

DRYCOTEC DIARIES

INSIGHTS | INNOVATION | INDUSTRY | IMPACT

JULY 2026
EDITION

Internal
Circulation
Only



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conducted on 5th June 2026
at the World of Concrete Exhibition.**



Also contains **technical articles**
and **news features**.


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Editors's Page : Memory & Technology (Four Phases)

Phase 1 : Back In Time

Those who lived in the 90s or worked in the 90s will very closely relate to me in this paragraph. For other who entered the work life in the mobile era will be amused. All phone numbers (Landlines) of my relatives, customers, and all important once were in my own brain memory. Plus I also purchased a digital diary (electronic Calculator with upgraded version) which had a memory of 125KB, just imagine, it could store about 500 telephone numbers, seriously, not joking. Most of us remembered all the roads & never ever had to refer to a map. We had Rock Solid Memory.

Phase 2 : Mobiles & Mineral Water

The end of 90s was a funny period. A bottle of Mineral water was something to show-off, it was carried to prove that you have some more money. Mobile certainly was like a Mercedes, where each call costed 17 rupees per minute. Computers could also make excel sheets for planning & organizing sales calls very systematically. Now phone numbers could be stored in your handset & drinking water out of the tap was suddenly disgusting. I think that this mineral water consumption was the first nail which attacked my memory.

Phase 3 : OTP & E-Commerce

When you receive an OTP, a very basic process takes place, we read the 6 digit no, put it in the temporary memory, apply & delete permanently. This act of permanently deleting those OTPs has cause a lot of damage. Forget memorizing numbers, now I don't remember under exactly which name I have stored them. For example, now I will store a Ram carpenter's number as "Ram Carpenter" & not just Ram, because the next time I want his services, I may not remember under what name I have stored.

Phase 4 : A.I.

Prompt – {Hey Meta, check what I am craving for & order that food immediately. Also check if the restaurants nearby are offering any good deal. Also check if my Food App has good points which can be reimbursed, remind the restaurant to make it oil free. Check which of my credit cards has low reward points & use that one to pay}. For those of you who are confused about these prompt commands which I am giving to my spectacles need to worry. Because you are still in the old era & will soon be outdated. Not just memory, but even my thinking is now going weak.

Technology at it's prime & Memory down the drain !!!

We would love to hear from you & write your feedback in this magazine. Just let me know them on mandar.chitre@batonconsultants.com

Dr. Mandar Chitre

**Editor & Founder
– Drycotec Diaries &
Drycotec Drymortar Association.**



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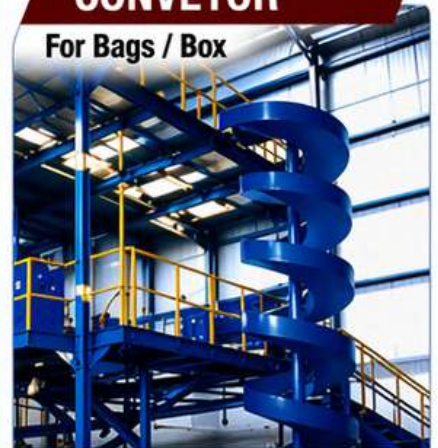
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IS 456:2000 – AMENDMENT No. 6

KEY UPDATES FOR CONSTRUCTION INDUSTRY

JUNE 2024

Bureau of Indian Standards (BIS) has issued Amendment No. 6 to IS 456:2000 bringing important changes for design, materials, durability and quality of concrete.

1



NEW CEMENT TYPES RECOGNIZED

- Composite Cement conforming to IS 16415
- Portland Calcined Clay Limestone Cement (PCCLC) conforming to IS 18189

2



COMPOSITE CEMENT APPROVED FOR REINFORCED CONCRETE

Can be used if:

- Clinker content $\geq 45\%$
- Fly ash content $\leq 25\%$
- Minimum 28-day compressive strength ≥ 43 MPa

3



RESTRICTION ON PCCLC

PCCLC shall not be used in underground structures or structural elements in contact with ground water at locations where temperatures are predominantly below 15°C for around 6 months.

4



UPDATED MINERAL ADMIXTURE PROVISIONS

- Fly ash alone: Max 35% of total cementitious material
- GGBS alone: Max 50% of total cementitious material
- OPC + Fly ash + GGBS combination: OPC $\geq 55\%$ and Fly ash $\leq 20\%$
- Ultrafine materials (silica fume, metakaolin, ultrafine GGBS) allowed with specified limits

5



CARBONATION RISK

Concrete containing mineral admixtures (such as fly ash and GGBS) higher than that recommended may increase carbonation in case of reinforced concrete.

6



ADMIXTURE RE-DOSING

- Quantity of admixture added to a mix shall be recorded.
- Re-dosing is not normally permitted.
- Additional admixture may be added at project site with mutual agreement between producer/supplier and purchaser/user to regain workability, if required.
- Producer/supplier shall assure quality and maintain record of quantity and time of addition.

7



ENTRAINED AIR REQUIREMENT UPDATED

Nominal Maximum Size Aggregate (mm)	Entrained Air Percentage
10 and 12.5	$6 \pm 1\%$

8



CEMENT CONTENT LIMIT

Cement content excluding mineral admixtures such as fly ash and GGBS shall not be used in excess of 450 kg/m³ unless special consideration is provided (risk of cracking due to drying shrinkage, early thermal cracking or alkali-silica reaction).

9



SULPHATE RESISTANCE (TABLE 4)

For Class 3 exposure:

- PPC (IS 1489 Part 1) with $\geq 25\%$ fly ash, or
- PSC (IS 455) with $\geq 50\%$ slag give acceptable sulphate resisting properties.

10



CHLORIDE + SULPHATE EXPOSURE

Use OPC with C_3A content 5–8%, or PSC (IS 455) with $\geq 50\%$ slag, or OPC blended with $\geq 50\%$ slag.

11



MIX DESIGN UPDATES

- When PCCLC (IS 18189) is used, maximum free water-cement ratio shall be reduced by 0.05.
- Maximum free water-cement ratio:
 - 0.60 for plain concrete
 - 0.50 for reinforced concrete
- Minimum cement content (at least):

Nominal Max. Size Aggregate (mm)	10	20	40
Cement Content (kg/m³)	420	380	350

12



ASSESSMENT OF IN-SITU CONCRETE STRENGTH

- If the grade of concrete is in doubt due to poor workmanship or cube test results, compressive strength test as per Clause 17.4 shall be carried out.
- Additionally, load test (see 17.6) may be carried out, where considered necessary.

ADDITIONAL IMPORTANT CHANGES



Bond stress for fusion bonded epoxy coated reinforcing bars (IS 13620): Design bond stress shall be 80% of corresponding values for deformed bars (IS 1786).



Emphasis on quality control, documentation, durability & sustainability in concrete construction.



New standards added in IS 456 reference list (Annex A): IS 13620, IS 16415, IS 16715, IS 18189



These amendments aim to enhance durability, strength, safety and sustainable construction practices across the industry.

KEY TAKEAWAYS FOR THE INDUSTRY

- ✓ Greater acceptance of new cements and SCMs for sustainable construction.
- ✓ Clear guidelines for mix design, admixtures and durability requirements.
- ✓ Focus on long-term performance, reduced risk of deterioration and better quality control.
- ✓ Encourages innovation and responsible use of resources.

“Quality construction today ensures a stronger, safer and more sustainable tomorrow.”



Er. Tomendra Chauhan

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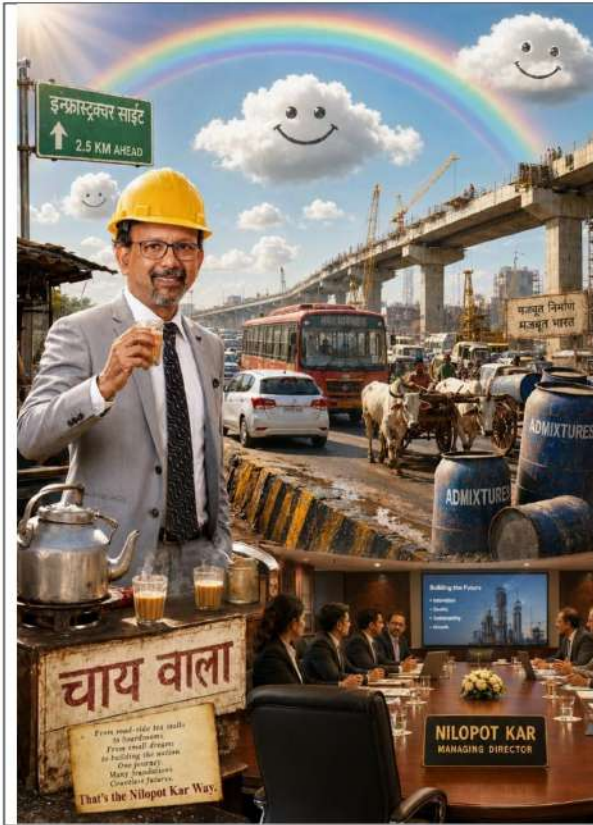
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My Management Diaries : "From Tapri Chai to Boardroom Strategy: A Great Unscripted Roadshow of the Extraordinary Life of an Ordinary Salesperson" – By Nilotpol Kar



One day, I must write a book on the life of a salesperson. Not the polished LinkedIn version. The real one. (Right now, as I sit on a pile of cartons, awaiting for the (un)packers...penned this one!).

Because whether you're the frontline executive, regional manager, national head, GM, MD, or CEO, we are all salespeople. We sell products, solutions, ideas, trust, vision, and sometimes even hope.

The Indian salesperson's office is rarely an office. It's a dusty highway to a proj site. A rattling taxi whose suspension retired years ago. A crowded flight delayed "just another 45min." A train compartment carrying equal parts dreams & questionable aromas. A roadside dhaba serving chai strong enough to restart a stalled bus. plan.

Targets. Collections. Forecasts. Presentations. Reviews. Pipelines. Overdues. More collections. Then collections again... because collections apparently deserve their own department in the dictionary!

There are site visits where your safety shoes collect more mud than your car tyres. There are customer meetings that begin at 11 a.m. and somehow conclude after dinner. There are hotel rooms that all look identical, and there are airports where you've spent so much time that security personnel greet you more warmly than some relatives.

The younger generation navigates this stage with digital dashboards and apps. The veterans still possess a sixth sense that no CRM can replicate. Both are chasing the same thing: growth. There are missed birthdays, postponed vacations, cancelled weekends, and those legendary calls that begin with, "Just five minutes..." and end forty-five minutes later.

Some days you win a crore-rupee order. Some days you lose one. Some days you discover the customer was "almost convinced" by three competitors simultaneously. Yet every morning, the journey begins again. Because behind every order is a relationship. Behind every collection is persistence. Behind every target is a family. And behind every salesperson is a remarkable story of resilience that rarely gets told.

To every salesperson travelling India's roads, rails, airports, factories, plants, warehouses, tunnels, bridges, and construction sites:

I see you. Respect. Empathy. Gratitude. **The road is long. The chai is hot. The target is waiting.**

My Cement Diaries : New Buying Parameter in Cement

Abinash Mishra writes a very interesting article : WHAT IF EVERY CEMENT BAG CAME WITH A CO₂ SCORE?. We check calories before buying food. We check fuel efficiency before buying cars. But when buying cement...We rarely check carbon impact. That's surprising. Because cement contributes nearly 7-8% of global CO₂ emissions. Imagine if every cement bag displayed:

- Low Carbon
- Medium Carbon
- High Carbon

Suddenly, sustainability becomes visible. And visible metrics change buying behaviour. The next cement war may not be fought only on strength, price & brand, but also on the carbon foot print. So will you change your buying pattern ???

WHAT IF EVERY CEMENT BAG CAME WITH A CO₂ SCORE?

BUILDING A GREENER TOMORROW
CEMENT
CO₂ SCORE
420
kg CO₂ / ton of cement

A LOWEST EMISSIONS
B
C
D
E

CO₂ LOWER EMISSIONS
✓ BETTER FUTURE
🌱 GREENER CHOICE

🌱 DRIVES TRANSPARENCY
📈 BUILDS ACCOUNTABILITY
🌱 EMPOWERS CHOICE
🌐 SUPPORTS CLIMATE GOALS
🎯 ACCELERATES LOW-CARBON FUTURE

CO₂ SCORE

**LOWER THE SCORE.
LOWER THE EMISSIONS.
BUILD A GREENER FUTURE.**

**BETTER TODAY
STRONGER
TOMORROW**

COATING DEFECTS & CAUSES

Coating defects are major cause of degradation and reduced performance.

IDENTIFY – UNDERSTAND – PREVENT – PROTECT

SAGGING



- Incorrect viscosity
- Over-thinning
- Excessive DFT (Dry Film Thickness)
- Slow solvent evaporation

BLISTERING



- Moisture in substrate
- Solvent trapped in paint film
- Incorrect drying
- Wrong primer
- Surface contamination
- High humidity conditions

PINHOLES



- Gas release (air or solvent)
- Porous or pitted surface
- Incorrect spray pressure
- Improper thinning
- High viscosity

CHALKING



- Poor quality resin
- UV exposure
- Over-thinning
- Excessive exposure to sunlight
- Improper surface preparation

PEELING



- Poor surface preparation
- Rust, oil or grease
- Low adhesion
- Incorrect primer selection
- Incompatible coating system
- Moisture in substrate

WRINKLING



- Too heavy (thick) coat
- Recoating before proper drying
- Solvent entrapment
- Improper solvent
- Substrate temperature too high or too low

PREVENTION TIPS



Proper surface preparation



Use correct product & coating system



Maintain proper viscosity & spray settings



Maintain recommended DFT (Dry Film Thickness)



Follow correct drying & recoat interval



Control temperature, humidity & ensure ventilation



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RIGHT PRODUCT
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RIGHT APPLICATION
Follow correct method and precautions



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The dry mix plant of 2030 will not simply be bigger, it will be smarter, more connected, and significantly more efficient.

Success will no longer be measured only by production output, but by how effectively manufacturers can optimize processes, reduce waste, maximize uptime, and deliver consistent quality.



At VT Corp, we believe the future belongs to manufacturers who embrace technology, automation, and innovation today.

1 THE RISE OF INTELLIGENT MANUFACTURING

The next generation of dry mix plants will be powered by Artificial Intelligence (AI), automation, and real-time analytics. Rather than simply executing programmed tasks, machines will continuously monitor operations, predict maintenance requirements & identify inefficiencies.

This is no longer a distant vision.
It is the direction in which manufacturing is rapidly moving.



Imagine a plant that can detect potential equipment failures before they occur

2 Connected Plants, Complete Visibility

By 2030, every major asset within a dry mix facility, from material handling systems and mixers to packers, palletizers, and dispatch operations will be connected through Industrial Internet of Things (IIoT) technologies.

Plant managers will have access to live operational data, machine performance metrics, inventory levels, and production reports from centralized dashboards. Whether managing one facility or multiple plants across different locations, decision-makers will have complete visibility and control from anywhere in the world.



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3 THE SMART ENGINE OF THE FUTURE PLANT

In the dry mix plant of 2030, packaging will be more than a filling operation, it will be a key driver of efficiency and profitability.

Intelligent packing systems will deliver precise filling, real-time performance monitoring, predictive maintenance, and seamless software integration, helping manufacturers reduce losses, maximize uptime, and improve productivity.



VT CORP CREATING SMARTER DRY MIX PLANTS FOR A NEW ERA

As the industry moves toward smarter and more connected manufacturing, VT Corp is helping customers stay ahead with advanced



Roto Packers



Valve Bag Filling Systems



Bulk Bagging Solutions



Conveying Equipment



Palletizing Systems



Dust Control Solutions



Plant Automation Technologies

The Future Starts Today

The dry mix plant of 2030 will be intelligent, automated, connected, and sustainable. Manufacturers that embrace these technologies today will lead the industry tomorrow.

VT Corp is proud to be at the forefront of this transformation – engineering smarter plants and shaping the future of dry mix manufacturing.



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Morbi's Ceramic Kilns Fire Up Again as Fuel Supplies Resume

SOME RELIEF Nearly all the units in the ceramic town of Gujarat have restarted ops, but the war has raised production costs & hit exports

DP Bhattacharya

Morbi: It has been almost a month

since Sukanya Nayak returned to her work, and the relief is visible on her face. The tiles factory labourer from Odisha was one of around 400,000 workers who had left this ceramic town in Gujarat, after the kilns turned cold in the wake of the Iran war that cut off natural gas supplies.

"We had to leave for home in March as the factory had shut down, but now that it has reopened, we are all back, and this is such a relief," she said—a sentiment shared by her colleagues from UP, Bihar, Jharkhand, Madhya Pradesh and West Bengal. From a total shutdown for two months between March and April due to the war and subsequent fuel

shortage, the Morbi ceramic industry has rapidly bounced back as the supply of piped natural gas and propane picked up.

"As of now, out of 750 units, 725 are working with PNG while 15 more have started with propane," said Hareesh Bopliya, former president of the Morbi Ceramic Association. "The war had hit us hard, but fortunately, the fuel supply got regularised really fast, and almost all the units have started working again," he added.

The war, however, has hit the industry where it hurts the most. "The production costs have escalated in a big way," Bopliya told ET. "The average increase in the cost of production is now almost 80%, leading to an escalation of cost for GVT and vitrified tiles to ₹8 per square foot across the board," said Mukesh Ugrta, owner of a ceram-



FILE PHOTO

mic unit in Morbi. For wall tiles, the wholesale price has gone up to ₹180 from ₹130, he added.

The war had led to another crisis for the industry, as it drastically reduced for sign export. Now with

an agreement reached between Iran and US to end the war, the factory owners are carefully watching the situation. "Yes, the news brings in a lot of relief, but the reality will only emerge in a

NEAR NORMAL

From a total shutdown for two months between March & April, the Morbi ceramic industry has bounced back as supply of PNG & propane rose

week or ten days time when everything will be clear," Bopliya said. Morbi accounts for about 90% of India's total ceramic production, and contributes roughly 13-18% to global ceramic demand, exporting to over 180 countries, including the US, UAE and various European nations. The annual turnover of the ceramic industry in the town is

around ₹60,000 crore, including about ₹20,000 crore worth of exports. "Our exports had almost halved," said Bopliya, adding that the industry is now making up for the shortfall from the domestic market. "When the industry had shut down for two months, our own stock as well as that of our dealers was exhausted completely, and now the growing demand for tiles has come as a blessing," he said. The ceramic industry in Morbi is making an extra turnover of almost ₹1,000 crore a month from the domestic market, which in a way is somewhat making up for the loss in exports, he added. "When the factory had shut down, we were reminded of the hard days of Covid times, as we all went home," said Vinay Kumar, a factory worker in a tiles factory in the town.



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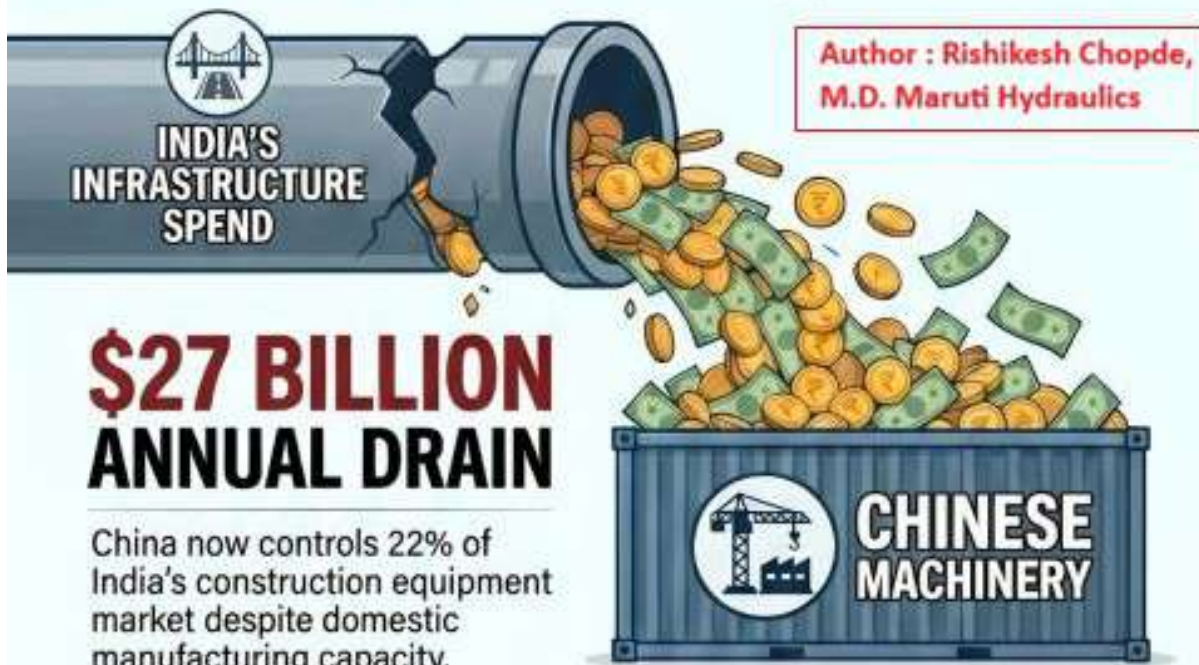
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CLOSE GST AND CERTIFICATION LOOPHOLES



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Javed Mansuri



What I Learned Managing Manufacturing Operations in Africa Over the Last 15 Years

After 15+ years in manufacturing across **India**, **Zambia**, and the **DRC**, I have learned that success in manufacturing is **not just about machines, production targets, or technology.**



THE BIGGEST LESSONS I'VE LEARNED ARE:

-  **01** | **People drive performance** more than machines.
-  **02** | **Consistent processes** outperform heroic efforts.
-  **03** | **Cost control** starts on the shop floor, not in reports.
-  **04** | **Quality** is built into the process, not inspected at the end.
-  **05** | **Safety** is a culture, not a checklist.
-  **06** | **Data-driven decisions** deliver sustainable results.
-  **07** | **Strong leadership** means solving problems before they become crises.
-  **08** | **Customer satisfaction** begins with operational excellence.

ACROSS DIVERSE PRODUCTS



AAC Blocks



Ready-Mix Concrete



Concrete Blocks



Pavers



Dry Mix Products



Other Building Materials



The fundamentals remain the same: **discipline, teamwork, continuous improvement, and accountability.**



The manufacturing landscape in Africa presents **unique challenges**, but it also offers **tremendous opportunities** for **innovation, growth, and value creation.**



INNOVATION



GROWTH



VALUE CREATION

#Manufacturing #OperationsManagement #Leadership #OperationalExcellence #ContinuousImprovement
#Africa #ConstructionMaterials #RMC #Concrete #ProductionManagement #GeneralManager #IndustrialLeadership



— Javed Mansuri

General Manager | Manufacturing Operations | Africa (DRC & Zambia)

My News Diaries

THE RISING COST – A major possible set back ???

Companies & Economy

THE ECONOMIC TIMES | MUMBAI | THURSDAY | 28 MAY 2026 | WWW.ECONOMICTIMES.COM

Builders Face 25% Spike in Construction Costs

Supply disruptions, labour migration and higher raw material prices threaten project viability across the real estate sector

Falzan Halder

New Delhi: Construction costs have risen more than 25% since the start of global conflicts, driven by supply chain disruptions, labour migration, higher raw material prices and shortages of key materials, executives at top builders said.

"Energy costs, aluminium, glass have gone up, labour has become expensive, availability of materials has become a bit of a challenge," Vikas Oberoi, chairman and managing director, Oberoi Realty, told investors during the FY26 earnings call. "These are stressing us out. But it's a problem for the entire industry...but now it's slowly starting to hurt you in a way."

Of course, the crises would be used

by the leaders to leap ahead of the relative stragglers in the industry, experts said.

"This phase could become a turning point for the sector, prompting developers to strengthen operational resilience and adopt more future-ready development strategies," said Parvinder Singh, CEO, Trident Realty.

Rising costs have put a question mark on the commercial viability of several projects and made delivery timelines more challenging.

"Construction costs have risen by over 25% since the onset of hostilities—a pressure that is meaningful and warrants attention. However, the organised sector today is far better equipped to navigate such challenges than it has been in previous cycles," said Shekhar Patel, presi-



dent, CREDAI. "The more immediate concern is not just cost escalation but availability. Certain critical materials are not accessible in the market regardless of price—a situation the sector has rarely encountered." Non-availability of critical materials is causing timelines to stretch.

"When procurement becomes a constraint beyond pricing, project timelines naturally come under stress," Patelsaid.

CREDAI has engaged with the Union Housing Ministry, seeking appropriate RERA timeline relief to protect both developers and

homebuyers.

"The biggest challenge is to get labour. Because of the NGT ban and then elections, there has been a shortage and we are trying to mitigate it by using technology," said Pradeep Kumar Aggarwal, chairman and whole-time director, Signature Global.

Gaurav Pandey, managing director and CEO, Godrej Properties, told investors the cost impact would be between 5% and 6%. "I think more fundamental is the supply side shock.... If the (situation in the Gulf) continues for 6-12 months, then I think that's something which has different economic risks than only sector specific," Pandey said.

The shortage of construction chemicals has become a major concern, with developers facing delays in sourcing critical products.

BUILDERS FACE 25% SPIKE IN CONSTRUCTION COSTS

Supply disruptions, labour migration and higher raw material prices threaten project viability across the real estate sector.

WHY COSTS ARE RISING



Global conflicts disrupt raw material supplies



Labour migration shortages and higher wages



Surging prices of steel, cement, aluminium & copper



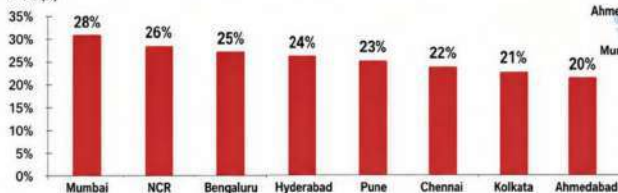
Project delays increase interest burden & overheads



Tight liquidity & higher financing costs

CITY-WISE IMPACT: INCREASE IN CONSTRUCTION COSTS

Increase in Construction Costs (%)



Key Cost Drivers (Typical Impact)



Steel

↑ 18-30%



Cement

↑ 10-15%



Aluminium

↑ 15-25%



Copper

↑ 20-35%



Labour

↑ 15-25%



Logistics

↑ 10-20%

Note: Impact varies by project type, location and procurement strategy

Source: Industry reports, CREDAI, NAREDCO, Knight Frank, ANAROCK

Data as of May 2026



KEY TAKEAWAYS

- Construction costs have risen 20-30% across major cities.
- Supply chain disruptions and labour shortages are the biggest challenges.
- Project delays due to cost escalation affect viability and homebuyer confidence.
- Developers are renegotiating contracts, adopting cost controls and sourcing alternatives.
- Policy support on liquidity, credit and infrastructure can help stabilize the sector.



Addressing cost pressures today is critical to ensuring affordable housing, timely delivery and sustained growth of India's real estate sector.



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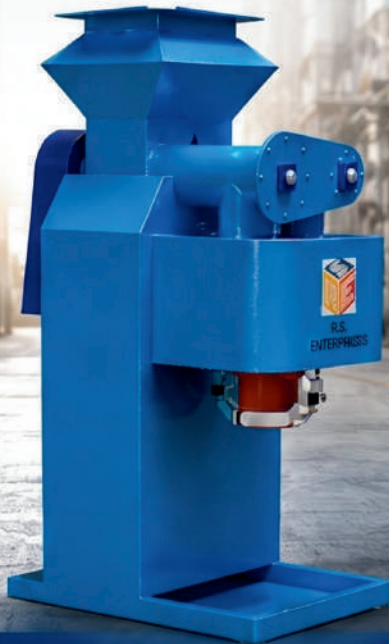
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NEW PRODUCT LAUNCH 2026

SINGLE HEAD TWIN SCREW PACKER

Precision Packing for Modern Industries

Designed for accurate filling of free-flowing and non-free-flowing powdered materials.



UPTO
240
BAGS/HOUR



20 - 50KG
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CAPACITY



LOAD CELL
BASED
ACCURACY



TWIN SCREW
FEEDING
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WHY CHOOSE THIS MACHINE?



HIGH ACCURACY WEIGHING

Advanced electronic load cell system ensures accurate and repeatable filling performance.



TWIN SCREW FEEDING SYSTEM

Specially designed twin screws provide smooth and controlled product flow for both free-flowing and difficult powders.



IMPROVED PRODUCTIVITY

Capable of delivering up to 240 bags per hour depending on material characteristics.



REDUCED PRODUCT LOSS

Accurate filling minimises give away and helps improve profitability.



SMART DIGITAL CONTROLS

Microprocessor-based controller with clear digital display for easy operation.



HEAVY DUTY CONSTRUCTION

Engineered with rugged industrial frame for long service life.



TECHNICAL HIGHLIGHTS

Filling Capacity	20 -50 kg bags
Output	120 - 240 bags/hr
Feeding System	Twin Screw Feeder
Weighing System	Electronic Load Cell
Accuracy	±50 to 75 gm
Feeding System	Twin Screw Feeder
Power Requirement	3 Phase, 415V AC
Air Requirement	10 CFM @ 100 PSI
Suitable for	Open Mouth Bags

APPLICATIONS

SUITABLE FOR

- ✓ Tile Adhesive
- ✓ Dry Mix Mortar
- ✓ Wall Putty
- ✓ Construction Chemicals
- ✓ Minerals
- ✓ Fertilizers
- ✓ Chemical Powders
- ✓ Industrial Powder Products

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We specialize in advanced packaging and material handling solutions designed to improve efficiency, accuracy, and productivity across industries.

OUR PRODUCT RANGE

- Open Mouth Packers
- Valve Type Packers
- Twin Screw Packer
- Weigh Feeders
- Mini Silos (Upto 5 Tons)
- Material Handling Systems
- Turnkey Drymix Mortar Plant



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SCAN. CONNECT. GROW.



CAPA (Corrective & Preventive Action)

A systematic approach to identify, investigate & eliminate the root cause of problems and prevent their recurrence.

1 CORRECTIVE ACTION

Action taken to eliminate the root cause of a **detected problem**.



2 PREVENTIVE ACTION

Action taken to eliminate the root cause of a **potential problem** (before it occurs).



CAPA PROCESS FLOW



WHY CAPA IS IMPORTANT ?

- ★ Reduces defect recurrence
- ★ Improves process stability
- ★ Enhances customer satisfaction
- ★ Ensures compliance with standards (ISO, IATF, etc.)
- ★ Promotes a culture of continuous improvement

COMMON MISTAKES



- ✗ Treating symptoms, not root causes
- ✗ Weak or unclear action plans
- ✗ Skipping effectiveness checks
- ✗ Poor documentation



KEY TAKEAWAY

A strong CAPA system doesn't just fix issues – it builds a culture of **proactive quality** and **continuous improvement**.

REMEMBER:



"Fix it right, fix it for good, and make it better!"



Shamshad Alam

Head – QA/QC



QUALITY ASSURANCE



QUALITY CONTROL



BUILDING EXCELLENCE

TRUSTED BY 30+ LEADING CORPORATE CUSTOMERS



Trusted Partnerships

For years, we have been a reliable partner to more than 30 leading corporates who trust our commitment to quality and consistency. Each collaboration reflects our dedication to delivering solutions that meet the highest performance standards in the industry. This trust has been built through a strong focus on reliability, product excellence, and customer satisfaction.

Our corporate clients come from diverse industry verticals, each with unique needs and expectations. By understanding these requirements in depth, we provide tailored solutions that not only meet but exceed their operational goals. Our ability to adapt, innovate, and deliver on time has made us a preferred choice across the construction and building materials landscape.

As we continue to grow, we remain committed to strengthening these relationships through continuous improvement and service excellence. The trust of our 30+ corporate partners inspires us to expand our capabilities, enhance our product range, and keep raising the bar in every project we undertake. Their confidence fuels our mission to build long-term value and set new benchmarks in the industry.



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My Operations Diaries : Discipline @ Work

MOST DRYMIX PLANTS DON'T HAVE A CAPACITY PROBLEM. THEY HAVE A PROCESS DISCIPLINE PROBLEM.



This article is written by Sreenivas GR, a top industry professional who has global experience and an authority in Drymix plants, products & business turnarounds.

Why Most Drymix Plants Never Reach Their True Capacity ???

Over the years across India & GCC, I've seen plants operating at barely 60 -70% efficiency while management believes capacity expansion is the solution.

Most drymix plants do not have a machinery problem. They have a systems problem.

The real bottlenecks are usually

- Inconsistent raw material moisture control
- Poor aggregate engineering
- Weak preventive maintenance culture
- Packaging bottlenecks
- Improper production planning
- Lack of shift-level accountability
- Reactive troubleshooting instead of process discipline

A well-optimized 10 TPH line can outperform a badly managed 20 TPH line. Operational excellence is not about buying bigger machines. It is about building repeatable systems.

SELECTING A DRYMORTAR PLANT



Plan Smart.
Build Right.
Grow Sustainably.

Make the Right Choice. Build for Success.

A well-planned drymortar plant ensures consistent quality, optimized costs and long-term profitability. Focus on these 5 key factors before you invest.

01



MARKET SIZE

- Estimation of size gives forecast working & therefore determines the capacity.
- Do a realistic demand assessment for the next 5–7 years.



02



PRODUCT PLANNING

- Select products which are sold in the radius of 200 KM.
- Design plant circuit & equipment to suit the selected product mix.



03



SUPPLY CHAIN

- Select distance of high volume raw materials (binders, fillers, sand, additives).
- Decide plant location and area & type of storage accordingly.



04



GO-TO-MARKET

- Understand distribution strategy and customer reach.
- Helps to decide how much finished goods storage is required.



05



AUTOMATION LEVEL

- Decide automation level based on availability & cost of labour.
- Choose semi-automatic or fully automatic system.



BUYER CHECKLIST

- ✓ Market size analyzed
- ✓ Product mix finalized
- ✓ Raw material sources mapped
- ✓ Distribution & go-to-market planned
- ✓ Automation level decided
- ✓ Room for future expansion ensured
- ✓ Seller reference & after-sales checked



CHECK THE SELLER, NOT JUST THE PLANT



Carefully study the seller's reference plants.



Speak to a few customers about supply reliability & after sales support.

PLAN FOR FUTURE EXPANSION



Always keep adequate space for future expansions and new product additions.



FOR MORE INFORMATION & PROFESSIONAL SUPPORT, PLEASE CONTACT

mandar.chitre@batonconsultants.com



RIGHT PLANT



RIGHT QUALITY



RIGHT COST



RIGHT FUTURE



GROUP CELEBRATING

83
YEARS

1942-2025

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My Standards Diaries: Simplify The EN 12004

EN 12004

UNDERSTANDING THE INTERNATIONAL STANDARD FOR TILE ADHESIVES

THE GLOBAL LANGUAGE OF TILE ADHESIVE PERFORMANCE

WHAT IS EN 12004?

EN 12004 is the European Standard that classifies tile adhesives based on key performance parameters. It enables architects, contractors and manufacturers to select the correct adhesive for each application.



BOND STRENGTH



SLIP RESISTANCE



OPEN TIME



FLEXIBILITY



DEFORMATION CAPABILITY



SPECIAL PERFORMANCE

DECODING THE EN 12004 CODE

EXAMPLE:

C 2 T E S1

CEMENTITIOUS ADHESIVE

IMPROVED ADHESION

REDUCED SLIP

EXTENDED OPEN TIME

DEFORMABLE

1 ADHESIVE TYPE

C

Cementitious Adhesive
Most common tile adhesive

D

Dispersion Adhesive
Ready-mixed wall adhesives

R

Reaction Resin Adhesive
Epoxy & chemical resistant systems

SIGNIFICANCE

Determines the basic chemistry of the adhesive.

2 ADHESION CLASS

C1 = Normal Adhesive
Minimum Tensile Adhesion $\geq 0.5 \text{ N/mm}^2$

Suitable for:
✓ Ceramic Tiles
✓ Interior Applications

C2 = Improved Adhesive
Minimum Tensile Adhesion $\geq 1.0 \text{ N/mm}^2$

Suitable for:
✓ Porcelain Tiles
✓ Large Format Tiles
✓ External Facades
✓ Heavy Duty Applications

SIGNIFICANCE

Higher number = Stronger bond.

3 SPECIAL PERFORMANCE CHARACTERISTICS



T = REDUCED SLIP

Tile Slip $\leq 0.5 \text{ mm}$
Ideal for:
✓ Vertical Wall Applications
✓ Large Format Wall Tiles

BENEFIT
Tiles stay in position after installation.



E = EXTENDED OPEN TIME

Adhesion $\geq 0.5 \text{ N/mm}^2$ after 30 minutes

BENEFIT
✓ Larger working area
✓ Better installation productivity
✓ Useful in hot climates



F = FAST SETTING

Rapid strength development.

BENEFIT
✓ Early grouting
✓ Faster project completion

SIGNIFICANCE

These characteristics enhance workability and installation performance.

4 DEFORMATION CLASS

S1 = DEFORMABLE

Transverse deformation: $2.5 \text{ mm} - 5 \text{ mm}$

Recommended for:
✓ Floor Heating Systems
✓ Balconies
✓ Large Format Tiles

S2 = HIGHLY DEFORMABLE

Transverse deformation: $\geq 5 \text{ mm}$

Recommended for:
✓ High Movement Structures
✓ Facades
✓ Metal Substrates

SIGNIFICANCE

Higher flexibility = Better crack resistance.

QUICK SELECTION GUIDE

APPLICATION	RECOMMENDED GRADE
Standard Ceramic Tiles	C1T
Porcelain Tiles	C2TE
Large Format Tiles	C2TES1
Heated Floors	C2TES1
Exterior Facades	C2TES1 / C2TES2
Swimming Pools	C2TES1
Industrial Areas	R2

MOST COMMON GLOBAL SPECIFICATION



C2TES1

WHY IT IS POPULAR

- ✓ High Bond Strength
- ✓ Non-Slip Performance
- ✓ Extended Open Time
- ✓ Flexible & Crack Resistant
- ✓ Suitable for Most Modern Tile Applications

KEY MESSAGE

The EN 12004 code is not just a product label—it is a performance guarantee. Understanding C, D, R, C1, C2, T, E, F, S1 and S2 helps engineers, architects and applicators select the right adhesive for long-term tile durability and failure-free installations.

BUILT FOR PERFORMANCE. TRUSTED WORLDWIDE.



STRONG BOND
Long lasting performance



NO SLIP
Keeps tiles firmly in place



LONGER OPEN TIME
More time, better results



HIGH FLEXIBILITY
Absorbs movement, prevents cracks



ALL CONDITIONS
For interior, exterior & wet areas

EN 12004

THE STANDARD FOR BETTER INSTALLATIONS



JK GROUP

QUALITY MINERALS,
STRONGER INDUSTRIES

YOUR TRUSTED INDUSTRIAL MINERAL PARTNER

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JK Group is a leading manufacturer and supplier of high-quality industrial minerals. With advanced processing, strict quality control and customized grading, we deliver consistent performance for a wide range of industries.



OUR PRODUCT RANGE



DOLOMITE POWDER

- ✓ High Purity
- ✓ Fine & Controlled Grading
- ✓ Consistent Quality

APPLICATIONS

- Steel & Foundry
- Glass & Ceramics
- Paints, Rubber & Plastics
- Agriculture & Fertilizers
- Construction



DOLOMITE SAND

- ✓ High Strength
- ✓ Thermal Stability
- ✓ Uniform Quality

APPLICATIONS

- Foundry
- Construction
- Ceramics
- Refractories
- Moulding Sand



CHINA CLAY (KAOLIN)

- ✓ Excellent Plasticity
- ✓ Smooth Surface Finish
- ✓ Fine Particle Dispersion

APPLICATIONS

- Ceramics
- Paper
- Paints
- Rubber
- Construction Chemicals
- Fiberglass
- Adhesives



CALCINED CHINA CLAY

- ✓ High Whiteness & Brightness
- ✓ Improved Opacity
- ✓ Enhanced Hardness

APPLICATIONS

- Paper
- Paints & Coatings
- Plastics
- Ceramics
- Refractories
- Adhesives
- Cable & Wire



WHITING POWDER

- ✓ Cost Effective Filler
- ✓ Smooth Texture
- ✓ Easy Dispersion

APPLICATIONS

- Paper
- Paints
- Construction
- Plastics
- Rubber
- Ceramics

WHY CHOOSE JK GROUP?



PREMIUM QUALITY

High purity raw materials



CUSTOMIZED SOLUTIONS

Tailored grades & sizes as per requirement



CONSISTENT PERFORMANCE

Reliable quality with every supply



TIMELY DELIVERY

On-time dispatch & nationwide supply



BULK SUPPLY CAPABILITY

Large inventory for bulk orders



COMPETITIVE PRICING

Best quality at best price

INDUSTRIES WE SERVE



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FOUNDRY



CONSTRUCTION



PAINTS &
COATINGS



CERAMICS



PAPER



RUBBER &
PLASTICS



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*Delivering Quality Minerals
for Industrial Excellence*

VAE POWDER- POLENE® EVP603



- ❑ Facing performance inconsistencies in supply of RDP ???
- ❑ Problems of supply of RDP from small companies ???
- ❑ Looking for a stable, consistent, large & reliable source of RDP ???

Your Search Ends, Introducing

TPI Polene Public Co Ltd, Thailand



About Us

Founded in 1987, TPI Polene is a major producer of Cement, Petrochemicals and Dry Mortars, meeting international standards, ISO, ASTM, and EU certifications. The Company has reached a turnover of 1 Billion USD for the year 2024

The company is using their RDP for their own Dry Mortar Products, which are market leaders in Asia. The excess production is on sale for other manufacturers across the world.

Our Product POLENE® EVP603

It's a white VAE Re-dispersible powder manufactured from Vinyl Acetate - Ethylene copolymer emulsion via a spray dry process. Its readily re-dispersible in water and forms stable emulsion.

Improves adhesion, flexural strength, workability of modified compounds. It is compatible with mortar additives, used to achieve special processing characteristics. It contains fine mineral filler as anti-caking agent and filler. It is free of solvents & plasticizers.

Product Application of POLENE® EVP603

Used for blending with inorganic binders such as cement, gypsum or used as a sole binder for the construction adhesive applications. Typical application : Tile adhesives & Wall putty.

India Representative:

For Sample Request & Product Inquires, contact : mandar.sudrik@lrc-india.com



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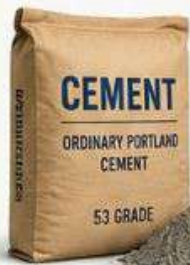
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CEMENT TESTS

PERFORMABLE AT SITE LABORATORIES

AS PER IS CODES



TEST TODAY

BUILD BETTER

BUILD FOR TOMORROW



01 FINENESS TEST

Purpose:

Determines the fineness of cement.

Apparatus:

90 μ IS Sieve,
Weighing Balance



IS 4031 (Part 1)
Fineness Test

02 STANDARD CONSISTENCY TEST

Purpose:

Determines the water required to produce standard consistency paste.

Apparatus:

Vicat Apparatus
(with Plunger)



IS 4031 (Part 4)
Consistency Test

03 INITIAL & FINAL SETTING TIME TEST

Purpose:

Determines the initial and final setting times of cement.

Apparatus:

Vicat Apparatus
(with Setting Needles),
Stopwatch



IS 4031 (Part 5)
Setting Time Test

04 SOUNDNESS TEST

Purpose:

Checks the soundness and volumetric stability of cement.

Apparatus:

Le Chatelier Mould,
Glass Plates,
Water Bath



IS 4031 (Part 3)
Soundness Test

05 COMPRESSIVE STRENGTH TEST

Purpose:

Determines the compressive strength of cement mortar cubes at 3, 7 & 28 days.

Apparatus:

Cube Moulds (70.6 mm),
Mortar Mixer, CTM,
Curing Tank



IS 4031 (Part 6)
Compressive Strength Test

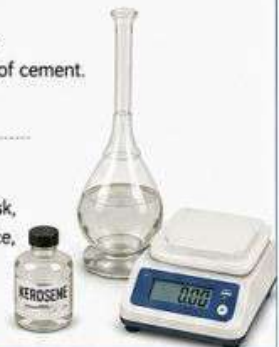
06 SPECIFIC GRAVITY TEST

Purpose:

Determines the specific gravity of cement.

Apparatus:

Le Chatelier Flask,
Weighing Balance,
Kerosene



IS 4031 (Part 11)
Specific Gravity Test

QUICK FIELD CHECKS (VISUAL)

- Uniform grey colour with slight greenish shade
- Feels smooth when rubbed between fingers
- Free from lumps
- Cool feeling when hand is inserted in the bag
- Small quantity sprinkled on water should sink gradually

“

Quality control
is not an expense,
it's an investment in
strength, safety and
long-term performance.

”



WHY THESE TESTS MATTER?

- ✓ Ensure consistent quality of cement
- ✓ Verify compliance with specifications
- ✓ Improve concrete strength & durability
- ✓ Prevent defects and failures
- ✓ Build structures that stand the test of time



Tarun Raghuwanshi

CIVIL ENGINEER | QUALITY ENTHUSIAST | CONTINUOUS LEARNER

Passionate about quality, precision and excellence in construction.

Building better today for a stronger tomorrow!





WATERPROOFING SYSTEM DESIGN

BASED ON 'TIME OF EXPOSURE' TO WATER / MOISTURE



SHORT TIME CONTACT

- Vertical Walls
- Sloping Roofs
- Sloping Chajjas



NEW CONSTRUCTION

UV STABLE HIGH SHEEN
WATERPROOFING PAINT



OLD CONSTRUCTION

UV STABLE HIGH SHEEN
WATERPROOFING PAINT



LONG TIME CONTACT

- Roof Slabs
- Podium Slabs
- Landscapes



NEW CONSTRUCTION

WATERPROOFING MEMBRANE
+ BARRIER LAYER



OLD CONSTRUCTION

WATERPROOFING MEMBRANE
(UV & ABRASION RESISTANT)



CONTINUOUS CONTACT

- Wash / Wet Rooms
- Swimming Pools / Fountains
- Overhead / Underground Tank
- Roof-top Gardens / Planters
- Basement - Between PCC & RCC
- Retaining Wall



NEW CONSTRUCTION

WATERPROOFING MEMBRANE
+ BARRIER LAYER



OLD CONSTRUCTION

LEAKAGE SEALING &
REPAIR TECHNIQUES



LONG LASTING
PROTECTION



WATER & MOISTURE
RESISTANT



UV & WEATHER
RESISTANT



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SOLUTIONS



EXPERT
APPLICATION



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- Starch Ether



- Additives
- Instruments



- Cellulose Fibre



- Pigment Dispersion



- Gold Bronze Powder



- Cyclohexane / Cyclohexanone
- MEK Oxime



- Acrylic Polyol & SCA
- Castor Oil based Polyol
- Unsaturated Polyester Resin
- Alkyd & Polyester Polyol



- Solvent Dyes



- Carbon Black



- Biocides



- CAB/ CAP/ CA/ Solus
- CPO
- Polyester Resin
- Phthalate Free Plasticizer



- Fumed Silica
- Crosslinkers
- Organosilane



- Speciality Fillers



- Photoinitiators
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- Synthetic Iron Oxide



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- VCVA Co-polymer



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- Dispersible Polymer Powders
- Silicone Emulsions & Water repellent
- Silicone Resin



- VCVA Terpolymers



- TPA Resin



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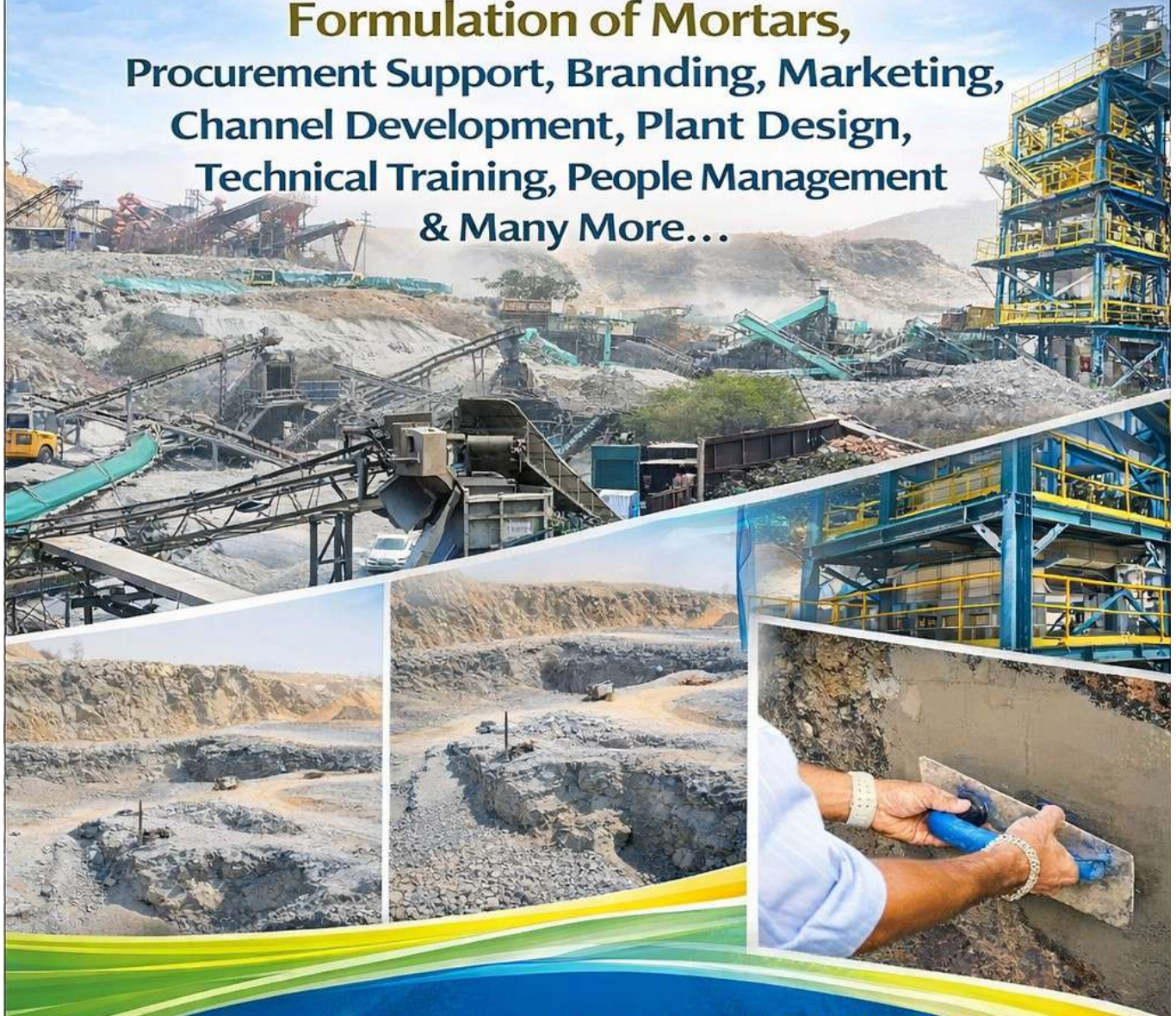
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& Many More...**



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