

**PRAKASH**

Chemicals Agencies



# ILLUMINATION

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world of chemistry*





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The Global Bio-based Polymer Industry is experiencing remarkable growth, with production capacity expected to increase significantly over the next Five years. Driven by favorable Policy frameworks, growing investments in Regions such as China, Europe, the Middle East, and the US are boosting capacity expansion, particularly for Poly Lactic Acid (PLA) and other Bio-based materials.

As the world shifts towards sustainable and renewable materials, the Bio-based Polymer Industry is emerging as a critical player in the global effort to reduce reliance on Fossil-based Plastics. With a projected compound annual growth rate (CAGR) of 13-18% through 2029, Bio-based Polymers are outpacing their fossil-based counterparts in Production growth.

Firstly, Global capacity for Bio-based polymers will grow strongly over the next five years, much faster than for Fossil-based Polymers. For the 14 Bio-based Polymers presented-at the European Bio-plastics Conference (EBC December 2024 in Berlin), the expected compound annual growth rate (CAGR) between 2024 and 2029 is an impressive 18% – total capacity will increase to 5.7 million tonnes in 2029, with PLA accounting for the largest share.

The data was collected by the International Nova Expert Group on Bio-based Polymers. Taking into account all 17 commercially available Bio-based Polymers, the CAGR between 2024 and 2029 is 13%, compared to 2-3% for Fossil-based Polymers. This would mean that the capacity share of Bio-based Polymers in the total polymer market will increase from 1% today to around 1.5% in the coming years.

**Global Production Capacity of Bio based Polymers per Region 2024**

Country	Asia	North America	Europe	South America	Australia
Production capacity in percentage	59%	16%	13%	11%	<1%

Second, investments in new capacity will take place in China, Europe, the Middle East, and the US. Nature-works (US) is the current major producer of Lactic Acid (LA) and Poly Lactic Acid (PLA). The installed capacities of 198,000 tonnes/year for LA and 165,000 tonnes/year for PLA in the United States will be increased in 2025 with new installations in Thailand. Adding a total of 175,000 tonnes/year Asian production capacity to Nature-works North American capacity.

Thirdly, investment in Bio-based Polymer capacities is mainly driven by policy frameworks that create demand. The most recent example is the European Union’s Packaging and Packaging Waste Regulation (PPWR). The New Rules aim to reduce the generation of packaging waste by setting binding Recycling Targets, Restricting certain types of Single-Use Packaging and requiring Economic Operators to minimize the Packaging used.

**Mr. Nikunj Bariya**  
Sr. Executive (Marketing)  
*Editor for the Month*



**"A Heartbreaking Loss for Our Organization – Remembering Maulesh Pota,  
Whose Loyalty and Dedication was Unparalleled."**



**PCAPL was honored to participate in "ChemExpo 2025," held at BEC Mumbai on 29th–30th April, 2025.**



**Our MD, Mr. Dilip Shah (Trustee – Arpan Charitable Trust), participated in World Autism Awareness Day at Arpan and launched UDAAN, a project conceptualized through a collaboration between Asian Paints and the St+ART India Foundation.**



**Ms. Ritika Vanjani | Ms. Baby Unni  
Ms. Purvaja Dave | Mr. Zaid Sakarwala**

## Career Orientation Session Conducted at CH Vidhyalaya, Subhanpura in Collaboration with Intern



## Planting Seeds of Change: Earth Day Celebrations at our adopted Anganwadi Centers



## World Malaria Day Drive at Gorwa Gam in Coordination with VMC



## World Health Day celebration & awareness sessions conducted in collaboration with UPHSC Gorwa.





- India is set to dominate global Benzene capacity growth by 2030, accounting for nearly half of the world wide planned additions.
- Urea maker, Matix Fertilisers and Chemicals, has announced plans to enter the industrial and speciality chemicals sector with an investment of over Rs. 2,600-crore.
- Sun Pharmaceutical Industries said it has introduced a medication for the treatment of erosive Esophagitis of all grades.
- Adani Ports and Special Economic Zone Ltd. (APSEZ) has announced the commencement of operations at the Colombo West International Terminal (CWIT), located at the Port of Colombo, Sri Lanka.
- Asian Paints said it has approved an additional capital expenditure of Rs.690-crore for its upcoming manufacturing facility in Dahej, Gujarat for making Vinyl Acetate Ethylene Emulsion (VAE) and Vinyl Acetate Monomer (VAM).
- Bio-Aryavedic Naturals, a Kerala based startup, has introduced a bio-polymer product from tapioca adhesive for starching.
- Diversified chemicals conglomerate, DCM Shriram, has announced the commissioning of its second 300-tpd Flexi-Fuel Caustic Soda Flakes Plant at its Flagship Chemicals complex located in Jhagadia (Bharuch District, Gujarat).
- Gulbrandsen, a US-based maker of speciality polyethylene (PE) waxes and polymers, has announced plans to build additional PE wax manufacturing capacity and a new functional polymers plant at its site in Dahej, Gujarat.
- Gujarat Narmada Valley Fertilizers & Chemicals Ltd (GNFC) has announced a major achievement in its sustainability journey with the installation of Clariant's EnviCat N2 O-S catalyst at its Nitric Acid Plant.
- Sigachi Industries Ltd, the Hyderabad-based Pharma excipient specialist, has received Environmental Clearance (EC) from the State Environment Impact Assessment Authority (SEIAA), Gujarat for its upcoming greenfield manufacturing facility at Dahej SEZ, Bharuch, Gujarat.
- Deepak Nitrite Arm gets Board approval for Rs.3,500 Cr investment in new Phenol-IPA Project.
- US President Donald Trump has announced sweeping reciprocal tariffs of 27 percent on India. On April 3, the US announced reciprocal tariffs on over 180 countries, including a 10 percent universal tariff on all imports, effective April 5, 2025.
- Deepak Nitrite Ltd has informed that the Board of Directors of its wholly-owned subsidiary, Deepak Chem Tech Ltd (DCTL) has approved to undertake the previously announced project for manufacturing 300-kta of phenol, 185-kta of acetone and 100-kta of isopropyl alcohol
- Waaree Energies has inaugurated "India's largest" solar cell manufacturing unit – with 5.4-GW capacity at Chikhli in South Gujarat that can churn out 20 solar cells every second
- The Chief Minister of Gujarat, Mr. Bhupendra Patel, virtually inaugurated the Chlorotoluenes plant of Gujarat Alkalies and Chemicals Limited (GACL) on March 29.
- Thyssenkrupp Uhde, a Germany based chemical technology solution provider, has been awarded a contract by Gujarat Narmada Valley Fertilizers & Chemicals Ltd. (GNFC) for the construction of a Weak Nitric Acid(WNA-III) plant in Bharuch, Gujarat.
- Hyderabad-based Bharat Biotech International Ltd. (BBIL) has set up India's only vertically integrated, purpose-designed Cell & Gene Therapy (C&GT) infrastructure & viral vector production facility in Genome Valley at an investment of \$75-mn (around Rs. 640-crore).

Once upon a time, in a small village, there was a wise old Gardener named Mr. Saju. He was known far and wide for the magical plants he grew. He had the most beautiful flowers, trees, and fruits in the entire village. One day, he called his two young Apprentices, Raju and Mala, and gave them each a golden seed.

Mr. Saju told them “These are special seeds, and if you plant them well and take care of them, you will receive great reward.

Excited, Raju and Mala hurried back to their homes. Raju decided to plant his Seed in a spot where it would get plenty of Sunlight, but he did not bother with the quality of Soil or Water. He figured that the Sun would do most of the work.

Mala, on the other hand, carefully selected a rich patch of Soil, watered the Seed every day, and kept an eye on it. She also made sure to remove any weeds that might compete with the Plant.

Months passed, and Raju’s seed barely grew. He didn’t pay attention to it, thinking that the Seed would somehow grow by itself. Mala’s seed, however, flourished. A beautiful Tree grew, bearing golden fruits. The villagers marveled at it, and soon, Mira’s tree became the talk of the Town.

One day, Mr. Saju visited Mala’s garden. He smiled when he saw her Tree and said, “Mala, you have taken care of the seed with patience, love, and hard work. Because of your efforts, you have received a golden tree that will provide you with riches for many years.”

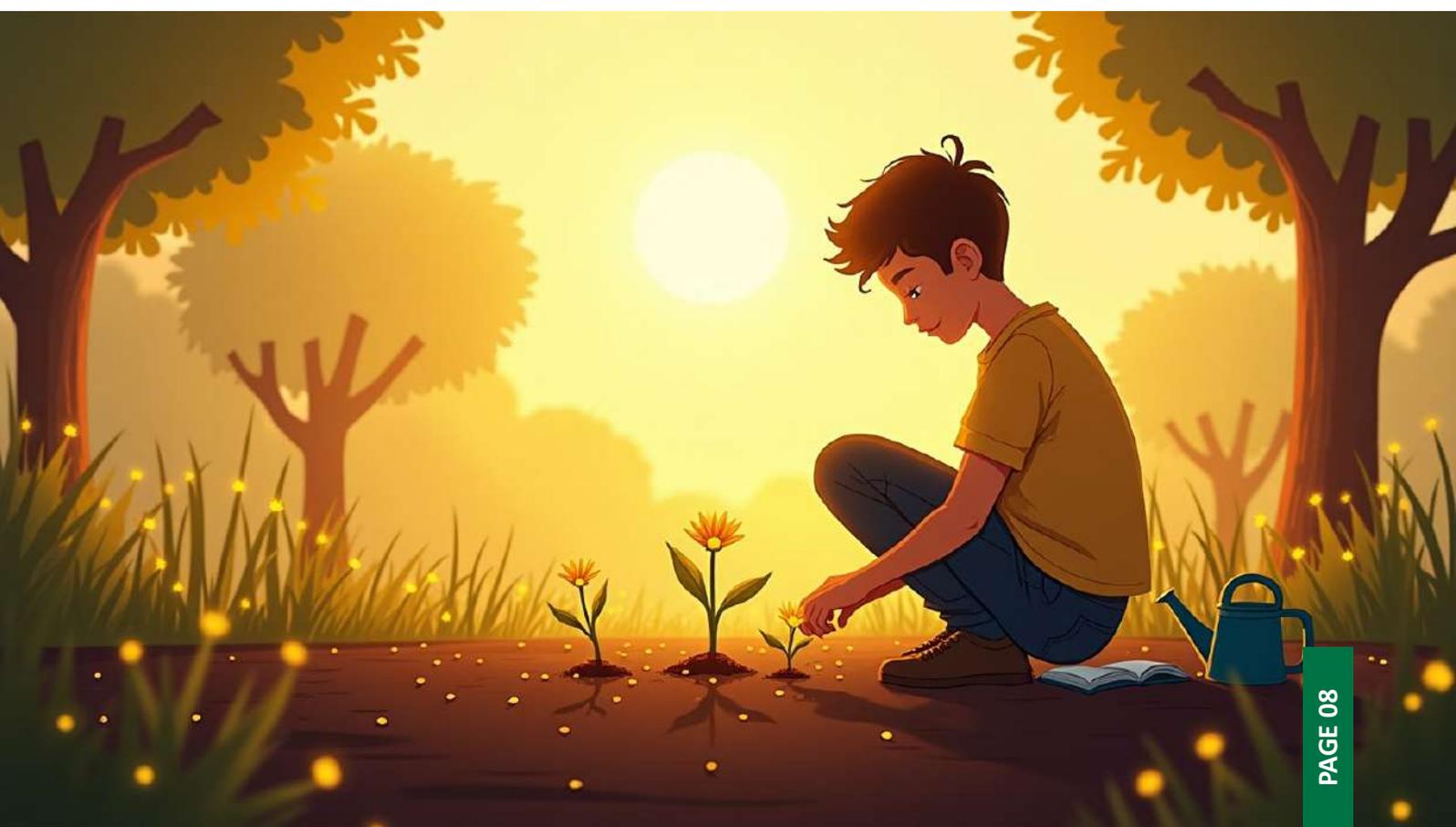
Thereafter he visited Raju. His seed had barely sprouted. Raju looked disappointed. “Why hasn’t my Seed grown like Mala’s?” he asked.

Mr. Saju replied, “Raju, seeds don’t grow by Sunlight alone. Just like success doesn’t come without hard work, care, and patience. You must give your full attention to what you want to grow, nurture it, and be consistent. Then only you will get the results.”

Raju realized his mistake and decided to take better care of the Plant. In time, his seed grew into a sturdy, golden tree as well.

## MORAL OF THE STORY

***“Hard work, Patience, and Care are the True Keys to Success. Just as a Plant needs proper Care to grow, our Dreams and Goals need Dedication and Consistent Effort to Flourish.”***



**Goal Setting is an essential element of successful Leadership and Management. Whether for Individuals, Teams, or the Organization as a whole, clear and actionable Goals provide direction, motivate performance, and help to measure progress. Smart framework is one of the most effective methods for setting clear and actionable Goals.**

**Once set a Goal, break it down into smaller, manageable tasks or milestones to allow your team to focus on specific actions and feel a sense of progress. It is very essential to ensure that individual and team Goals align with the company's broader Vision and Strategy. When goals are connected to the organization's mission, employees are more likely to stay motivated and committed.**

**Goal-Tracking System is very essential to ensure that Goals stay on track and adjustments can be made, if necessary. Utilize tools like Project Management Software, Spreadsheets, or Digital Dashboards to monitor individual and team progress.**

**When employees take ownership of their Goals, they are more likely to remain motivated and engaged. Encourage a sense of accountability by assigning clear responsibilities and making sure that everyone understands their role in achieving the Goal. Promote a culture of transparency where individuals regularly report progress and challenges.**

**Frequent feedback is vital in the goal-setting process. Recognize achievements, both big and small, to celebrate progress and keep morale high. Recognition reinforces positive behavior and motivates employees to keep pushing toward their Goals.**

**Once a goal is achieved, celebrate the success with Team. Take the time to reflect on what worked, what didn't, and how the process could be improved for future goal-setting efforts. Reflection helps to refine Strategies, develop better processes, and enhance the Team's overall Performance.**

**Goal setting is a powerful and essential Tool for managers aiming to drive Performance, enhance Team Collaboration, and to achieve Organizational success. Celebrating Progress and adjusting Goals as needed will help to maintain momentum and to motivate the Team. Most importantly, a successful goal-setting approach should always align with the Organization's overarching Vision, ensuring that both short-term achievements and long-term goals contribute to the company's overall success. By incorporating these goal-setting practices, managers will be better equipped to lead their Teams, nurture their Potential, and to deliver meaningful Results.**





# PUZZLE YOUR MIND

Q1- Nobody can hold me for more than Five minutes though I am light as feather. What am I?

Q2- I can typify Datas in a delicious way. What am I ?

Q3- 725 = 792457  
543 = 584736  
325 = 372659  
413 = ??

Q4- Fill the gaps with correct letters

- a a - b a - b b - a b - a a -

Q5- It can open but never close. What's it?



Answer to  
the Puzzles of  
Mar 2025

Q.1. 961

Q.2. PRIDE

- Q.3
- a) Sharing knowledge and kindness doesn't reduce your own
  - b) Help others whenever you can
  - c) Strong foundations protect you from life's challenges.
  - d) Small actions can lead to big consequences
  - e) Teamwork is necessary for success.

*“ Life is not about waiting for the Storm to pass, it's about learning to dance in the Rain. You can't control the Storms of Life, but you can control how you respond to them. ”*

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