



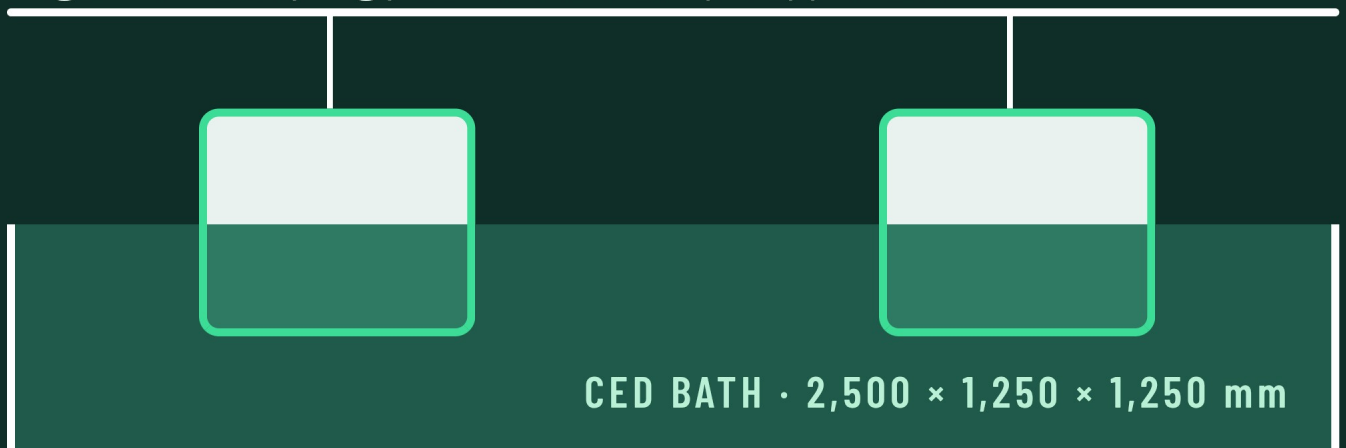
SV SURFACE COATINGS
PRIVATE LIMITED

UPCOMING PROJECT · SOP 15 FEBRUARY 2027

CATHODIC ELECTRO-DEPOSITION · POWDER · LIQUID

CORROSION PROTECTION, DOWN TO THE LAST CORNER.

A new automated CED job-coating plant for automotive and engineering components, coming up in MIDC Chh. Sambhaji Nagar. Now accepting part trials and sample approvals.



Start of production: 15 Feb 2027

+91 99705 85773 · vinod.deokar@svsurfacecoatings.in

A COATING PARTNER BUILT BY A PROCESS CHEMIST

SV Surface Coatings Pvt. Ltd. is a new job-coating company in Chh. Sambhaji Nagar, offering cathodic electro-deposition (CED), powder coating and liquid painting from one site and one common pretreatment line.

The plant is led by Vinod Deokar (B.Sc. Chemistry), who has spent 22 years in surface finishing and has set up and run seven coating plants, including CED, powder, autophoretic and aluminium lines.

22

years in surface finishing

7

coating plants set up and run

18

stage automated CED line

HOW CED WORKS

THE PART BECOMES THE CATHODE

Fully immersed in a water-borne epoxy bath, the part is charged negative. Paint particles migrate to it and deposit wherever the current reaches: inside box sections, seams and blind holes. As the film builds it insulates itself, so thickness stays even across the part.

WHY BUYERS SPECIFY CED

- ✓ **Full coverage** of hollow sections and recesses that spray cannot reach
- ✓ **Uniform film** on edges and flat faces alike
- ✓ **Zinc-phosphate base** for strong adhesion and salt-spray life
- ✓ **Low paint loss:** ultrafiltration returns drag-out to the bath
- ✓ **Water-borne, low-VOC** paint system
- ✓ **Ideal primer** under powder or liquid top coats

18 STAGES. ONE AUTOMATED TRANSPORTER.

Every tank measures 2,500 × 1,250 × 1,250 mm. A PLC-controlled transporter with two 1,500 kg wagons moves each load through the line on a fixed recipe, so dip times never depend on the operator.

A · CLEAN

- 01 Hot water rinse
- 02 Knock-off degrease
- 03 Degrease
- 04 Water rinse 1
- 05 Water rinse 2
- 06 Derusting

B · CONVERT

- 07 RCDM rinse 1
- 08 RCDM rinse 2
- 09 DM rinse 1
- 10 Activation
- 11 Zinc phosphate
- 12 RCDM rinse 3

C · COAT

- 13 RCDM rinse 4
- 14 DM rinse 2
- 15 CED bath
- 16 UF rinse 1
- 17 UF rinse 2
- 18 DM rinse 3

Stoving oven



Inspection & lab test



Powder / liquid top coat (optional)

WHAT KEEPS THE BATH IN CONTROL

Rectifier 250 V / 350 A with 8 tubular anode cells

Ultrafiltration closed-loop rinse and paint recovery

2 oil skimmers on the degreasing stages

Tank build: MS with 3 mm FRP lining; 3 tanks MS + PPH

5 TR air-cooled chiller holds CED bath temperature

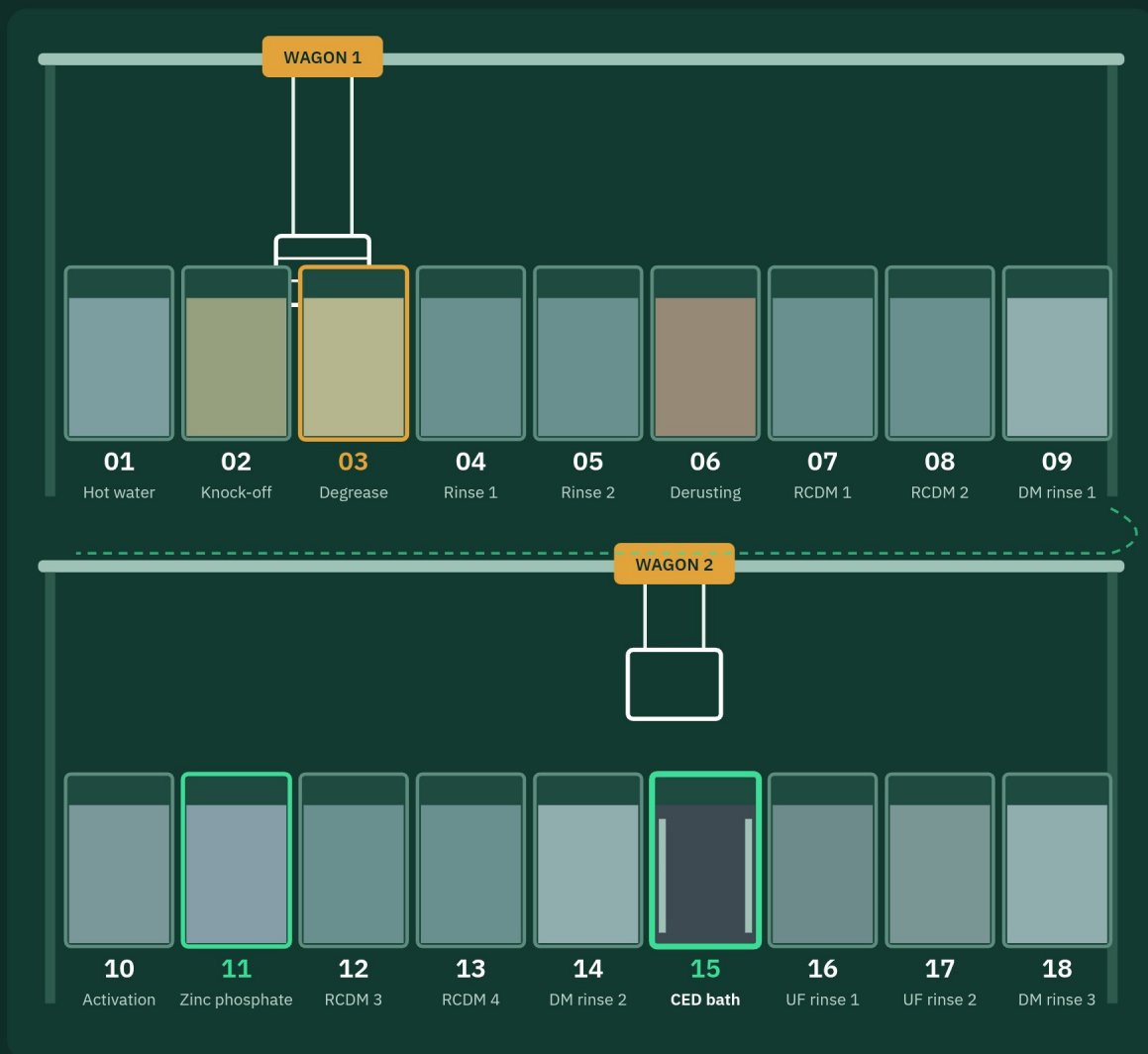
8 pumps + 8 bag filters for continuous circulation

4 heated stages with automatic temperature control

Sludge filter press, 24 plates of 18 × 18 in

YOUR PART'S JOURNEY, TANK BY TANK

The 18-tank process is what ensures the quality of every part we coat. This sequence was not taken from a catalogue: it was built from 22 years of running coating plants, with each rinse placed where experience showed it prevents a defect.



AUTO CASCADING RINSES

Clean water flows back automatically from rinse to rinse, keeping every stage at its set purity with less water

IN-HOUSE OVEN CALIBRATION

Our own data logger profiles the oven, so cure temperature is proven, not assumed

ALL LAB TESTS IN-HOUSE

Salt spray, DFT, adhesion, cure and bath analysis, all done on site

Tanks 1–6 remove oil, scale and rust

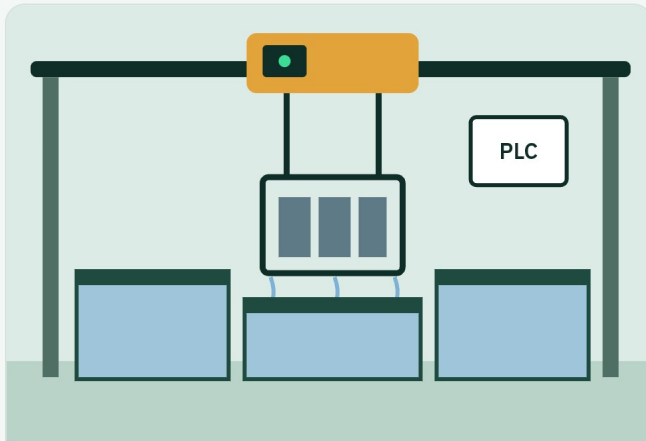
Tanks 7–14 build the zinc-phosphate base

Tanks 15–18 deposit and rinse the CED coat

Illustration of the planned line. The actual plant will be built to this layout.

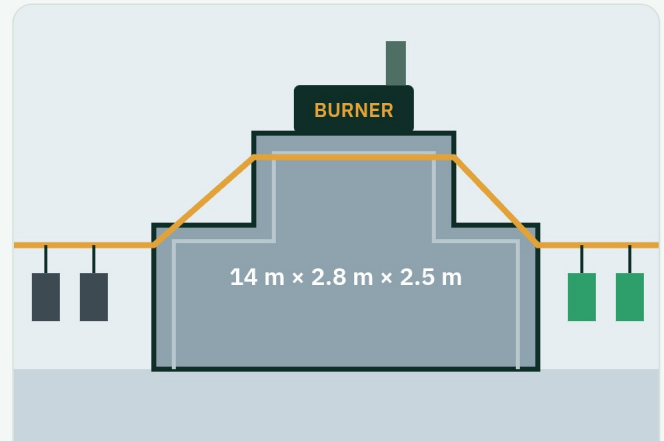
OUR PLANT WILL LOOK LIKE THIS

Artist's impressions of the main equipment now on order. Photographs of the installed plant will replace them after commissioning.



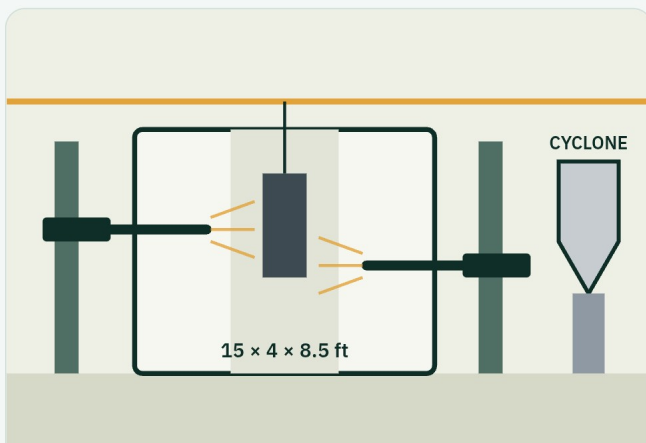
PLC TRANSPORTER

2 wagons × 1,500 kg, recipe-controlled dip and drain times



CAMEL-BACK OVEN

Raised centre holds the heat; Riello burner, 70 m conveyor



AUTO POWDER BOOTH

4 automatic + 2 manual guns, SS multi-cyclone recovery



IN-HOUSE TEST LAB

Salt spray, DFT, adhesion, cure and bath analysis

SIZED FOR REAL AUTOMOTIVE PARTS

CED TANK (INTERNAL)

**2,500 × 1,250 ×
1,250 mm**

LOAD PER CED WAGON

Up to 1,500 kg

PLANNED CAPACITY

**1,00,000 sq.m /
month**

EQUIPMENT	SPECIFICATION
CED line	18 tanks, MS + 3 mm FRP lining (3 tanks MS + PPH)
Transporter	PLC-controlled, 2 wagons × 1,500 kg lifting capacity
Job handling	8 job-hanging baskets, 8 base trolleys, trolley track
Rectifier & anodes	250 V / 350 A rectifier, 8 tubular anode cells
Camel-back oven	14 m L × 2.8 m W × 2.5 m H, Riello FS10 heat exchanger
Overhead conveyor	70 m closed type, 45 kg per hook, 300 mm pitch, auto lubrication
Powder booth	15 × 4 × 8.5 ft (4.6 × 1.2 × 2.6 m), SS multi-cyclone recovery, cartridge dust collector
Powder guns	4 automatic + 2 manual (Mitsuba), auto-gun cut-out 1,250 mm
Batch oven	9.5 × 6 × 14 ft (2.9 × 1.8 × 4.3 m), Riello FS20, for large parts
Heating fuel	LPG gas bank with vaporiser, 7,00,000 kcal/hr
Compressed air	2 × 10 HP compressors, 500 L receivers, air dryer
Water & effluent	DM plant 500 LPH · ETP 5 KLD · 3 HP acid/alkali fume scrubber

Maximum part size depends on jigging and anode clearance inside the 2,500 × 1,250 × 1,250 mm tank. Send us your drawing and we will confirm the hanging arrangement.

TESTED IN-HOUSE BEFORE IT LEAVES THE PLANT

An on-site laboratory with instruments calibrated to traceable standards checks both the bath and the finished part, so every dispatch carries a test report you can file in your PPAP.

COATING TESTS

Salt spray chamber · ASTM B117

Dry film thickness · DFT gauge

Adhesion · cross-hatch, ISO 2409

Cure · MEK solvent rub

Gloss, impact, pencil hardness

Throw power · box test on the bath

Flexibility · conical mandrel bend

BATH & PROCESS CONTROL

pH and conductivity every shift

Solids, P/B ratio, MEQ on the CED bath

Titration of degrease and phosphate

Coating weight of phosphate

In-house oven calibration · cure profile by data logger

Auto cascading rinses, purity checked every shift

Calibration of all instruments, NABL-traceable

SPC on DFT and bath parameters

A GREEN SUPPLIER FROM DAY ONE

MPCB COMPLIANT DESIGN

ETP, 5 KLD treats all rinse water on site

Water recycled to the line through DM and RCDM rinses

Fume scrubber on the pretreatment line

UF recovery cuts CED paint loss

Powder reclaim by SS multi-cyclone

Jig design that fills the oven, cutting fuel per part

MANAGEMENT SYSTEMS · CERTIFICATION IN PROGRESS

IATF 16949

Automotive quality

ISO 9001

Quality management

ISO 14001

Environment

ISO 45001

Health & safety

ISO 50001

Energy management

Also planned: MPCB Consent to Operate and ZED certification (MSME).

BUILT FOR THE MARATHWADA AUTO CLUSTER

Close to the OEMs and Tier-1 suppliers of Waluj, Shendra and AURIC, with short transit times for your parts.

Chassis & frame parts

Brackets & pressings

Two- & three-wheeler parts

EV battery trays & enclosures

Tractor & farm equipment

Electrical panels & fabrications

PROJECT TIMELINE

End Nov 2026

Equipment finalisation and order placement

Dec 2026 – Jan 2027

Shed preparation, civil work, ETP, erection

Early Feb 2027

Trials and customer sample approvals

15 Feb 2027

Start of production



Book your slot before SOP. Share your part drawing, coating spec and monthly volume. We will propose the process, jiggging and price.



SV SURFACE COATINGS
PRIVATE LIMITED

Vinod Deokar, Managing Director

+91 99705 85773

vinod.deokar@svsurfacecoatings.in

Plot [No.], MIDC, Chh. Sambhaji Nagar,
Maharashtra