



Aarti: Company Overview



At Aarti, we define our purpose as 'Right Chemistry for a Brighter Tomorrow' where 'Brighter Tomorrow' means products which are needed for society, i.e. products which help the society make their future bright and 'Right Chemistry' means the way in which we manufacture these products..

- Rajendra Gogri

Our Ethos



PURPOSE



Right Chemistry for a Brighter Tomorrow

VISION



To emerge as a Global Partner of Choice for leading consumers of speciality chemicals and intermediates

MISSION



Delighted Stakeholders







CARE

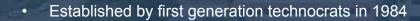


INTEGRITY



→ Aarti Industries at a Glance

AARTI INDUSTRIES



- Specialised in Benzene and Toluene based derivatives
- · Integrated operations and high-cost optimisation
- Key value chains include Nitro Chloro Benzenes,
 Di-Chlorobenzenes, Phenylenediamines, Nitro Toluene Value
 Chain and Sulphuric Acid & downstream
- Strong R&D capabilities
- Strategically located in western India with proximity to ports



100+ Products



Exporting Countries



Zero Liquid
Discharge Plants



State-of-the-art R&D Centers



1100+
Domestic & Global
Customers



Manufacturing Plants



6,000+ Employees



Co-generation
Power Plants



→ Our Journey



Shri Chandrakant Gogn, with his firends Shri Parimal Desal and Shri Shantital Shah incorporated Aarti Organics PNL Ltd. with a purpose to create Right Chemistry for a Brighter Tomorrow Anti Industries speciality chemical speciality chemical speciality chemical company from India to commercialise to commerciali		manufacturing unit was established in		Hydrogenation and Nitration unit was set up at Jhagadia, coupled with first Pharma plant set-up at		synthesis division at Vapi received USFDA approval, increasing our		demerged from Aarti Industries		Pharmalabs demerged from Aarti Industries		third long term contract, a new manufacturing unit was commercialised
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Geographic Footprint

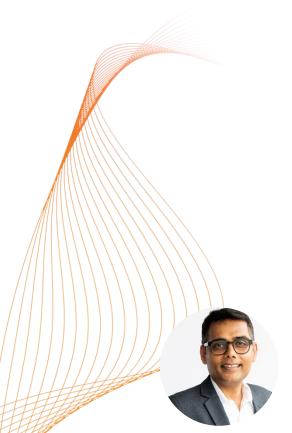
Manufacturing Units	Location		
Zone 1	Vapi, GujaratTarapur, Maharashtra		
Zone 2	Jhagadia, Gujarat		
Zone 3	Bhachau, GujaratDahej, Gujarat		
Other Set-ups	Location		
Other Set-ups Research and Development Centers & Pilot Plant	Location ★ Vapi, Gujarat ★ Navi Mumbai, Maharashtra		
Research and Development	★ Vapi, Gujarat		



New plants at Jhagadia: New plants with new chemistries and products are under construction at the upcoming Zone IV

→ Exemplary Leadership





Mr. Suyog Kotecha CEO and Executive Director



Mr. Rajendra Gogri Chairman and MD



Mr. Rashesh Gogri Vice Chairman & MD



Mr. Renil Gogri Vice Chairman



Mr. Parimal Desai Executive Director



Mrs. Hetal Gogri Gala Non-Executive Director



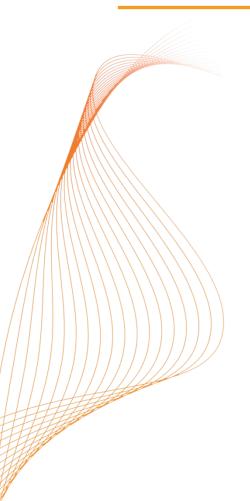
Mr. Manoj Chheda Executive Director



Mr. Ajay Kumar Gupta
Executive Director

Senior Management Team







Chetan GandhiChief Financial Officer



Raj SarrafCompany Secretary



Pankaj Mehta Head-Corporate Relations & Strategy



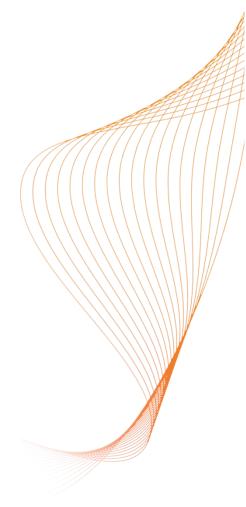
Prashant Potnis
Chief Scientific Officer



Manoj Sharma Chief Human Resource Officer

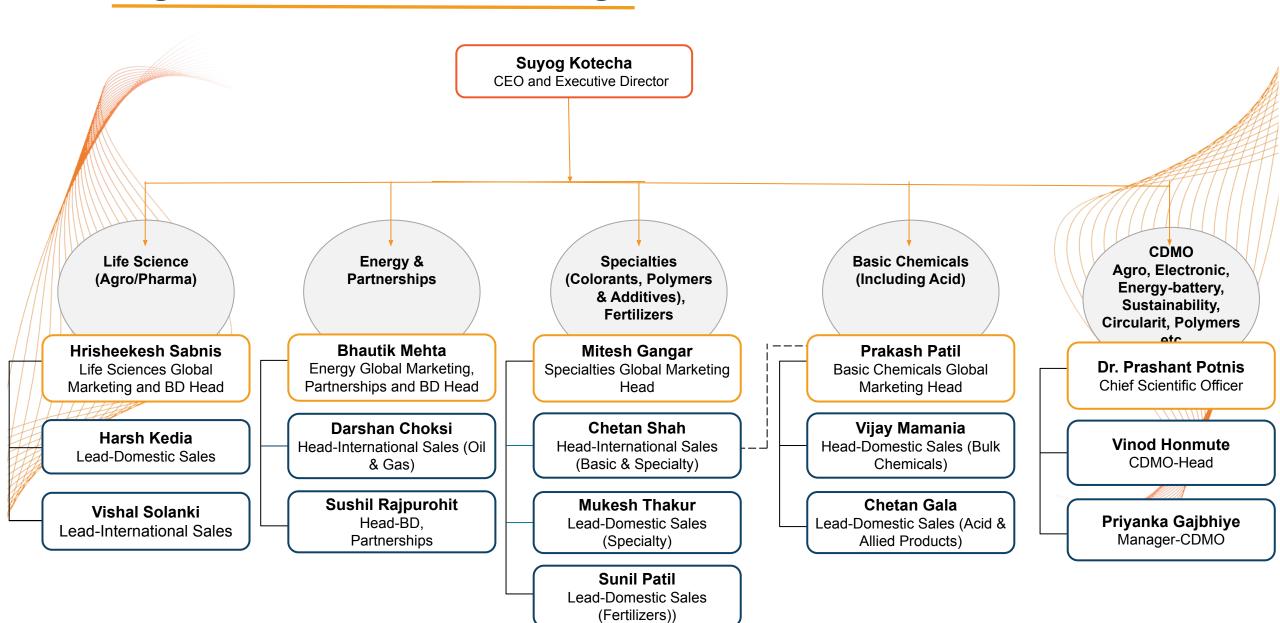


Harendra Pandya
Chief Projects &
Procurement Officer



4

Org. Structure-Sales, Marketing & CDMO



ARTC Leadership





Mr. Suyog Kotecha
CEO & Executive
Director



Dr. Sowbna P R
Process Safety Head



Ankit Mittal Strategic Technology Head



Dr. Praveen Goyal Synthesis Group Lead



Mirik Rajendra
Gogri
Corporate Strategy



Bhaskaran Rajagopalan Chief Technology Officer



Dr. Nitin Kamble Analytical Head & Factory Manager



Dr. Prashant Potnis Chief Scientific Officer



D Radhakrishnan Technology Development Head



Vinod Honmute CDMO- Head



Dr. Yashwant
Tambe
Synthesis Group Lead

Global Customer Base















































SunChemical























Sustainability Is At TheCore Of What We Do

Environment

- 11 sites are Zero Liquid Discharge (ZLD)
- Total water recycled ~44% of the total water withdrawal in FY 24
- More than 8200 KL water harvested through rainwater in FY 24
- Recycled 92% waste, remaining 8% is responsibly disposed

Social

- Incorpoated requirements of UN Global Compact, International Labour Organisation's (ILO) Declaration and Sexual Harassment of Women at Workplace Act, 2013, etc.
- Locally Sourced over 75% of raw materials and 98% engineering goods.
- 1.5 lakh+ lives benefited through our CSR initiatives
- Implementation of Best in Class Safety Practices

Governance

- Robust Compliance framework covering 78 acts, 101 rules and 10000 compliance provisions
- · Cloud first approach for scalability and reliability to enable future growth
- Robust Information Security Practices and Technology Centre and R&D are ISO 27001 certified





Certifications













→ Diverse Range of End-use Products



100+ Products Aarti Industries Limited has a diverse portfolio of basic chemicals, agrochemicals, speciality chemicals and intermediates, which are extensively used in manufacturing pharmaceuticals, agri-products, polymers, additives, pigments and dyes.





In the textiles and the fabrics



In the air fresheners that tickle your senses



In the oil refineries



In the paints that colour your home/cars



In every farmer's toolkit



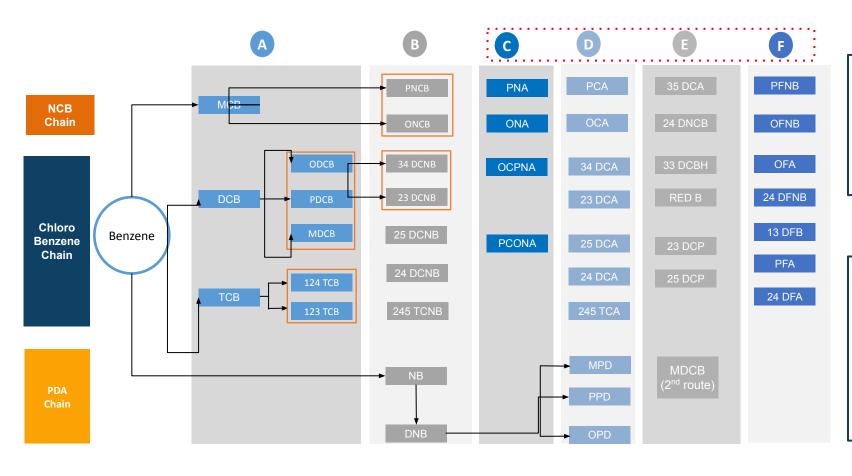
In the medicines that keep you healthy



In the aeroplanes that help you touch the skies

Benzene Value Chain





- A- Chlorination
- B-Nitration
- C-Ammonolysis
- D-Hydrogenation
- E-Others
- F-Halex

- Integrated operations across product chain of Benzene and Toluene
- Co-products/Isomer balancing
- Optimizing product mix
- · Ability to meet stringent specifications
- Supply chain not linked with China
- "A" and "B" account for 20% of the speciality chemicals revenue
- Focus on growth oriented products
- · Diversified end uses



Domestic Ranking

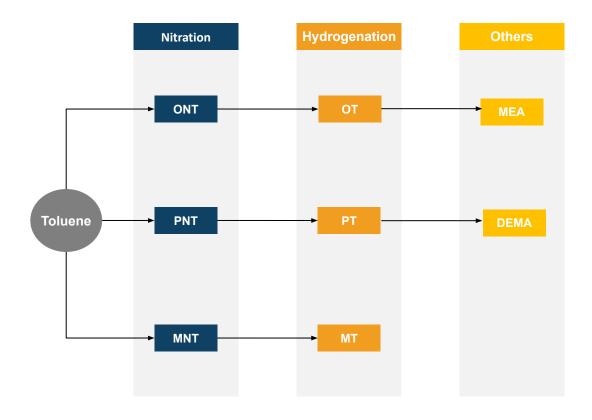
Leading manufacturer for Nitro Fluoro Aromatics (via Halex chemistry) & PDA

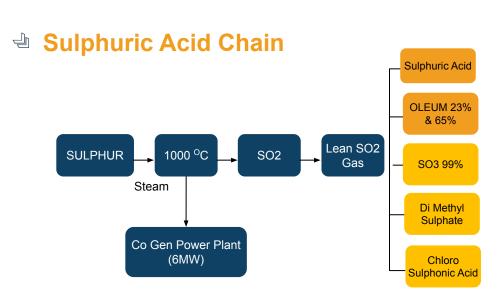


Toluene and Sulphuric Acid Product Chains



Toluene Value Chain





Other Speciality Chemical products

- Single Super Phosphate (SSP)
- Export Grade Calcium Chloride Granules (for Oil exploration & De-icing)
- Fuel Additives
- Phthalates



Current Key Chemistries at Aarti Industries



Sr. No.	Chemistry	Number of Key Products	Capacity MTA	Mode of Operation
1	Hydrogenation	14	88000	Semi-Batch/Continuous/Batch
2	Nitration	17	200000	Continuous/Semi-Batch
3	Chlorination	8	220000	Continuous/Semi-Batch
4	Ethylation	3	10000	Batch
5	Ammonolysis	4	32000	Batch
6	Esterification	4	30000	Continuous Packed Bed Reactor
7	Diazotization	3	10000	Semi-Batch /Continuous/Batch
8	Halex chemistry	3	30000	Batch

Key Raw Material

Our key raw materials are benzene, toluene, chlorine, hydrogen, nitric acid, ethylene, methanol, etc.

Effluent Handling

We have different technologies to handle our effluents. For example, Bioreactor, Fenton Process, Reverse Osmosis, Multi Effect Evaporator, Agitated Thin Film Evaporator, etc.



Global SCM Expertise



Chlorine, HF, DMS, Ethylene

- Health Hazards: Chlorine, HF, DMS, Ethylene, Nitric Acid, etc.
- Chemical Instability: p-nitrochloro benzene, sulphur trioxide, etc.
- Flammability: Hydrogen, Benzene, etc.

Gaseous Materials Handling

- · Aarti handles several hundred tons of gaseous materials like chlorine, ammonia and ethylene
- Specially designed tankers to handle hazards of specific chemicals

Own Customs Agent

- No dependence on external agencies for customs clearances
- Can supply from FOB to DDP basis
- Improved service & lower cost

Supply Chain Planning

- · Supply chain from refinery materials to products in niche end applications
- · Rolling 3 months forecast on production, supply and inventory
- Dedicated inventory held for specific customers as per requirement



60

Countries around the world import from Aarti at 120 ports



States in India receive domestic dispatches from Aarti



800

Tanks/containers exported to various countries every month



8.000

Metric Tons of material moves across Aarti locations daily



320

Daily vehicle movements at Aarti locations with a dedicated fleet of 325 vehicles

Aarti has a successful track record of Long Term Partnerships With Chemical Majors across sectors





Manufacturing

Outsourcing

Sector: Polymers

- 20-year supply contract for a high value speciality chemical intermediate for a global conglomerate
- Total contract value of \$1,540 million
- Capital Outlay of \$42 mn fully funded by the customer
- Proprietary technology being shared by the partner



Product

Co- development

Sector: Polymers

- 10-year supply contract for a new specialty chemical intermediate for a global chemical major
- Total contract value of \$125 million with a capital outlay of \$18 million
- Product was co-developed by Aarti with the customer over 4 years from lab to commercial scale



Long Term Supply

Sector: Agchem

- Long-term supply contract with a Global Agrochem major for a niche agrochemical intermediate
- Revenue potential of over \$364 mn over 9 years
- Existing product for AIL; product supplied to the said customer for past few years
- Aarti has incurred capex to meet the contractual volumes



Long Term Supply

Sector: Energy

- 4-year supply contract worth over \$727 mn with a MNC conglomerate
- Product already a part of existing product basket of AIL
- Supplying this product for the past few years with consistent annual increase in volumes
- Aarti's existing capex plans were sufficient to cover the requirements of this contract



Long Term Supply

Sector: Agchem

- 10-year supply contract with a leading MNC for a key herbicide intermediate
- Total contract value of \$620 million
- Capital Outlay of \$62m jointly funded by Aarti and customer
- Contract was cancelled due to market conditions but the relationship has expanded in volume as well as breadth



Joint

Venture

Sector: Multiple

- 50:50 Joint venture with UPL for phosgenated derivatives
- First of its kind partnership between two large Indian chemical companies
- Each partner to provide one key raw material
- Capital Investment of \$35m

Pioneering R&D Excellence



State-of-the-art R&D centres at Navi Mumbai & Vapi

19 PhDs and 220+ scientists

Planned product introductions, more than 50% products will be launched first time in India

50,000 Sq. Ft.

Covered by an ultra-modern laboratory

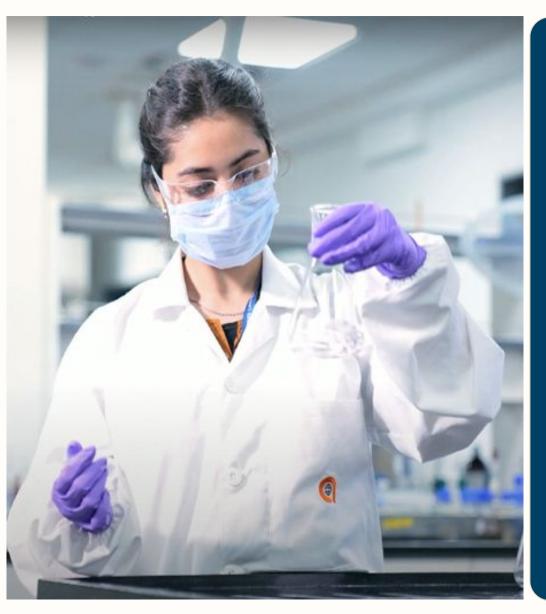


Fully Digitised Paperless Laboratory with ISO 27001: 2022 Accreditation

- Developed various products and processes in-house throughout AIL's journey
- Expertise in diverse chemistries at plant and lab scale, including: Photochlorination, Nitrilation, AHF, Grignard, Diazotization and more
- Built a state-of-the-art 12,000 sq. ft. analytical and 8000 sq. ft. process safety laboratory with experienced and qualified scientists
- Has a dedicated team of scientists who develop strategic chemistries for multiple growth projects, such as:
 - Photochemistry
 - Vapour Phase Technology
 - Flow Chemistry Technology
 - Isomerization



ARTC's Advanced Infrastructure: Enabling Innovation



Synthesis Lab

- 4 digitized labs (~12,000 sq. ft) with 32+11 fume hoods.
- High-pressure systems and scale-up facilities.
- Advanced equipment and software.
- Expertise in all chemistries except cyanation.

Strategic Technology Lab

- Dedicated lab with 5 + 2Fume Hoods
- Expertize in
 Photochlorination,
 Amoxidation, Kolbe
 Schmidt, Nitrilation,
 Hydrolysis etc.
- Sophisticated
 equipments like -Fixed
 Bed Reactors (Liquid and
 Vapor Phase),
 Photoreactors etc.

ARTC's Infrastructure: Enabling Innovation



Analytical Lab

- State FDA & NABL approved analytical facility spread across 4 labs (~12,000 Sq.ft.)
- Method development,
 validation & calibration,
 Structural elucidation,
 Impurity characterisation & isolation
- ICP-MS / IC, GPC,LCMS/GCMS, PSD (wet/dry

FT-IR, etc

Process Safety Lab

- Dedicated lab (~4000 sq ft)with sophisticated infra.
- RC1e, TSU, DSC, MIE, ARC to assess process hazards
- Desktop screening, HAZOP, packaging safety study
- Process and Product LifeCycle Assessment
- SDS generation

ARTC's Infrastructure: Enabling Innovation



- Process Intensification Lab
 - Dedicated lab (~3000 sq ft)
 for scale-up data
 generation, design of unit
 operations and
 optimization/ What if studies
 - VLE, ANFD, packed bed reactor, CSTR, L-L extraction, loop reactor, micro reactor, fractional & short path distillation setup

Knowledge Management

- ISO 27001:2013

 accreditation & IS

 Management System
- FTO evaluation, IP protection, technology landscapes
- Artificial Intelligence for route scouting
- Tacit Knowledge Digitization
- Scifinder, Reaxys and

Strategizing Emerging Chemistry Applications



Electronic Chemicals

- PPM/PPB scale Metal control
- High purity demand
- Nano filtration, Sublimation etc Product colour improvement
- Exploration of different resins
- Catalyst and high grade solvent evaluations
- Specialized techniques and analytical method developments



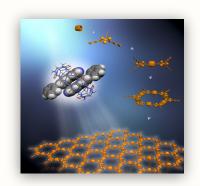
Fuel Cells and Battery Chemicals

- Membrane development technology exploration
 (partnership model))
- Understanding quaternization, cross linking, N-capping etc.
- Special analytical method developments
- Pilot scale sample generation



Sustainability Chemicals

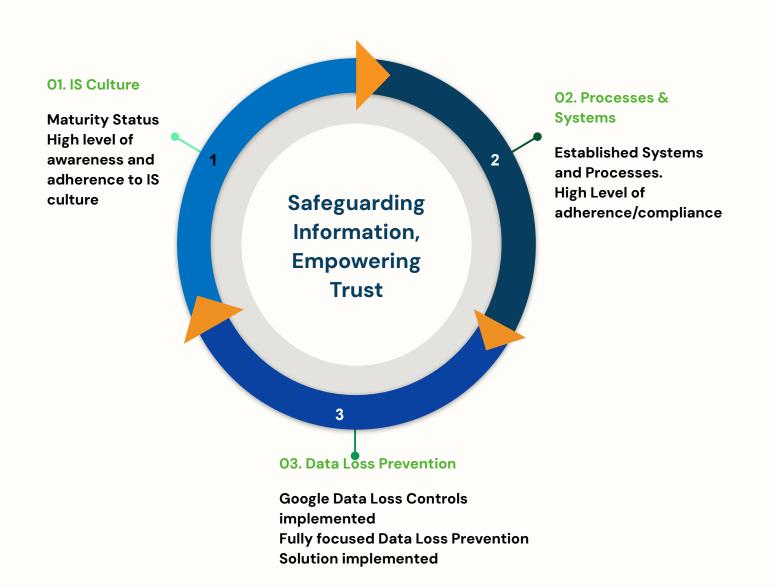
- Polymer additive invention: For high performance and recyclability
- Development of HVO and SAF from renewable feedstocks: used cooking oil
- Feasibility evaluation to utilize end-of-life plastic waste for petrochemical feedstocks
- Carbon capture exploration



MOFs

- Controlling hygroscopicity
- Glove Box capability requirement evaluation
- Sample qualification
- Analytical capability building

Information Security (IS) & Effective Data Management



Transition from Conventional to New Areas of Chemistry



Existing Chemistries

New Chemistries- Under Various Phases of Development

Hydrogenation

Nitration

Chlorination

Ammonolysis

Diazotization

Halex Chemistry

Methylation

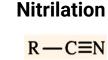
Dehalo Hydrogenation

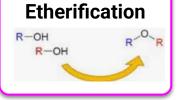
Ethylation

Esterification



AHF F H F n

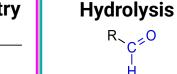




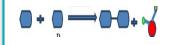
Sandmeyer



Flow Chemistry



Condensation



Isomerization



Polymerization



Balz-Schiemann HNO₂

Deamination

- NH₂

Photo Chlorination



Vapor-phase Nitration HNO₃ Hofmann Rearrangement

 $\mathsf{RCONH}_2 {\longrightarrow} \ \mathsf{RNH}_2$

Lab scale chemistries (g to kg scale)



New Pilot Plant Capabilities

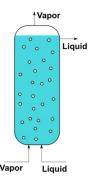




- 34 chemistries can be carried out.
- Inbuilt Analytical lab to carry out Analysis of all pilot samples.
- Inbuilt laboratory set and fume hoods to carry out lab experiments



- MoC of equipments -SS, Hastelloy, CS-PTFE and MSGL
- Total Reactor volume of 6500 Litres in first phase and provision for future expansion
- DCS systems for data monitoring with advanced analytical tools.



- Capable to handle varied Unit operations such Reaction, filtration, distillation, drying etc
- Proto type Environmental Engg Lab



 Dedicated utilities such as hot water, cooling water, DM water, hot oil (300 deg C), chilled water (7- 12 deg C), chilled brine (-20 deg C), steam (14 kg/cm2), and N2.

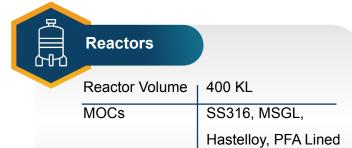




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The Upcoming Multipurpose Plant

Located in Jhagadia, Gujarat. Part of a 100 acre greenfield chemical complex



To be operational by Q3 2025



ANF	SS316L, Hastelloy			
Centrifuge	Hastelloy			
Dryer	SS316L			
Columns	SS316L, MSGL, PTFE Lined			
ATFE	SS316L			





Storage tanks of diverse usage incl.

PESO Solvents

5 Bays for future expansion

Scrubbers for plant, process pad and tank

farm

Flexible piping for quick product changeover

Hydrogen, Chlorine via pipeline

HCL management assets



Speed

Quicker scale-up to commercialization



Flexibility

Greater volume flexibility from 500 kg to 500 tons

BENEFITS



Multitasking

Run upto 4 products or 8 steps in parallel



Added Benefits

Campaign plants for multiple chemistries available on site

→ Future Growth Avenues





Thank You...