

TiCOME Technologies

COMPANY PROFILE



ABOUT US



Founded as Sri
Bhagavathi Estates at
SIPCOT Aerospace
Park

Oct
2022

Jan
2023

Start of
Production
(Ti electrodes and
UF membranes)

Acquired ISO
Certification

Nov
2023

Jan
2024

Rebranded as
TiCOME
Technologies

Introduction of new
product line -
Electrolyzers

Sep
2024

Mar
2026

Annual Sales
reaching 25 Million
INR

Expansion into Services
sector - Aerospace
Design and Medical
Device Biocompatibility

Apr
2026

FACILITIES



Shopfloor
6500 sq.ft.



QC Lab



Lean Shed

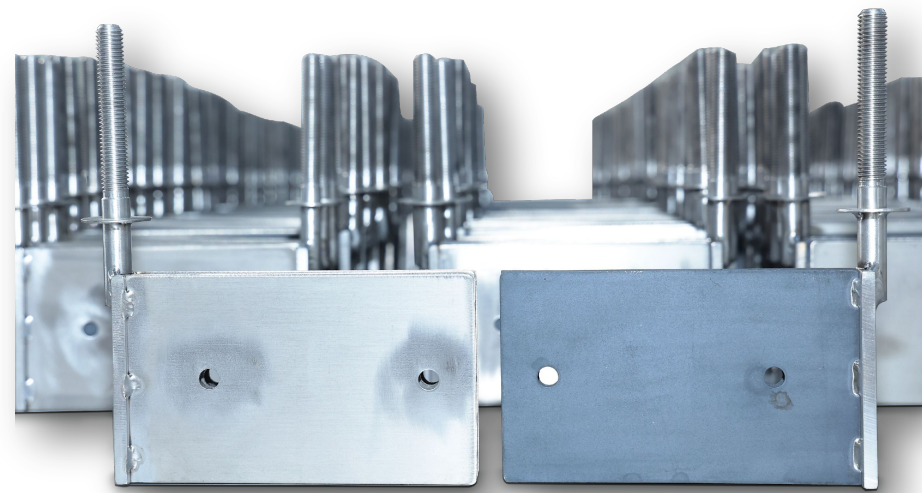


UF Manufacturing
Capacity: 10,000 m² p.m.



Advanced Roll-type Heating Furnace
Ti Electrode Mfg Capacity: 250 m² p.m.

PRODUCTS



Titanium Electrodes



UF Membranes



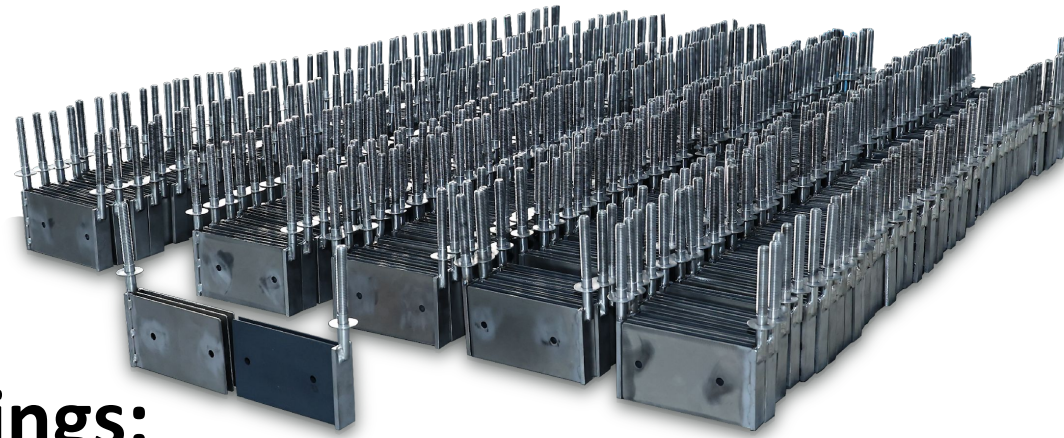
Electrolyzers

TITANIUM ELECTRODES (TSIA)



We manufacture, coat and re-coat various forms of Ti electrodes:

- Louvers
- Meshes
- Rods
- Plates



Types of Ti electrode coatings:

- Triple oxide
- Mixed Metal Oxide (MMO)
- Iridium oxide (IrO_2)
- Platinum-Iridium oxide (Pt-IrO_2)
- Pt plating
- Iridium-Tantalum ($\text{IrO}_2\text{-Ta}_2\text{O}_5$)
- RuO_2 on Ni cathodes

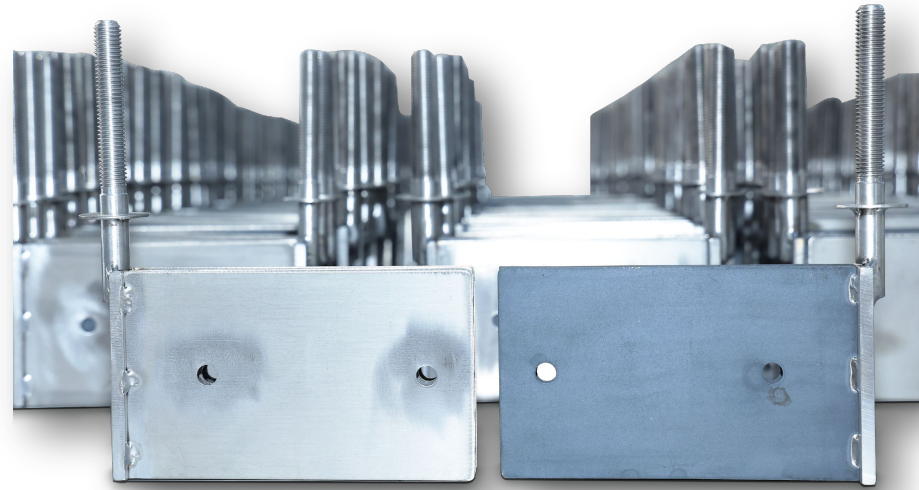
Additional services:

- Recoating of Ti electrodes for chlor-alkali industries
- Welding repairs on Titanium pipelines
- Ti anodizing

Applications:

- Caustic chlorine production
- Chlorine generators
- Water electrolysis/ H_2 generation
- Cathodic protection
- Electrowinning/ Electroflotation
- Ballast water treatments
- Alkaline water production

Chlorine Electrodes for SENCO, Coimbatore



Electrodes (200-1000 g in 8 hr)
for *Jal Jeevan Mission* by the
Government of India



Scale Harbour Electrodes

Export Electrodes for WP&E, USA



Electrode assembly - coated and welded

Ti ELECTRODE WORKS



Ti Mesh Electrodes for Tatva Chintan Pharma Chem Ltd., Gujarat



PbO₂ Oxide Plating



Pt + Ir Coating



Pt Plating



Pt Thermal
Deposition



Ir + Ta Coating

Ti Anodizing for Aarthi Industries, Chennai



Blue Anodizing



Golden yellow Anodizing

ELECTROLYZERS



Our advanced electrolyzer systems are engineered for efficient, on-demand chlorine generation using proven electrochemical technology. Designed for reliability, safety, and operational simplicity, these systems eliminate the need for bulk chlorine handling while ensuring consistent output for industrial and water treatment applications.

Types of Electrolyzers we offer:

- Chlorine electrolyzers
- Effluent Treatment Electrolyzers
- ED cells electrolyzers
- Scale removal Electrolysers
- Electroflotation Electrolysers



Applications:

- Water and wastewater treatment plants
- Cooling towers and industrial water systems
- Swimming pools and recreational water facilities
- Food processing and sanitation
- Pulp & paper industry
- Chemical processing units

ELECTROLYZER WORKS

Seawater Electrolyzers for SENCO, Coimbatore



5 kg/hr



0.5 kg/hr

ELECTROLYZER WORKS



Refurbishing 12 kg/hr Electrolyzers for Yo Engineering, Chennai



Before refurbishing



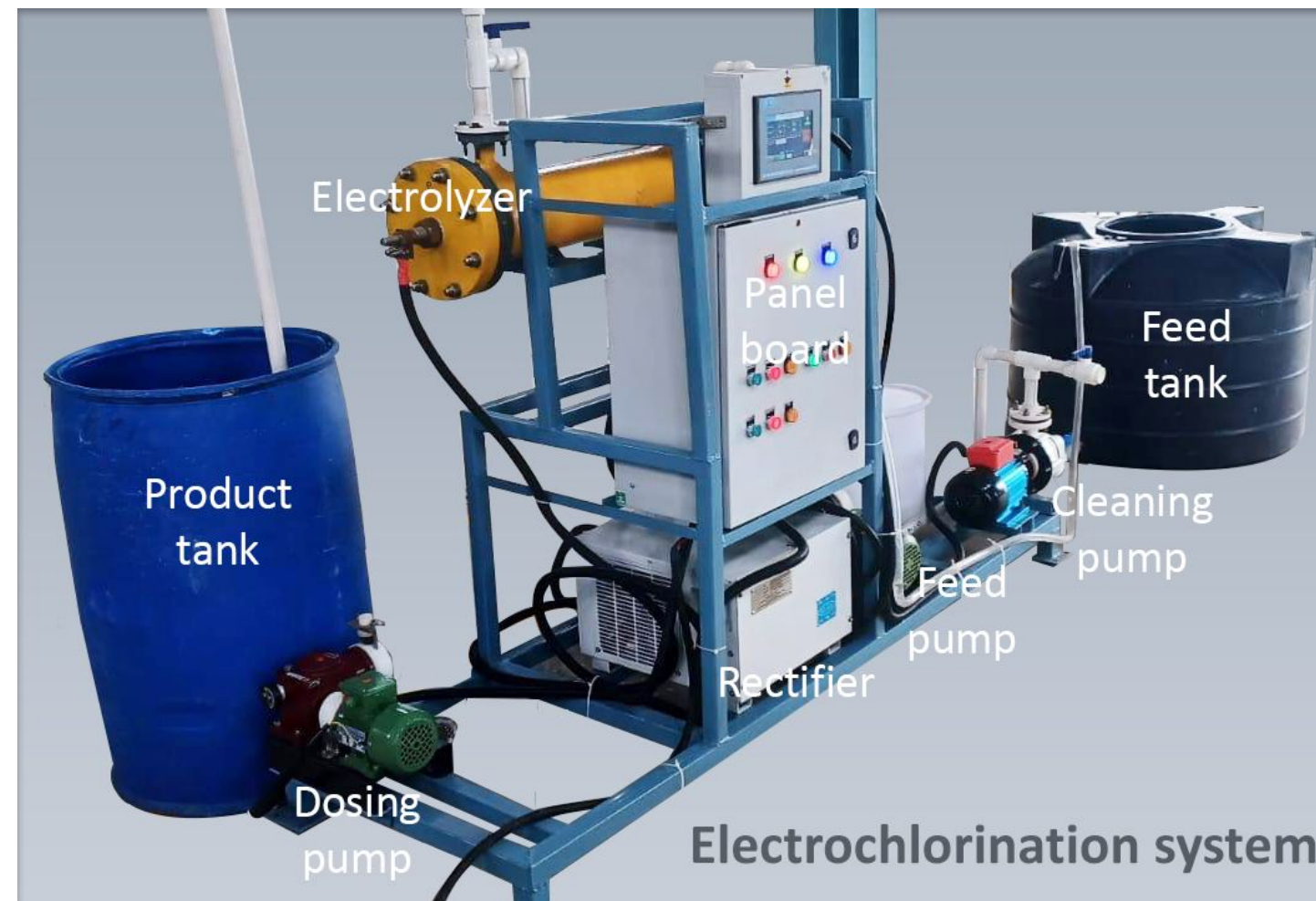
After coating & assembly



After packaging

ELECTROLYZER WORKS

Electrochlorination systems



ULTRAFILTRATION (UF) MEMBRANES



We specialize in manufacturing customizable in-to-out and out-to-in single bore membranes (SBM), with a monthly manufacturing capacity of 10,000 m².

Properties:

- *Flux range:* 60 to 150 litre/m²/hr
- *Service life:* 5 years, depending on feed water quality
- *Output:* No suspended solids, >6 log bacterial reduction, <0.5 NTU turbidity



MOC:

- Polysulfone (PSF)
- Polyethersulfone (PES)
- Polyvinylidene fluoride (PVDF)

Applications:

- ETP, STP and MBR
- Endotoxin removal in dialysis
- Brine purification
- Colloidal Silica Removal
- Pretreatment to Reverse Osmosis & Desalination
- Removal of suspended solids and microbes in cooling towers

TiCOME's STANDARD UF SIZES



TiCOME Standard Sizes					
Parameter	TiCOME-AFM -0960	TiCOME-AFM -0930	Ø225 x 1830	TiCOME-AFM -1160	Ø280 x 1830
OD	225	225	225	280	280
D1	270	270	270	320	320
A	157	157	157	230	230
B	70	70	70	85	85
L1	1530±5	750±5	1830±5	1530±5	1830±5
L2	1625±5	845±5	1925±5	1650±5	1950±5
L3	1765±5	985±5	2065±5	1820±5	2020±5

UF MEMBRANE WORKS



UF membranes for Clar Aqua Private Limited



280 dia x 1830 L - 85 m² area

UF MEMBRANE WORKS



UF membranes for Parry Enterprises India Limited



280 dia x 1100 L

UF MEMBRANE WORKS



Alkaline water systems



Domestic UF systems



KEY CLIENTELE



CLIENT TESTIMONIALS



TATVA CHINTAN PHARMA, GUJARAT

“

We have procured around 40 m² MMO coated Ti, Pt-Ir coated Ti and Iridium oxide–Tantalum Oxide coated Ti electrodes for Chlorine evolution reaction/ Oxygen evolution reaction from TiCOME Technologies, Chennai, during the past 6 months.

Performance wise these electrodes are on par with electrodes supplied by other Indian as well as Overseas suppliers.

”

DCW LTD, THOOTHUKUDI

“

We had recoated elements at M/S TiCOME in Chennai and also at M/S DeNora in Goa.

On analysis of the performance of those recoated elements, the performance of TiCOME recoated elements is on par with Denora.

”

ISO CERTIFICATE



ZERTIFIKAT ♦ CERTIFICATE ♦ 認証証書 ♦ CERTIFICADO ♦ CERTIFICAT


South Asia

CERTIFICATE

The Certification Body
of TÜV SÜD South Asia Private Limited
certifies that



TiCOME TECHNOLOGIES
Part - 2, Plot No. S14, SIPCOT Aerospace Park, Vallam Vadagal,
Sriperumbudur, Kancheepuram - 602 105, Tamilnadu, India

has implemented Quality Management System
in accordance with **ISO 9001:2015**
for the scope of

**Manufacture of Ultra Filtration Membrane,
Manufacture of TI Electrodes for water disinfection and
Caustic chlorine production.**

The certificate is valid from **2023-11-30** until **2026-11-29**
Subject to successful completion of annual periodic audits
The present status of this certificate can be obtained through TÜV SÜD website by scanning below QR code and by
entering the certificate number (without spaces) on web page. Further clarifications regarding the status & scope of
this certificate may be obtained by consulting the certification body at info.in@tuvsud.com

Certificate Registration No. **99 100 23588**
Date of Initial certification: **2023-11-30**
Issue Date: **2025-02-27** Rev. 01


Rahul Kale
Head of Certification Body
of TÜV SÜD South Asia Private Limited,
Mumbai
Member of TÜV SÜD Group



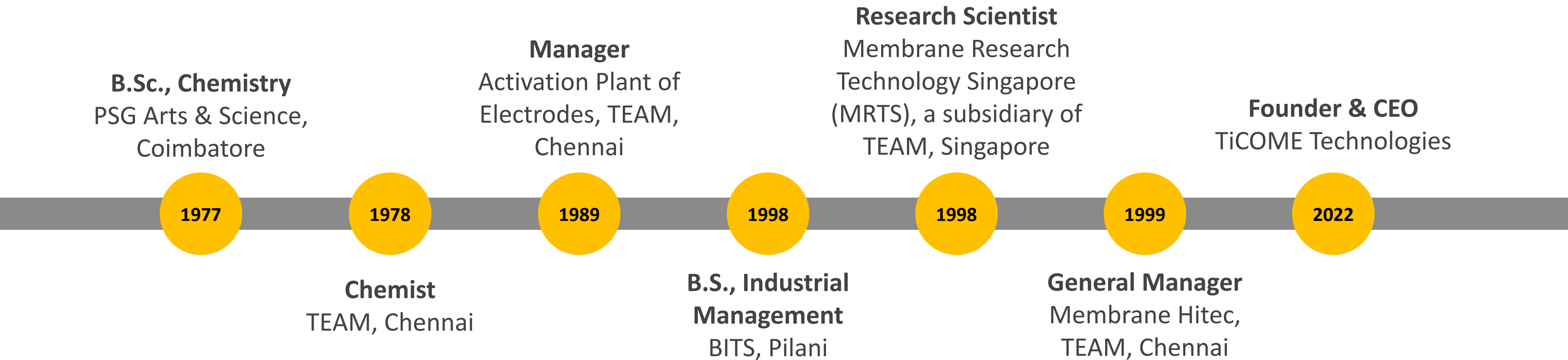
TÜV SÜD South Asia Pvt. Ltd. • TÜV SÜD House • Sakinaka • Andheri (East) • Mumbai – 400072 • Maharashtra • India 

Our Founder & CEO

R.SIVASUBRAMANIAN



PERSONAL PROFILE



KNOW-HOW

Titanium Substrate Insoluble Anodes (TSIA) Coating

Noble metals
(Platinum, Palladium, Iridium,
Ruthenium, Tantalum)

Applications

- Electrodes for Caustic Chlorine Plant
- Sodium hypochlorite Generation
- Ballast Water Treatment
- Water Disinfection
- Water Electrolysis

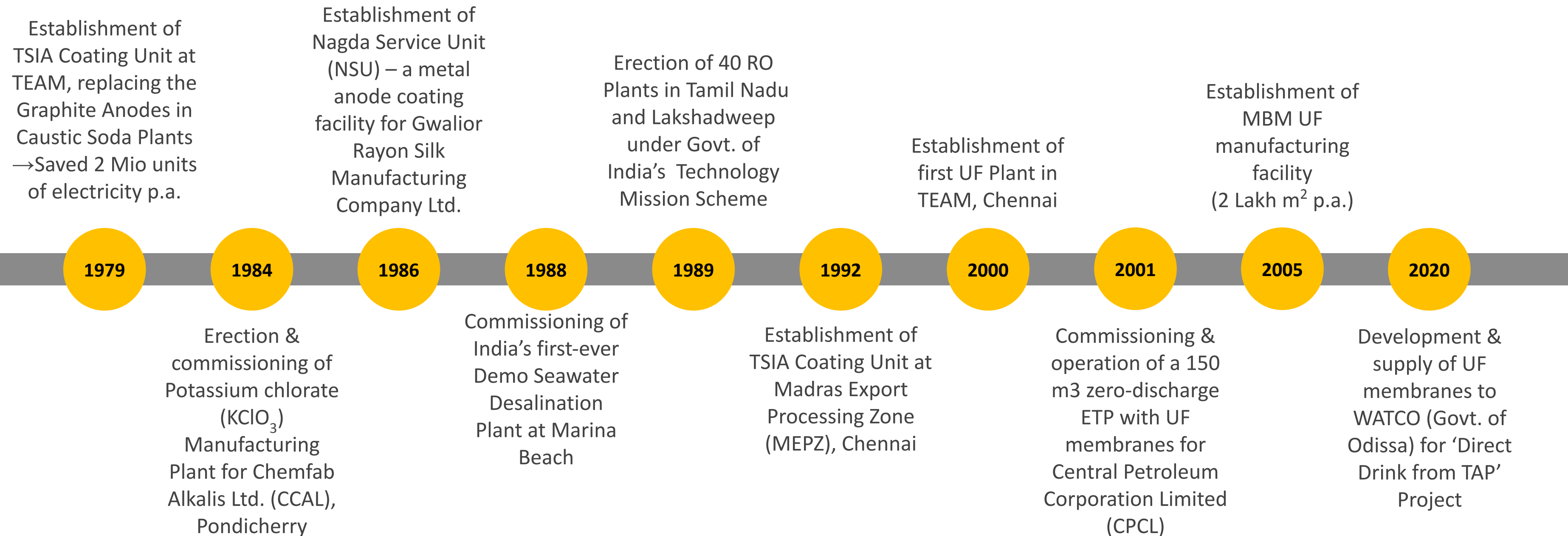
Ultrafiltration (UF) Membrane Development & Manufacturing

Polysulfone (PSU)
Polyethersulfone (PES)
Polyvinylidene difluoride (PVDF)

Applications

- Effluent Treatment Plant (ETP)
- Sewage Treatment Plant (STP)
- Membrane Bioreactors (MBR)
- Pre-treatment of seawater before RO feed
- Membrane for Kidney Dialysis

MILESTONES



INTERNATIONAL CONNECTIONS

- Study of Cathode Coating Technology from Chlorine Engineers Corporation (CEC), **Japan**
- Manufacturing of Metal Anodes for mercury cells, **Tunisia & UAE**

1992

1995

Knowledge acquirement of Noble metal coating for Nickel cathodes in bi-polar membrane cells in caustic chlorine, **Germany**

Acquisition of UF equipment from **China &**
Establishment of pilot plant at **Singapore** for spinning of hollow fibre membranes

1998

2000

Study on commercialization of UF membranes by visiting Pentair X-Flow, **The Netherlands**

Study on Electrodeionisation (ED) technology at SnowPure Water Technologies, **USA**

2003

2015

Retro-fitting of UF Membranes for seawater pre-treatment at Wilmar International, **Indonesia**

CONTACT US



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ISO 9001:2015
certified