



Scan Me

SUGAR MILL SPECIALITY CHEMICALS

*Complete Process Chemical Solutions
for Efficient, Safe & Sustainable
Sugar Manufacturing*



PROTECT
Every Stage



OPTIMIZE
Performance



ENSURE
Quality



SUSTAIN
Responsibly



**From Cane Juice to Crystal Sugar —
We Protect Every Stage**

CPAS-1.0

coeus
Polylabs Pvt. Ltd.

FOOD-GRADE ANTISCALANT

*Triple-Action Scale Control for
Multiple-Effect Evaporators*

“ Every micron of scale is a calorie lost.
CPAS-1.0 keeps your evaporator
tubes clean, campaign-long. ”

WHY EVAPORATOR SCALE IS YOUR MILL'S BIGGEST PROFIT THREAT

As clarified juice concentrates from 15° Brix to 65° Brix syrup across five effects, mineral salts calcium oxalate (CaOx), (CaCO_3), (CaSO_4), and silica exceed their solubility limits and precipitate on calandria tube walls. A 1 mm CaOx layer reduces heat transfer by 15–22%, directly increasing bagasse consumption. For a 2,500 TCD mill operating for 150 days, uncontrolled evaporator scaling can cause ₹2.5–4.5 crore in compounded fuel, acid, labour, and production losses.



21+DAYS
Between CIP Cycles



97%+
CaOx Inhibition
Efficiency



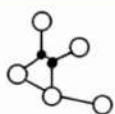
150°C
Thermal Stability
Ceiling



70%
Reduction in
Acid Cleaning

TRIPLE-ACTION POLYMER MECHANISM

01



Threshold Inhibition

Polyacrylate chains absorb onto pre-nucleation mineral clusters at sub-stoichiometric concentrations (2–20 ppm), disrupting crystal formation before it begins. Prevents scale inhibition in 1st and 2nd effects, where supersaturation is highest.

02



Crystal Lattice Modification

Polymer chains incorporate into CaOx and CaCO_3 crystal lattices, producing distorted soft polymorphs (vaterite, not calcite). Deposits remain loose and non-adherent, allowing removal during blowdown without acid cleaning.

03



Electrostatic Dispersion

Branched sulfonated groups envelop suspended particulates, creating a repulsive electrostatic barrier (zeta potential -35 to -55 mV). This prevents agglomeration on heat-transfer surfaces throughout all five effects simultaneously.

TECHNICAL SPECIFICATIONS – CPAS-1.0

Parameter	Specification
Chemical Class	Carboxylic sulfonated terpolymer — branched 3D architecture, food-grade
Appearance	Clear to pale yellow homogeneous liquid
Specific Gravity @ 25°C	upto : $1.30 \pm 0.02 \text{ g/cm}^3$
pH (as supplied)	7.0 – 7.5
Active Polymer Content	46 - 55%
Thermal Stability	No degradation at 150°C / 72 hrs (TGA validated)
Phosphorus Content	< 1 ppm per batch (ICP-OES verified)
MEE Dosage	15–20 ppm on mixed juice feed
Juice Heater Dosage	10–15 ppm on raw juice inlet
Vacuum Pan Dosage	5–10 ppm on feed syrup (diluted solution)

ADVANCED POLYMER CHEMISTRY. MAXIMUM MILL PERFORMANCE.

Engineered in India. Trusted by Sugar Mills Across India

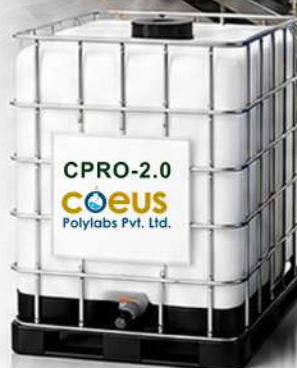
CPRO-2.0

PRECISION RO MEMBRANE ANTISCALANT

Protecting Polyamide TFC Membranes



**Protect RO Membranes.
Maximise Recovery.
Reduce Replacement Cost.**



90%
Recovery Rate
Achievable



5-7 YEARS
Extended
Membrane Life



320 mg/L
Silica (SiO₂)
Tolerance



2-10 ppm
Ultra-low
Dosage Range

WHY RO MEMBRANES FAIL

- Calcium Carbonate Scaling
- Silica Fouling
- Sulphate Deposits
- Concentration Polarization
- Organic Fouling
- Biofouling

CPRO-2.0 PREVENTS

- Scale Formation
- Membrane Fouling
- Flux Reduction
- Premature Replacement
- Higher Recovery
- Lower Operating Cost

HOW CPRO-2.0 WORKS



TECHNICAL SPECIFICATIONS – CPRO-2.0

Parameter	Specification
Chemical Class	Phosphino-polyacrylate terpolymer — ultra-low MW, membrane-grade
Molecular Weight (Mw)	~4,000 Da • PDI 2.0–3.5 (membrane-optimised)
Specific Gravity @ 25°C	upto : 1.30 ± 0.02 g/cm ³
pH (as supplied)	7.0 – 7.5
Active Polymer Content	46 ± 1%
Thermal Stability	No degradation at 150°C / 72 hrs (TGA validated)
Silica Control	Up to 320 mg/L SiO ₂ in concentrate stream
LSI Tolerance	Up to +3.0 (vs +0.5–1.5 for conventional products)
Membrane Compatibility	100% polyamide TFC — Toray, Filmtec, Hydranautics, LG, Koch
Appearance	Clear to pale yellow homogeneous liquid

CPBA-3.0

HIGH-PRESSURE BOILER ANTISCALANT

- **Protect Boiler Tubes.**
- **Reduce Fuel Cost.**
- **Improve Heat Transfer.**

**Four-Action Scale Inhibition for
Bagasse-Fired & High-Pressure Boilers**



**Prevents
Scale
Formation**



**Improves
Heat
Transfer**



**Protects
Boiler
Tubes**



**Reduces
Fuel
Consumption**



180°C
Thermal Stability
Validated



96%+
Heat Transfer
Retained



5-100+kg/cm²
Pressure
Compatibility



4-IN-1
Protection
Scale | Sludge |
Corrosion | O₂

HOW CPBA-3.0 WORKS



TECHNICAL SPECIFICATIONS – CPBA-3.0

Parameter	Specification
Chemical Class	Organophosphate–polyacrylate hybrid blend — high-pressure boiler grade
Appearance	Clear to light amber homogeneous liquid
Specific Gravity @ 25°C	upto 1.20 -1.30 ± 0.02 g/cm ³
pH (as supplied)	7.0 – 7.5
Thermal Stability	Intact at 180°C continuous — TGA validated
Active Content	46% - 50%
Feedwater Dosage	10–25 ppm based on feedwater flow volume (m ³ /hr)
Blowdown Target	P-Alkalinity 200–400 ppm • SO ₃ residual 20–30 ppm
Dosing Point	Directly into high-pressure boiler drum via dedicated chemical feed line



CPOS-4.0

coeus
Polylabs Pvt. Ltd.

ACRYLIC-ENHANCED OXYGEN SCAVENGER

Fast, Visible Protection for Boiler Integrity



Eliminate
Oxygen



Prevent
Pitting



Protect
Boiler Tubes



Extend
Equipment Life



DISSOLVED OXYGEN IS THE SILENT KILLER.

CPOS-4.0 ELIMINATES IT IN UNDER 30 SECONDS.

Protect boiler tubes • Prevent pitting • Extend equipment life



<30 Sec

Reaction Time
Full O₂ reaction time



<5 ppb

Residual Oxygen
CO₂ residual achieved



270 bar

Pressure Rating
Proven pressure safety



5-LAYER

PROTECTION
Complete boiler protection

THE OXYGEN THREAT



Pitting Corrosion
Initiates internal attack



Tube Failure
Causes costly shutdowns



Steam Loss
Reduces plant efficiency



Boiler Shutdown
High repair and production loss

Result



₹1-5 Crore

Repair Cost
Per Incident

APPLICATIONS

- ✓ High-Pressure Boilers
- ✓ Cogeneration Plants
- ✓ Feedwater Systems
- ✓ Deaerators
- ✓ Steam Generation Units

FIVE-LAYER PROTECTION

	Oxygen Scavenging	Chemically removes dissolved oxygen via sulphite oxidation.
	Condensate Protection	Neutralises carbonic acid in steam condensate and prevents return line pitting.
	Scale Inhibition Support	Residual polyacrylate inhibits CaCO ₃ in low-hardness feeds.
	pH Buffering	Maintains mild alkalinity in treated feedwater to control corrosion.
	Passivating Film Formation	Forms a protective magnetite (Fe ₃ O ₄) layer on metal surfaces to reduce corrosion.

TECHNICAL SPECIFICATIONS – CPOS-4.0

Parameter	Specification
Chemical Class	Acrylic-enhanced sodium metabisulfite oxygen scavenger grade
Appearance	Clear to pale yellow homogeneous liquid
Active Content	Per CoA
Feedwater Dosage	30–60 ppm as residual in treated boiler water
pH	4.5 - 6.0
Boiler SO ₃ Residual Target	20–30 ppm (maintained continuously)
Specific Gravity @ 25°C	upto 1.20 -1.30 ± 0.02 g/cm ³
Pressure Rating	Up to 270 bar (ASME-compatible)

ENGINEERED CHEMISTRY. | ENHANCED PERFORMANCE. | RELIABLE PROTECTION.

CPPH-5.0

PH BOOSTER

CONDENSATE & FEEDWATER ALKALINITY BUILDER

Neutralising Amine Blend for Full Condensate Line Protection



Neutralises
Acidity



Prevent
Pitting



Improves
Reliability



Extend
Equipment Life



**ACID IN YOUR CONDENSATE LINE
DOESN'T ANNOUNCE ITSELF.**

CPPH-5.0 STOPS IT AT THE SOURCE.



PH 8.0-9.5

Target condensate range



<0.5mpy

Corrosion rate achieved



100%

Return line
coverage (volatile)



PH 5-13

Operational pH tolerance

THE PH THREAT IN SUGAR MILL BOILER SYSTEMS



CO₂ from carbonic acid formation lowers condensate pH to 5.5–6.5.



Acid corrodes carbon steel, thinning pipes and heat exchanger tubes.



Unprotected piping leads to tube failure and plant shutdowns.



Repair costs can exceed ₹1 crore per incident.



CPPH-5.0 neutralises acidity before it reaches metal surfaces.

TECHNICAL SPECIFICATIONS – CPPH-5.0

Parameter	Specification
Chemical Class	Neutralising + film-forming amine blend — volatile & non-volatile fractions
Target pH Range	8.0 - 9.5
Standard Dosage	5–15 ppm based on total condensate + makeup water flow (m ³ /hr)
Dosing Point	Condensate storage tank or feedwater pump inlet continuous automated metering
pH Control Method	Inline pH probe (4–20 mA) — automated variable dosing pump
Condensate Iron Target	< 0.05 mg/L Fe in treated condensate
Copper System Compatibility	Verified amine blend selected for non-aggressive copper alloy behaviour
Specific Gravity @ 25°C	upto 1.15-1.30 ± 0.02 g/cm ³
Packaging	25 kg carboys • 200 kg drums • 1,000 kg IBC
Active Content	Grade Specific

ENGINEERED CHEMISTRY. | ENHANCED PERFORMANCE. | **RELIABLE PROTECTION.**

coeus
Polylabs Pvt. Ltd.



CPCT-6.0

INTEGRATED COOLING TOWER CHEMICAL PACKAGE

Scale • Corrosion • Biofouling
Tower Protect • One Performance

 Corrosion Starts Silent.
CPCT-6.0 Stops It Before It Starts.



Controls
Scale



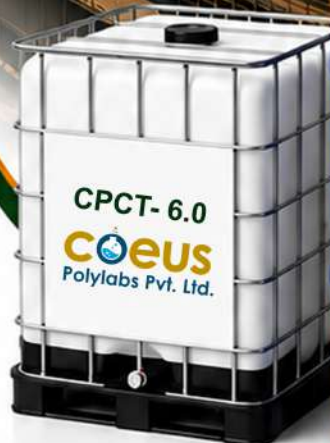
Protects
from Corrosion



Controls
Biofouling



Protects the
Entire System



7-10^{CoC}
Cycles of Concentration
vs 4-6 Standard



40-50%
Makeup Water
Savings



<0.3mpy
Corrosion Rate on
Carbon Steel



60%
Acid Consumption
Reduction

KEY BENEFITS



All-in-One Chemistry
Scale, corrosion, and biofouling
control in one package.



Film Forming Protection
Protects condenser tubes from
under-deposit attack.



Water Savings
Lower makeup water and
acid consumption.



System Efficiency
Maintains thermal performance
and vacuum stability.



Regulatory Compliance
Reduces Legionella risk
and liability.

COOLING TOWER PERFORMANCE FLOW



Cooling Tower
Basin



CPCT-6.0
Dosing



Scale
Control



Corrosion
Protection



Biofouling
Control



Higher CoC &
Water Savings



Lower Operating
Costs



Longer Equipment
Life



Improved Heat
Transfer



Reliable & Safe
Operation

TECHNICAL SPECIFICATIONS – CPCT-6.0

Parameter	Specification
Scale Inhibitor Class	Phosphonate + polyacrylate blend — all-in-one inhibitor
Biocide Blend	Halogen-releasing + isothiazolone (DBNPA optional)
Target Cycles of Concentration	7–10 (vs industry standard 4–6)
Active Content	Grade Specific
pH Operating Range	7.0 - 8.0
Compatibility	Compatible with metals, elastomers, and plastics commonly used in cooling towers
Appearance	Clear to light amber liquid
Specific Gravity @ 25°C	upto 1.15-1.20 ± 0.02 g/cm ³
Packaging	25 kg carboys • 200 kg drums • 1,000 kg IBC

ENGINEERED CHEMISTRY. | ENHANCED PERFORMANCE. | RELIABLE PROTECTION.

CPDS-7.0

coeus
Polylabs Pvt. Ltd.

DISPERSER S60 PAN AID

High-Viscosity Polymer Dispersant for
Vacuum Pans & Crystal Pans

“Disperser S60 is your pan's
best engineering upgrade.
Cut viscosity. Boost circulation.
Crystallise faster.”



THE VACUUM PAN CHALLENGE – VISCOSITY & FOULING

Vacuum pans boil dense massecuite - a complex suspension of growing sugar crystals in high-purity molasses - under vacuum at 55-70°C. As the massecuite thickens to 90-95% dry solids, surface tension rises, thermal circulation stalls, and $\text{CaSO}_4/\text{CaOx}$ begin depositing on pan walls and heating tubes. The result: extended boiling times, poorer crystal quality (high ICUMSA), incomplete molasses purging, and contamination of sugar with iron oxide from boiler condensate directly impacting export grade and premium pricing.



65-85%

Sludge volume
reduction



2-3X

Acid cleaning
interval extension



-55 mV

Zeta potential -
max repulsion



< 2 ppm
Blowdown iron
(vs 8-12 ppm
untreated)



TECHNICAL SPECIFICATIONS – CPDS-7.0



KEY BENEFITS OF CPDS-7.0



Prevents Crystal Fouling

Disperses fine solids and prevents crystal agglomeration to maintain free circulation.



Improves Heat Transfer

Reduces insulating deposits on pan walls and heating tubes for faster evaporation.



Enhances Crystal Quality

Produces purer, brighter crystals with lower ICUMSA and better centrifugation performance.



Reduces Cleaning Frequency

Extends operating cycles and reduces acid cleaning downtime and cost.



Minimizes Iron Pickup

Controls iron oxide contamination from condensate, protecting sugar colour and purity.

Parameter	Specification
Chemical Class	Carboxylate-sulfonate copolymer — high-MW anionic, engineered charge density
Appearance	Amber to brown viscous homogeneous liquid
Specific Gravity @ 25°C	upto 1.20 -1.25 ± 0.02 g/cm ³
Viscosity @ 25°C	280 – 380 cP
Zeta Potential	-35 to -55 mV (maximum colloidal stability)
Pan Aid Dosage	10–30 ppm on massecuite weight per strike
Iron Dispersant Dosage	3–8 ppm on boiler condensate flow
Dosing Method (Batch Pan)	Slug dose at 75% pan filling capacity
pH	7.0 - 8.0
Packaging	25 kg carboys • 200 kg HDPE drums • 1,000 kg IBC
Active Content	46 - 50%

MANUFACTURING EXCELLENCE & QUALITY ASSURANCE

Polymer science precision at Cherlapally, Hyderabad — every batch, every time .

“ A Certificate of Analysis is not a document. It is a commitment that every parameter listed has been measured, verified, and signed. ”

Ti - 2 REACTOR FACILITY — CHERLAPALLY INDUSTRIAL ESTATE

Facility Parameter	Specification
 Reactor Type	Ti - 2 Jacketed Reactors — corrosion-resistant, temperature-controlled to $\pm 1^{\circ}\text{C}$
 Feed System	Automated Triple-Feed System — simultaneous monomer, initiator, chain-transfer agent dosing
 Molecular Weight Control	± 100 Dalton batch-to-batch consistency — GPC/SEC verified every batch
 DM Water System	Double-Pass RO + EDI Plant — conductivity $< 2\ \mu\text{S}/\text{cm}$
 Production Capacity	600 kg Tonnes Per Year
 R&D Laboratory	Performance-validation lab simulating evaporator scaling, membrane fouling, and boiler chemistry

14-POINT BATCH QC PROTOCOL

In our Coeus Polylabs, all the products will be matched to all crucial analytical checkpoints.

#	QC Test	Method / Standard	Product Relevance
1	FTIR Structural Verification	FTIR spectroscopy vs reference spectrum	Confirms polymer backbone — all products
2	GPC/SEC Molecular Weight	Gel Permeation Chromatography — PEG calibration	Mw, Mn, PDI — CPAS, CPRO, CPBA, CPDS
3	Active Polymer Content	ISO 3251 gravimetric	Performance concentration — all products
4	Specific Gravity	ASTM D1298 — hydrometer	Dosing density — all products
5	pH (as supplied)	ASTM E70 — calibrated electrode	Application safety — all products
6	Viscosity	ASTM D2196 — Brookfield 60 rpm	Pumpability — CPAS, CPDS, CPBA
7	Phosphorus Content	ICP- OES EPA 200.7	$< 1\ \text{ppm}$ — CPAS food-grade compliance
8	Heavy Metals (Pb, Cd, Hg, As)	ICP-MS EPA 200.8	$< 5\ \text{ppm}$ — food-contact safety
9	Sodium Content (Na)	ICP-OES or flame photometry	Ionic strength balance — boiler grades
10	Residual Monomer (Acrylic Acid)	HPLC — UV detection	$< 500\ \text{ppm}$ — safety & stability
11	Thermal Stability (Accelerated)	In-house TGA / GPC post-aging	CPAS 150°C • CPBA 180°C validated
12	Biodegradability	OECD TG 301B	$> 60\%$ Readily Biodegradable — all products
13	Colour (APHA)	ASTM D1209	Appearance consistency — all products
14	Certificate of Analysis	Batch-specific signed CoA	Full traceability to reactor batch number

WHY COEUS POLYLABS — AND HOW TO ENGAGE

Direct manufacturer. Local support. No middlemen.



*“India’s sugar mills deserve world-class polymer chemistry —
manufactured in Hyderabad, priced for Indian industry,
backed by engineers who visit your plant.”*



THE COEUS POLYLABS ADVANTAGE

Advantage	What It Means For You
Direct Manufacturer — No Distributor	18–25% pricing advantage over Mumbai/Pune-based traders. Zero middleman margin. Same-day technical response.
High Active Content (46–55%)	High Active Content (46–55%) Higher polymer concentration means lower dose volume, lower drum count, lower freight, lower storage footprint.
±100 Da Molecular Weight Control	Batch-to-batch performance consistency. No surprise dose adjustments mid-campaign. Predictable, auditable chemistry.
Custom Formulations	calibrates formulations to your specific cane variety, water hardness profile, evaporator configuration, or boiler pressure rating.
Zero Lead Time — Hyderabad Based	Cherlapally plant to your mill in 24–72 hours across South India and Marathwada. Emergency stock protocol available.
On-Site Technical Support	Field engineers visit for commissioning, dose optimisation, and campaign reviews — not just product delivery.
ESG-Compliant Formulations	Phosphorus-free, OECD 301B biodegradable, <5 ppm heavy metals — CPCB effluent discharge compliant without neutralisation.



PRODUCT ORDERING REFERENCE

Product Code	Product Name	Application	Standard Pack
CPAS-1.0	Food-Grade Antiscalant	MEE Evaporators, Juice Heaters, Vacuum Pans	25 kg • 200 kg • 1,000 kg
CPRO-2.0	RO Antiscalant	RO Membranes / Security Filter Feed	25 kg • 200 kg • 1,000 kg
CPBA-3.0	Boiler Antiscalant	Boiler Drum / Feedwater Line	25 kg • 200 kg • 1,000 kg
CPOS-4.0	Oxygen Scavenger	Deaerator / Feedwater Pump Suction	25 kg • 200 kg • 1,000 kg
CPPH-5.0	pH Booster	Condensate Return / Feedwater Alkalinity	25 kg • 200 kg drums
CPCT-6.0	Cooling Tower Package	Barometric Condenser Loop / Basin	25 kg • 200 kg drums
CPDS-7.0	Disperser S60 (Pan Aid)	Vacuum Pans / Crystal Pans / Boiler Condensate	25 kg • 200 kg drums



How to Engage



Call / WhatsApp
For immediate
technical help



Plant visit & water
analysis Within
48 hours



Custom trial batch
& performance
validation



Long-term partnership
With continuous
optimisation



DOSING CALCULATIONS & METERING PUMP SIZING

Reference design for a 2,500 TCD sugar mill — fully scalable

“ Precision dosing is not an art. It is polymer science applied at parts-per-million — and it starts with getting the numbers right. ”



PLANT PARAMETERS — 2,500 TCD REFERENCE MILL

Parameter	Value	Basis
 Daily Cane Crushing Capacity	2,500 Tonnes/Day	Plant nameplate
 Massecuite Production (est.)	750 Tonnes/Day	30% of cane weight
 Boiler / RO Feedwater Volume	1,500 m³/Day (62.5 m³/hr)	Utility loop sizing
 Cooling Tower Makeup Water	600 m³/Day (25 m³/hr)	At 7 °CoC — 14% blowdown
 Chemical SG Assumption	1.15 g/cm³	Industry average for liquid formulations
 Pump Safety Factor	1.5× (50% over average flow)	IBR / GPSA standard practice



CALCULATED DAILY CONSUMPTION & PUMP SIZING

Chemical	Dosage (ppm)	Daily Consumption	Avg Flow (LPH)	Recommended Pump
 CPAS-1.0 (MEE + Heaters)	17 ppm on juice	42.5 kg/day (37.0 L/day)	1.54 LPH	0–3.5 LPH adjustable diaphragm
 CPRO-2.0 (RO Antiscalant)	4.5 ppm on feed	6.75 kg/day (5.9 L/day)	0.24 LPH	0–0.5 LPH micro-injection pump
 CPBA-3.0 (Boiler Antiscalant)	17.5 ppm on feedwater	26.3 kg/day (22.9 L/day)	0.95 LPH	0–2.0 LPH high-pressure plunger
 CPOS-4.0 (O₂ Scavenger)	45 ppm on feedwater	67.5 kg/day (58.7 L/day)	2.45 LPH	0–5.0 LPH motor diaphragm
 CPPH-5.0 (pH Booster)	10 ppm on feedwater	15.0 kg/day (13.0 L/day)	0.54 LPH	0–1.5 LPH pH-controlled auto
 CPCT-6.0 (Cooling Tower)	35 ppm on makeup	21.0 kg/day (18.3 L/day)	0.76 LPH	0–2.0 LPH + shock dose bypass
 CPDS-7.0 (Disperser S60)	20 ppm on massecuite	15.0 kg/day (13.0 L/day)	0.54 LPH	0–1.5 LPH adjustable diaphragm



Note: Dosing rates are starting points. Final optimisation should be based on plant trials, water quality, seasonal variation and operational targets.



ENGINEERED FOR PRECISION
Science-led dosing for consistent results



SAFE. RELIABLE. COMPLIANT.
Designed for IBR/GPSA standards & plant safety



SUSTAINABLE BY DESIGN
Better chemistry for people and planet



PERFORMANCE THAT COUNTS
Lower OPEX. Higher uptime. Measured impact.



STANDARDS / CERTIFICATIONS

Standards / Certifications	Applicable Products	Significance
 FSSAI FOOD SAFETY	CPAS-1.0, CPDS-7.0, CPR0-2.0	Indian food contact approval .
 ISO 9001:2015	All Products	Quality management system – consistent manufacturing processes
 BIS IS:10496	CPBA-3.0, CPOS-4.0	Indian Bureau of Standards – boiler water treatment compliance

“ India's sugar mills deserve world-class polymer chemistry — manufactured in Hyderabad, priced for Indian industry, backed by engineers who visit your plant. ”



Trusted Compliance



Engineered Performance



Consistent Quality



Partner in Progress



Scan Me



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Telangana, India .



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