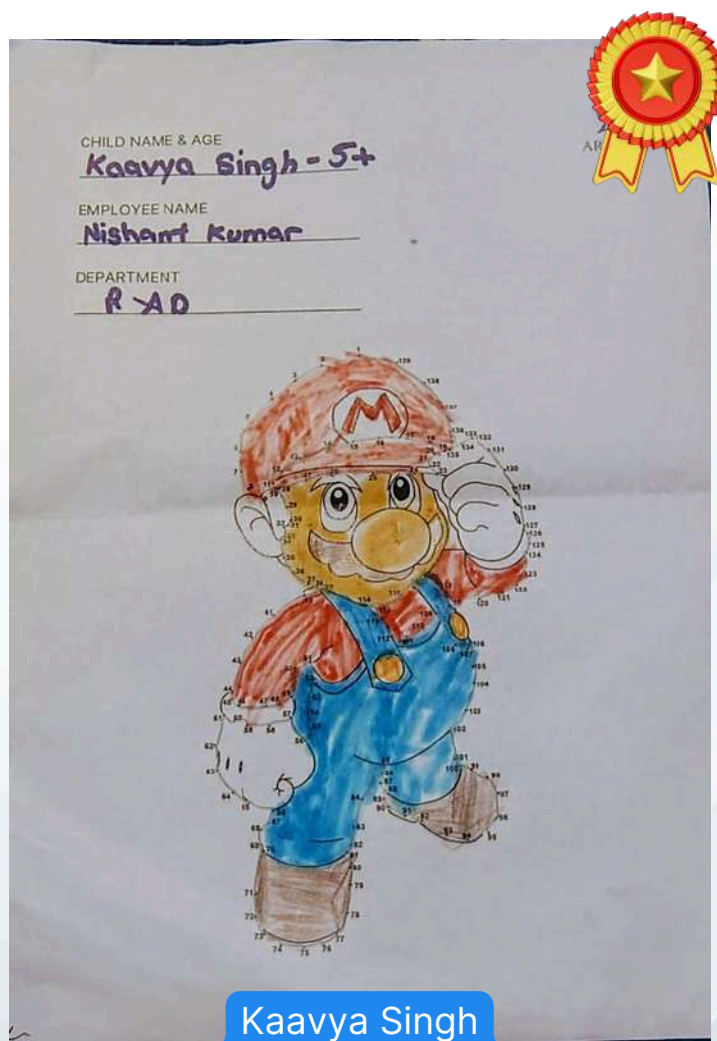
DEPARTMENT



Showcasing Our Employee's Young Star



Soumya Singh
D/O Mr. Nishant Kumar (R&D)



Kaavya Singh
D/O Mr. Nishant Kumar (R&D)



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We solicit your valuable suggestions and feedback to enhance this newsletter for future editions. You can share your thoughts and suggestions by writing to us at: hrd@arihantelectricals.com