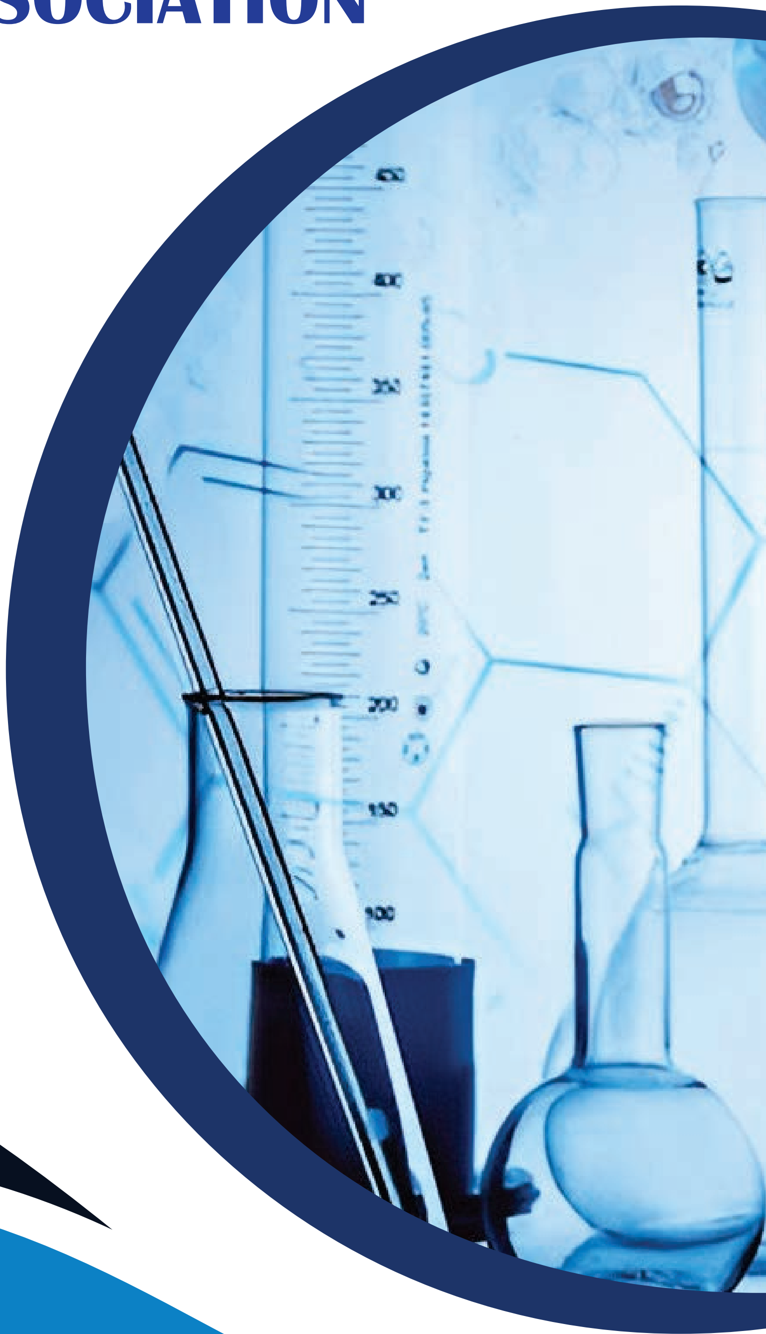
ISCMA®

INDIAN SPECIALITY CHEMICAL MANUFACTURERS' ASSOCIATION

(Since 1952)



68th Annual Get-Together 2025

DORADO CHEM PVT. LTD.

PRODUCT LINE UP

FEATURED PRODUCTS

CELANESE	Copolymer Emulsion of Vinyl Acetate and Ethylene
ISK Japan	Titanium DiOxide
KURARAY	High-Molecular-Weight PVOH
	Hydrophilically Modified Polyisocyanate
	Polyvinyl Alcohol
LANDU	Re-dispersable Powder
LUHUA	Aliphatic Resin Obtained from Petroleum-Derived Monomers
RESONAC	Vinylacetate/Ethylene copolymer Emulsion
WANHUA	Aqueous Polyurethane Dispersion
	Hydrophilically Modified Polyisocyanate

PRODUCTS WE SOURCE

Acrylamide Powder (Micro Biology)
Acrylic Acid & Esters
Adipic Dihydrazide (ADH)
Alkyl Amines
B-Naphthol
Calcium Cyanamide 63%
Carbazole
Caustic Potash
Chloranil
Cyanamide 50% Soln (HCN)
Cyanuric Chloride
Di Ketenes Derivatives
(MAA, EAA, AAA, AAMX, AAOT, AAOCA) Quinoline
Diacetone Acrylamide (DAAM)
DMSO
Epichlorohydrin
Ester Alcohol (C-12, C-16)
Ethyl Cyano Acetate
EVA Resins
Furfuryl Alcohol
Hydrocarbon Resin C5 & C9
Hydroquinone
Iodine
Maleic Anhydride
Melamine
Methyl Acetate
MMB (3-Methoxy-3-Methyl-1-Butanol)
N Methylol Acrylamide
N Methylene Bis Acrylamide (nMBA)
Naphthalene Intermediates
Neo Pentyl Glycol
Non Phthlate Plasticizers (Adipate, Citrate)
Phthalic Anhydride
Pigment Intermediates (DMSS / DMAS / DIPS / TCCBM)
Polyferric Sulfate
Potassium Carbonate
Quinaldine
Raw Materials for Thermal Paper
Raw Materials for Toners / Copiers / Printers
Sodium Chlorite
Styrene-Isoprene-Styrene Block Copolymer
Tertiary Butanol
Thiophenol
Titanium Oxy Chloride
Titanium Tetra Chloride
Tri Ethyl Ortho Formate
Tri Methyl Ortho Formate
Vinyl Chloride-Vinyl Acetate-Vinyl Alcohol Resins
Wet Strength Agents for Paper
Xylidines

302, Sunil Enclave, Pereira Hill Road, Off Western Express Highway,
Andheri - Kurla Road, Andheri (E) Mumbai - 400 099.

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HEETU CHEMICALS & ALKALIES LIMITED

INDIA'S LEADING CHEMICAL DISTRIBUTION COMPANY

ABOUT US

Founded and incorporated in 1991 as a limited company, Heetu Chemicals & Alkalies Limited has evolved as one of the leading chemical distribution company in India. Over the last two decades the company has developed core strengths in chemical distribution.

OUR VISION

To become the foremost trusted Chemical Distribution Company in India, by ensuring the highest level of services, increasing the scope of our offering and optimizing the utilisation of resources. To provide our clients with the highest quality products.

HEETU CHEMICALS & ALKALIES LIMITED REPRESENTING

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GNAL – Building Bonds
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PLEXCHEM Technologies
MaTerra Solutions
ASN TECHNOLOGIES
百傲化学 Bio Chemical
UPL OpenAg™
Oilplus
THERMAX LIMITED
MLA GROUP – RIGHT CHEMISTRY, RIGHT PEOPLE
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DowAksa
HOSHINE

OUR STRATEGY

- Leading brands combining heritage and innovation with some of the most respected names in the industry
- Flexible and agile operating model
- Solution providers for our clients and developers for new products and value added services

WHY US ?

- **30+** years experience of working with **500+** client across industries in Indian and Global markets.
- Long Term sustained clients
- Successfully completed **5000+** installations by Heetu Group
- Provide tailor made solutions
- Key goal is client experience and satisfaction
- **ISO** Certified

WE OFFER

- Chloro Alkalies
- Aluminium Chlorides
- Chloro Methanes
- Biocides
- Silicone
- Solvents
- Amines
- Chloro Toluenes
- Glycol Ethers
- Phosphoric Acids
- Caustic Potash Group
- Hydrogen Peroxide Group
- Cement / Construction Chemicals
- Laundry Chemicals
- Specialty Chemicals
- Oil Field Chemicals
- Water Treatment Chemicals

**Our range of offerings is constantly expanding.*

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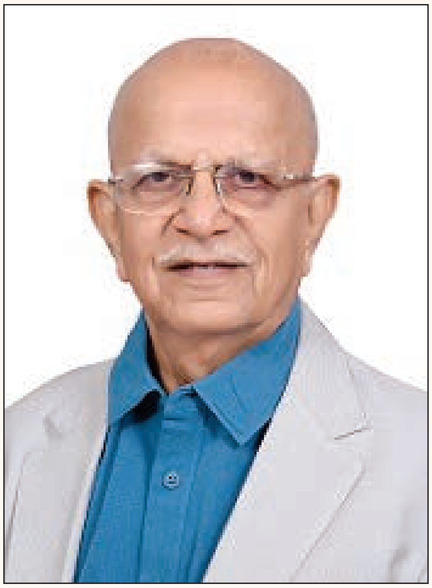
President Message



Dr. Yashwant Jhaveri

"No Legacy is so rich as Honesty"
-William Shakespeare

Dear All,

I am happy to write to all of you on ISCMA's activities from the past year and a few thoughts on our Industry and our path forward.

2025 is proving to be a challenging year for the Indian industry. Starting with USA imposed export tariffs, AI related digital disruptions and the recent conflict with our neighbours. We have to continuously adapt to a volatile and changing business environment.

Working together within our companies and together as an Industry, we must do everything possible to overcome these challenges. This includes developing new export markets, increase local demand within India, becoming more competitive and working closely with our government. By engaging and interacting with the government, we can understand where we can increase export and continue to grow globally. Our government is keen to promote and increase exports to markets such as USA and help the industry to select which products can be increased in export volumes.

Another big focus for our industry always is sustainability. Sustainability is seen a challenge or a cost. But it can also be a great opportunity for our industry. We can offer our customers

President Message

advanced Green and eco-friendly chemicals, cleaner and more efficient processes, water recycling and energy-saving solutions and use of alternate energy options like solar and green hydrogen.

ISCMA is always helping our members to understand these trends and keep our members updated and informed. We have held sessions on "Emerging Trends in Wastewater and Sludge Treatment" with the Tarapur Industrial Manufacturers' Association. We have also organized sessions on important topics such as Contract Manufacturing, MSME focused opportunities, Success-driven mindsets, Human resource management, Exchange of views with other associations and attending trade shows.

As I mentioned in the beginning, our world is changing fast every day. Indian chemical industry needs to be ready to cater to the needs of the new-age high-tech industries like semiconductors and electronics, biotech and pharma, and advanced materials such as rubber and plastics. To meet these changing requirements we all need to upgrade our skills, capabilities and technologies. We need to invest in basic research and development, develop new formulations and applications, work together with startups and universities and take advantage of enabling digital technologies such as Artificial intelligence and Machine learning which speeds up product development and also optimizes our operations and manufacturing processes.

Further, for Indian chemical companies to grow and compete globally with China in terms of quality and cost, we must also continuously work to upgrade our workplaces, and invest in training and up-skilling of our talent. This will allow us to meet global standards and attract and retain talented staff. It will also be a showcase to foreign partners and buyers.

At the same time, many companies in our industry are exploring mergers and acquisitions. This is helping them grow faster and get new technologies. Through improvements or inorganic growth, the focus is clear—our industry must build strong and future-ready organizations.

I want to take this opportunity to thank all our members and partners for their constant support. A special thanks to the ISCMA committee members for their entire efforts towards the success of our organization, towards the wonderful annual get together and for publishing of this souvenir.

Wishing everyone a successful remainder of 2025.

The Chemistry worked out –

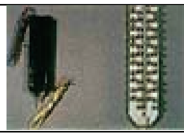
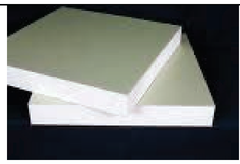
- Much more than Molecules –

- From Molecules to Markets –

- The Power to turn ideas into Solutions –

The company with vast experience in the castor oil and its derivatives manufacturing is a reliable source for:

Few multifarious applications of JAOL's Products

CASTOR OIL – All grades like USP, Eur.Pharma, BP, IP, DAB, Urethane, Electrical, Cosmetics, FSG, Deodorized, Pale Pressed, Extra Pale			***POLYOLS FOR CASE:*** PU Rigid & Flexible Foams, Visco Foams, Molded Foams, Coatings, Adhesives, Sealants & Elastomers
AMIDES PRODUCTS Amides MP 100, 120, 135, 140	**PU FLOOR COATINGS** Biopolyols, Solvent-Free, Reactive Diluents	**ELECTRICAL PU POTTING** Biopolyols, Solvent-Free, Reactive Diluents	***SEBACIC ACID*** – Intermediate for Polyamides, Polyols, Plasticizers, Corrosion inhibitors
COATINGS, INKS, SEALANTS, ADHESIVES Dehydrated Castor Oil (DCO) & DCO Stand Oils Thixotropic, Antisagging, Dispersing Agents, DCO Fatty Acids, Bio-polyols	 **PU ADHESIVES** Biopolyols (Solvent-free), Reactive Diluents	 **PHARMA** Castor Oil, Hydrogenated Castor Oil & Ethoxylates	***EMULSIFIERS & SURFACTANTS*** - Castor based Ethoxylates Sulfated Castor Oil Polyglycerol Polyricinoleate (PGPR), Glycerol Esters
LUBE GREASES Hydrogenated Castor Oil, 12-Hydroxystearic Acid, Methyl 12-hydroxystearate			***SPECIALTY FATTY ACIDS*** – Heptanoic acid, Undecylenic acid, Isooleic Acid, Jagrofa-SML(mix of short, medium, long chain)
GLYCERINE Cosmetics, Resins, Humectant, Intermediate, Soaps, Ethoxylates, Polyurethanes, Plasticizer, Perfumery, Esters, etc.	**FRAGRANCE & FLAVOURS** 2-Octanol 2-Octanone n-Heptanal, Heptanoic acid Methyl undecylenate ***Ethoxylates as:*** Solubilizers & Emulsifiers	**LUBRICANTS** Products in Mfg. of Greases, Coolants, Rust preventives, Wire-drawing compounds, Synthetic base oils	***EPOXY SYSTEMS*** Reactive Diluents, Impact improvers, Flow improvers, Flexibilizers, Epoxy Curatives (Hardeners)
RICINOLEIC ACID & its Salts (Zinc, Calcium) & Esters : Methyl, Glycol, Cetyl, Butyl, Octyl Ricinoleates & Hydroxystearates			***ADDITIVES FOR COATINGS, ADHESIVES & INKS*** – for Slip, Mar-Resistance, Antisagging, Antisettling, Polyamides
CASTOR BASED ESTERS for Lubes, Cosmetics, Plasticizers, Solvents	**COSMETICS** Emollients, Dispersants, Wax substitutes, Emulsifiers, Pearlescents, Firming agents	**POLYURETHANE FOAMS** **Rigid, Flexible, Visco, Molded**	***ORGANIC FERTILIZERS*** Pragati, Pragati+, Pragati-HP - Deoiled Castor cake based 100% organic fertilizers, N:P:K 5:1:1 to 8:1:1. Insecticidal, Nematicidal, Sustained Release Properties. ***ORGANIC ASH*** – K, P rich
2-OCTANOL, 2-OCTANONE Green Solvents, Perfumeries, Plasticizers, Surfactants, Esters, Emollients, Intermediates, etc.			
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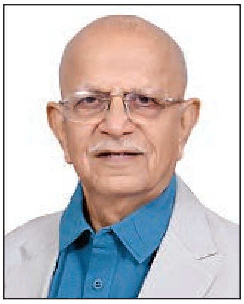
ISCMA COMMITTEE MEMBERS - 2023-2025



Dr. Yashwant Jhaveri
President

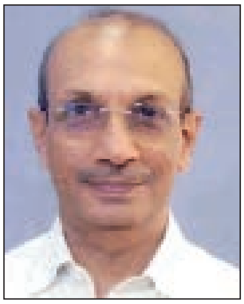
Shri. Vinay D. Patil
Imm. Past President

Shri. Umasankar Mahapatra
1st Vice President

Shri Rajive Shah
2nd Vice President

Shri. Vinit M. Patel
Hon. Treasurer

Dr. Subhash V. Udeshi
Committee Member



Shri. Gunjan J. Yagnik
Committee Member

Shri. Sanjay Nawander
Committee Member

Shri. Hardik Sampat
Committee Member

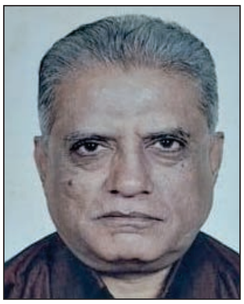
Dr. Sanjay Sahu
Committee Member

Shri. P.M. Kundalia
Committee Member

Dr. Kishore M. Shah
Co-Opted Member

Shri. Deepak V. Bhimani
Co-Opted Member

Shri. Kashiprasad C. Murarka
Co-Opted Member



Shri. J.B. Purohit
Special Invitee

Shri. Harshad Shah
Special Invitee

Kwantum
Chemicals and Polymers Pvt. Ltd.
Motivating for Excellence

About Us

At **Kwantum Chemicals & Polymers Pvt. Ltd.**, we are driven by innovation, quality, and a deep commitment to the industries we serve. Founded with a vision to become a trusted name in specialty and industrial chemicals, we have emerged as one of India's leading manufacturers

Product Range

Boiler Water Treatment Chemicals

- Corrosion Inhibitors
- Descalants
- Sludge Conditioners
- Oxygen Scavengers
- Alkalinity Builders

Cooling Tower Treatment Chemicals

- Biocides
- Antiscalants
- Corrosion Inhibitors
- Biodispersants

Basic Polymers

- Poly Maleic Acid
- Homopolymer
- Co-polymer
- Ter-polymer
- Phosphino Carboxylic Acid

Colour Precipitant & Coagulant

- PolyDADMAC
- Polyamine
- PolyDCDA

Biocides

- BKC
- SDMDC
- DBNPA
- Glutaraldehyde
- Isothiazoline
- DCP

Sugar Processing Chemicals

- Mill Sanitation Chemicals
- Viscosity Reducer
- Defoamers
- Descalants
- Acid Inhibitors
- Anti-scalants
- Colour Precipitant
- Seed Slurry

Phosphonates

- ATMP
- DETMP
- Salts of ATMP
- Salts of DETMP

RO Antiscalants

- Acidic Descalants
- Antiscalants (Silicate, Carbonate & Sulfate)
- Alkaline Descalants

Contact Us

Mobile: 985098791
Email: abhay.patil@kwantumchemicals.com
Website: https://kwantumchemicals.com/
Plot No. FS 26/1, MIDC Five Star Industrial Area,
Amshet, Tal Mahad, Dist. Raigad, Maharashtra – 402309,

Indian Speciality Chemical Manufacturers' Association has been representing manufacturers of Speciality Chemicals and functioning as nodal agency of the industry since 1952. ISCMA has been proactively raising issues and concerns faced by the industry to Government Authorities on various subjects related to Technology, Trade, Safety, Health and Environment etc. Lately, it has been decided to arrange lectures by Eminent personality to help members business and increase fellowship.

ISCMA includes large corporate houses to Small and Medium Scale Units. The membership of the Association is open to manufacturers of chemicals for textile, leather, paper, paint, rubber, fertilizer, engineering, oil and many other industries. Now the membership has been opened up for indenter of multinational companies and traders as associate member. We welcome new members of all categories.

MAIN OBJECTIVES

- The association promotes and safeguards the interest of the speciality chemical industry
- To make representation with Government authorities or bodies on any matter affecting the speciality chemicals trade and industry
- To promote better service to members, information on safety, health, environment, sustainability, responsible care initiatives under the structured of self-regulation
- To recognize services for promotion of speciality chemical industry
- Exchange of views to members
- Providing facilities for conferences, exhibitions, seminars, technical training relating to speciality chemicals
- To promote technical knowledge and other information for the benefit of others
- Promote co-operation among Indian speciality chemical manufacturers
- To promote and preserve high standard of business integrity and principals
- To promote trade connected with speciality chemicals in India
- Co-ordinating with all other associations or bodies in India as well as other countries To extend and maintain international liaison

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CONTACT FOR MORE DETAILS: 7974224837

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INDIAN SPECIALITY CHEMICAL MANUFACTURERS' ASSOCIATION

PAST PRESIDENTS OF THE ASSOCIATION

1.	Shri N. R. Soman		
2.	Shri S. M. Mistry		
3.	Shri M. D. Dhamankar	-	1974-1975
4.	Shri D. M. Neterwala	-	1976-1978
5.	Shri B. S. Malvi	-	1979-1980
6.	Shri. R. Hormazdiyar	-	1981-1982
7.	Shri S. Sivashankar	-	1982-1983
8.	Shri C. I. Bhuva	-	1983-1987
9.	Shri S. K. Parekh	-	1988-1990
10.	Shri L. N. Gandhi	-	1990-1992
11.	Mrs S. F. Vakil	-	1992-1994
12.	Shri S. M. Kelkar	-	1994-1996
13.	Shri C. V. Somaiya	-	1996-1997
14.	Shri Narendra R. Mehta	-	1997-2000
15.	Shri N. K. Parekh	-	2000-2002
16.	Shri M. B. Malvi	-	2002-2004
17.	Shri Narendra R. Mehta	-	2004-2007
18.	Dr. Kishore M. Shah	-	2007-2012
19.	Shri Deepak Bhimani	-	2012-2016
20.	Shri Kashi C. Murarka	-	2016-2018
21.	Shri Vinay D. Patil	-	2018-2023

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L.N. Chemical Industries

Mirachem Industries

Naksh Formaline Pvt. Ltd.

Navdeep Chemicals Pvt. Ltd.

R R Innovative

Sauradip Chemical Industries Pvt. Ltd.

SNF India Pvt. Ltd.

Vasu Chemicals LLP

Vikram Plasticizers

Vimal Intertrade Pvt. Ltd.

Chief Guest ...

Nadir B. Godrej

Nadir B. Godrej is the Chairperson, Godrej Industries Group and Chairperson and Managing Director, Godrej Industries Limited and Chairman of Godrej Agrovet Ltd. He is also the Co-Chair of Godrej Good & Green Governing Council. He holds a Master of Science degree in chemical engineering from Stanford University and an MBA from Harvard Business School. He has been a Director of several Godrej companies since 1977 and has developed the animal feed, agricultural inputs and chemicals businesses of Godrej Industries and other associate companies and has been very active in research.

Mr. Godrej is deeply committed to the GOOD and GREEN strategies and achievement of set targets for the Godrej Industries Group. He encourages and supports a shared vision value for all programs of Good and Green.

Mr. Godrej is the President of The Alliance Française De Bombay and also, a Member of the CII National Council and past Chairman of the CII National Committee on Chemicals.

Mr. Godrej has been honored with numerous prestigious awards, both in India and internationally, for his exceptional contributions to business, sustainability, and society. In 2023, he received the Hurun Award for Most Respected Indian Industrialist of the Year and the Game Changer Felicitation at the India Gulf Business Summit for redefining sustainability in business. He was also conferred with honorary doctorates from the Institute of Chemical Technology and XIM University, Bhubaneswar, recognizing his impact on industry and society.

Chief Guest ...

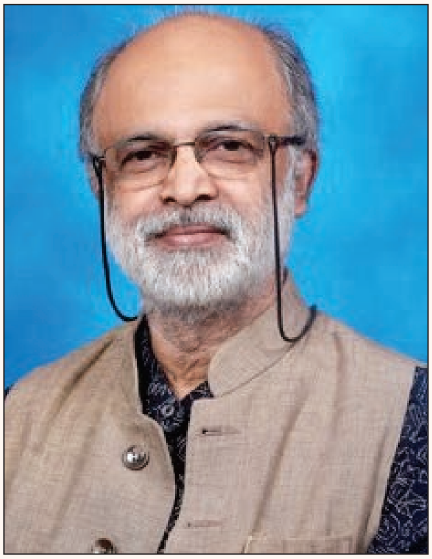
His accolades include the Chevalier de Legion d'Honneur, Lifetime Achievement Awards from CLFMA of India, Indian Chemical Council, AILBIEA, and the Society Achievers "Pride of India Honour" for his contributions to entrepreneurship, sustainability, and philanthropy. Other notable recognitions include the 'Green Business Titan' Award by JSW & The Times of India, the King Husein Global Business & Intercultural Peace Award, and the Qimpro Platinum Standard in Business medal.

Mr. Godrej's illustrious career continues to inspire through his unwavering commitment to sustainability, business excellence, and societal progress.

PERSONAL

Science, linguistics, swimming and poetry; author of "Life and Other Poems" & “Nadir Godrej The Poet”, a collection of English and French poems. Mr Godrej is known to make speeches in verse!

Guest of Honour ...



Prof. Anirudhha Bhalchandra Pandit

Prof.Anirudhha Bhalchandra Pandit
Professor A. B. Pandit
Ph.D. (Tech. Chemical Engineering), (UDCT Mumbai) (1984),
B. Tech. (Chem.), Institute of Technology, Banaras Hindu University (1975-1980)
(F.T.W.A.S., F.N.A., F.N.A.E., F.N.A. E. (USA), F.N.A.Sc., F.I.A.Sc., F.M.A.Sc.)
Vice Chancellor, Institute of Chemical Technology Professor, UGC Research Scientist, "C"
J. C. Bose National Fellow (D.S.T., Govt. of India) (2015-2020; 2020-2025) Email id: ab.pandit@ictmumbai.edu.in

Research Interests:

Physical and Chemical Processing applications of Cavitation phenomena, Sonochemistry, Ballast Water Treatment, Study of opportunities in industrial wastewater treatment and its reuse applications, Synthesis of chelating agents for wastewater treatment, Mixing in Mechanically agitated contactors: Experimental and CFD Investigations, Design of nozzles for hydrodynamic cavitation: Experimental and CFD Investigations, Modelling of Stoves, Optimization of cooking devices, Polymer Degradation, Cellulose Dissolution, Use of non-conventional energy sources, Development of novel ceramics from waste, Synthesis of Nanomaterials (organic-inorganic), Pyrolysis of biomass for value-added products, Application of biochar for improving soil fertility, Life Cycle Assessment (LCA) Studies, Portable device for detection of heavy metal, bacteria

Guest of Honour ...

and water contaminants, Biotechnology: Microbial disinfection using hydrodynamic cavitation, Protein modification, Cell disruption, Selective recovery of intracellular biomolecules at the cell disruption stage, Magnetic Nanoparticles (MNP) for enzyme immobilization, Microbial fuel cell, Portable microscope for diagnosis and educational purposes, Degumming enzyme development for textile industry.

Subjects Taught:

Environmental Engineering and Process Safety, Chemical Project Economics, Design of Multiphase Reactors, Project Engineering & Economics, Separation Processes

Research profile :

- Recognized Research Guide for Ph.D. as well as Master's Students:
- Completed: Ph.D.: 70; Master's: 100 Ongoing: Ph.D.: 6 ; Master's: 4
- International Research Publications (on 12-09-2024): 465 (Scopus), Google Scholar (595)
- Total Citations (updated: 12-09-2024): 38882 (Google Scholar), 27807 (Scopus)
- H-Index (updated: 12-09-2024): 105 (Google Scholar), 89 (Scopus)
- National and International Patents (Applied + Granted): 50 +
- Book Chapter : 21, Book :6
- Lecture/Talk in (National and international conferences and institution) :250
- Research Project (Govt. sponsored + Industrially sponsored): 32 (Completed), 4 (Ongoing)

Current Positions held:

- Vice Chancellor, Institute of Chemical Technology (Mumbai, Jalna, Bhubaneshwar Campus)
- Vice President, INAE (Academic, Professional and International Affairs)
- President, Asia Oceania Sono chemical Society Board (2020-2023)
- Vice Chancellor, Dr. Babasaheb Ambedkar Technological University (Feb-2021 to Jan-2022)
- President, the Board of Governors at Rajiv Gandhi Institute of Petroleum Technology, UP (2024)

Membership of important Committees:

- Member of DST-FIST
- Member of UGC-SAP
- Member of DST ChemEngg PAC
- Member of DST MOFPI PAC
- Adjunct Professor at BIT's Goa Campus
- Member, Board of Governor of IIT Bombay

Guest of Honour ...

National and International Fellowship:

- Fellow, National Academy of Engineering US, 2023
- Fellow The World Academy of Sciences, 2015
- Fellow, National Academy of Sciences in India, Allahabad, 2009
- Fellow, Indian National Science Academy, 2008
- Fellow, Indian Academy of Sciences, 2008
- Fellow, Indian National Academy of Engineering, 2006
- Fellow, Maharashtra Academy of Sciences, 1996

Membership of Editorial Boards with the name of the journal:

- Ultrasonics Sonochemistry (USS)
- Chemical and Biochemical Engineering
- Chemical Engineering and Processing: Process Intensification
- International advisory board, Industrial Engineering, and Chemistry
- Associate editor INAE Letters
- International advisory board, Canadian Journal of Chemical Engineering.

Private Industries/Societies/NGO Positions:

- Chairman, HyCa Technology Pvt. Ltd., Mumbai
- President, Land Research Institute (LRI) Charitable Organization involved in Land Mass and Energy Conservation
- Member, Board of Governors and Past President, UDCT Alumni Association
- Non Executive director in RevolteQ Technologies Private Limited, Gujarat
- Non Executive director in SCOPGENx Private Limited Gujarat
- Non Executive Director in AstraAgies Private Limited, Gujarat
- Indipendent director, Arati Industries Limited, Maharashtra

Awards (last five years):

- Vishwakarma Medal, Indian National Academy of Science (I.N.S.A.), 2015
- Sir J. C. Bose Fellow of the Department of Science and Technology, 2015
- India Innovation Growth Programme 2.0 Award (I.I.G.P.), 2017
- Outstanding Young Chemical Engineer (I.I.C.H.E.), 2017
- 'Shree Mokashi Innovation Endowment Award' 2016-2017 received at Institute of Chemical Technology, Mumbai
- Prof. R. A. Rajadhyaksha Best Teacher Award of UDCT, 2018
- India Innovation Growth Programme 2.0 Award (I.I.G.P.), 2018
- Outstanding Young Chemical Engineer (I.I.C.H.E.), 2018
- Zee 24 Taas Young Innovator Award, 2018
- 3M-CII Young Innovator Challenge Award, 2018
- National Bio-entrepreneurship Competition ABLE BEST, 2018
- C-Zero Challenge Award (Novel Microbial Disinfection), 2018
- C-Zero Challenge Award (Novel Ceramics), 2018
- 'Best research group' by ICT Mumbai 2018

Guest of Honour ...

- 'Shri G. M. Marve Prize for Most Research-Oriented group' from Chemical Engineering, 2019
- Aarohan Social Innovation Award- Gold Category, Infosys 2019
- Finalist Open Innovation Challenge, organized by DST-Lockheed Martin-Tata Trusts 2019
- Gandhian Young Technological Innovation award/ appreciation -2019
- 'Outstanding Achievement in R & D' CHEMTECH Leadership & Excellence Award, 2019
- 'Best Teacher Award (Final Yr. B.Tech.)' of the year 2018-19; Best Teacher Award, ICT, Mumbai, on 17 occasions out of 22 years, 1991-2022
- ICC D. M. Trivedi Lifetime Achievement Award for Contribution to Indian Chemical
- Industry (Education & Research) For the Year, 2020
- 'Best Teacher Award' at Institute of Chemical Technology, Mumbai, on 17 occasions out of 31 years of service, 1991-2022
- Secured First Position as the Best Scientist in India by Research.com, (https://research.com/scientists-rankings/engineering-and-technology), 2022
- Eminent Engineer Award 2021 of the Engineering Council of India (ECI) for the Research and Consultancy Category, (http://www.ecindia.org) 2022
- Sir J. C. Bose Fellow of Govt. of India supported by DST SERB (2014-2019, 2020-2025)

ISCMA Activity Report

ISCMA 67th Annual Get-Together

ISCMA Activity Report

ISCMA Activity Report

ISCMA delegates met with Odisha Chief Minister Mr. Naveen Patnaik on 27th Feb 2023 for investment in Chemical Sector in Odisha Cluster.

Left to right- Mr. Sanjay Sahu, Mr. Abhijit Adhatrao, Mr. Harshad Shah, Mr. Sandeep Chokani, Hon. CM-Odisha Mr. Naveen Patnaik, Mr. Vinay D Patil-President ISCMA, Mr. Umashankar Mahapatra, Mr. Gunjan Yajnik

MoU signed between RCPSDC and ISCMA on 15.02.2023

MOU signing was done in the presence of Mr. Vinay Patil President, ISCMA and Mr. Saif Mohammad CEO, RCPSDC and Industry members

Digital Solutions for The Substitution of Hazardous Chemicals in the Fashion Supply Chain

Left to right- Mr. Purvesh Jain, Mr Senthil Nathan.V, Mr. Ganesh Kasekar, Mr. Umashankar Mahapatra, Dr. Rossitza Krueger, Mr. Vinay D Patil, Mr. Sanjay Harane

ISCMA Activity Report

ISCMA Annual Awards to ICT Students, Best Outstanding Professor, Support & Non-Teaching Staff

Professor P. R. Gogate, Department of Chemical Engineering received Best Outstanding Professor award for the year 2021-22
From Left to right Mr. Deepak Bhimani, Prof. A.B. Pandit, M. Rajendra Gogri, Mr Parag Gogate, Mr. Vinay Patil, & Mr. Subhash Udeshi

From Left to right Mr. Vinit Patel, Mr. Deepak Bhimani, Prof. A.B. Pandit, Mr. Rajendra Gogri, Mr. Vinay Patil, Mr. Subhash Udeshi & Dr. Kishore M Shah

ISCMA President Mr. Vinay D Patil welcoming Chief Guest Mr. Rajendra Gogri, (Chairman & Managing Director-Aarti Industries Ltd.)

ISCMA Signed MoU with USIIC for Bilateral Trade Speciality Chemicals

ISCMA Activity Report

Spotlight on Speciality Chemicals: CSB Bank partners with CRISIL Market Intelligence, ISCMA & SME Communities for landmark Chemical Industry Conference

From Left to Right- Mr. Pratik Raychaudhuri, Mr. Manish Modi, Mr. Umasankar Mahapatra, Mr. vinay Patil, Mr. Yashwant Jhaveri, Mr. Rajive Shah, Mr. Manish Agarwal, Mr. Shyam Mani, Mr. Prashant Laxmeshwar

Mr. Manish Modi (Head Wholesale Banking, CSB Bank) presented the memento to Mr. Vinay Patil (ISCMA Immediate Past President)

Mr. Manish Agarwal (CCO-Retail & SME, CSB Bank) presented the memento to Mr. Yashwant Jhaveri (ISCMA, President)

ISCMA in association with ICICI Securities Private Wealth Management organized Exclusive session on 7th August

Mr. Yashwant Jhaveri (ISCMA President) addressing the gathering during the event.

Mr. Yashwant Jhaveri (ISCMA President) welcoming Mr. Abhay Udeshi (Chairman, Chemexcil)

Mr. Yashwant Jhaveri (ISCMA President) welcoming Mrunali Elle (Deputy Director, Chemexcil)

ISCMA Activity Report

New Year Get-together held on 29th November, 2024

ISCMA Activity Report

Dr. Yashwant Jhaveri at the inauguration ceremony of ChemExpo 2025

Events organised / attended by ISCMA from 09.12.2022 onwards

Sr. No.	Event Topic	Event Date	Venue
1	Annual Get-together	09.12.2022	National Sports Club of India, Worli, Mumbai
2	ICT Award Function	09.03.2023	Prof. K. Venkataraman Auditorium, ICT, Matunga, Mumbai
3	Interactive session on "Leadership for Businessmen - Based on Bhagwat Geeta" by Mr. Vinay Patrale	15.06.2023	Survanshi Kshatriya Sabhagriha, Dadar West, Mumbai 400028
4	Interactive session on " Role of Ethics in Business" by Prof.(Dr.) Mangesh Teli	25.08.2023	Survanshi Kshatriya Sabhagriha, Dadar West, Mumbai 400028
5	Annual Get-together	23.11.2023	Matunga Gymkhana
6	RCPSDC Industry Skill Meet Presentation	24.11.2023	ISCMA office, Dadar West, Mumbai 400028
7	Participation in Global Chem Expo	Dec-23	
8	Interactive session on "Human Resource Management Skills fri Bhagwat Geeta"	21.12.2023	
9	ISCMA Members Meeting with Indo-German Chamber of Commerce	30.01.2024	Taj President
10	Advantage India Chemical Conclave 2024	23.02.2024	Kohinoor Continental - Inaugutated by President Mr. Yashwant Zaveri
11	Contract Manufacturing - "Outsourcing"	21.03.2024	Survanshi Kshatriya Sabhagriha, Dadar West, Mumbai 400028
12	Hunar Hai Toh Kadar Hai - Motivational speech by Prof.(Dr.) Dinesh Gupta	27.03.2024	ITI Ambernath for ITI students
13	Chemical Effluent Treatment Plant Operator Training - 1ST Batch	Oct. 2023 - Dec. 2023	ITI Ambernath

ISCMA Activity Report

14	Chemical Effluent Treatment Plant Operator Training - 2nd Batch	Jan. 2024 - Mar. 2024	ITI Ambernath
15	Participation in Chem Expo	Apr-24	
16	ICT Award Function	22.07.2024	Prof. K. Venkataraman Auditorium, ICT, Matunga, Mumbai
17	Market Outlook & Opportunities for MSMEs' in Association with ICICI Securities Private Wealth Management	07.08.2024	Survanshi Kshatriya Sabhagriha, Dadar West, Mumbai 400028
18	SME Infocus	23.08.2024	J W Marriot
19	Tech-Bond Solutions - USA President & CEO visited ISCMA Office (Market in India and Possible Colaboration	27.08.2024	ISCMA office, Dadar West, Mumbai 400028
20	New Year Get-together	29.11.2024	Matunga Gymkhana
21	Interactive session on "Contract Manufacturing - Outsourcing" by Dr. Hemant S. Joglekar - Management consultant, Mentor & Coach	19.12.2024	Conference Room, Bombay Exhibition Center, NESCO, Goregaon, Mumbai during Global ChemShow 2024
22	Interactive session on "Think & Grow Profitable- Unlocking a success driven mindset for the Chemical Industry	19.12.2024	Conference Room, Bombay Exhibition Center, NESCO, Goregaon, Mumbai during Global ChemShow 2024
23	"Session on "Emerging trends in Wastewater/Sludge Treatment" in association with Tarapur Industrial Manufacturers' Association (TIMA)	27.02.2025	TIMA Conference Hall, Tarapur
24	Discussion on Chemical Sector with Industry Associations and EPCs	23.04.2025	Virtual meeting with Dept. of Commerce
25	ChemExpo 2025	29.04.2025 to 30.04.2025	NESCO, Goregaon

ISCMA Export Award 2025

Small Scale Sector

M/s. Sauradip Chemical Industries Pvt. Ltd.

Medium Scale Sector

First place

M/s. Val Organics Pvt. Ltd.

Second Place

M/s. Navdeep Chemicals Pvt. Ltd.

ISCMA Member's News

Shri. Rajive Shah has been awarded "Rasayan Udyog Yuva Shri Award"

Shri. Rajive Shah - Managing Director of Sauradip Chemical Industries Pvt Ltd has been awarded "Rasayan Udyog Yuva Shri Award" by the hand of Prof. G. D. Yadav, President of Indian Chemical Society.

Sauradip Chemical Industries Pvt Ltd Has Been Awarded "Rasayan Udyog Shri"

Sauradip Chemical Industries Pvt Ltd received "Rasayan Udyog Shri" at Nehru Centre on 28th January, 2025.

ISCMA Member's News

Dr. Kishore Shah has been awarded Life Time Achievement Award at Century of Chemistry. The award was given by Bengal Governor Dr. Bose.

NEWS:-

We are happy to announce that our few of our members are elected as Life fellow by Council of Indian Chemical Society.

Following people received Lifetime Fellowship of Indian Chemical Society.

- Dr. Kishore Shah
- Shri. Rajive Kishore Shah
- Shri. Jaideep Kishore Shah
- Mrs. Tejal Jaideep Shah

Technical Paper

Green Surfactants

Raheel Shah
Sauradip Chemical Industries Pvt. Ltd.

Green surfactants are environmentally friendly surface-active compounds that break down naturally without harming the ecosystem. They are designed to be non-toxic and biodegradable, offering a sustainable alternative to traditional surfactants.

Types of Green Surfactants

Type	Derived From	Examples	Common Applications
Sugar-Based (APGs)	Glucose + fatty alcohols	Decyl glucoside, Lauryl glucoside	Shampoos, body washes, and surface cleaners
Amino Acid-Based	Amino acids + fatty acids	Sodium cocoyl glutamate	Gentle facial cleansers, baby care products
Saponins	Plant sources (e.g., yucca, soapwort)	Natural foaming agents	Herbal shampoos, traditional natural soaps
Biosurfactants	Microbial production	Rhamnolipids, Sophorolipids	Bioremediation, pharmaceutical products
Fatty Acid Esters	Vegetable oils	Sorbitan esters (Span), Polysorbates (Tween)	Used as emulsifiers in food and cosmetics

Why Choose Green Surfactants?

- Eco-Friendly: They help reduce environmental pollution.
- Gentle on Skin: Less irritating, ideal for sensitive skin types.
- Sustainable: Often made from renewable sources, lowering their carbon footprint.

Chemical Makeup of Green Surfactants

All surfactants share a basic structure of two parts:

- Hydrophobic (water-repelling) tail: Typically derived from natural oils like coconut or palm.
- Hydrophilic (water-attracting) head: Made from sugars, amino acids, or microbial products.

This amphiphilic structure allows them to clean by binding both oil and water.

Green vs Traditional Surfactants

Feature	Green Surfactants	Traditional Surfactants
Source	Natural (plants, microbes)	Synthetic (petroleum-based)
Toxicity	Low	Often moderate to high (e.g., SLS)
Biodegradability	High	Varies
Cleansing Power	Good (milder)	Stronger, but may be harsher
Cost	Generally higher	Usually more economical

Market Outlook & Trends

- Global Growth: The green surfactant market was worth about USD 2.58 billion in 2024, with expectations to reach USD 4.02 billion by 2030 (CAGR of 7.7%).

  Regional Insights:
  - o Europe: Leading the way with nearly 45% market share, driven by eco-regulations.
  - o North America: Holds over 25% share, with the U.S. projected to top in revenue by 2030.
  - o India: Poised for the fastest growth in the Asia-Pacific region through 2030.

Challenges Facing the Industry

- High Production Costs: Natural raw materials and purification processes remain expensive.
- Scalability: Inconsistent production methods make it difficult to manufacture at competitive prices.

Applications of Green Surfactants

- Personal Care: Used in organic skincare, shampoos, and baby care due to their mildness and safety.
- Household Cleaning: Growing demand for eco-safe, non-toxic cleaning solutions.
- Industrial Cleaning: Valued for their foaming, dispersing, and emulsifying abilities.
- Oil & Gas Industry: Applied in oil recovery and cleaning up oil spills due to their biodegradability and effectiveness.

Technical Paper

Closing the Loop: Water Recycling Strategies for Open Cooling Water Systems

Binoy Jhaveri
Executive Vice President, Vasu Chemicals LLP

Introduction: Rising Pressure on Industrial Water Use

Industrial facilities are increasingly under pressure to reduce their freshwater consumption due to growing water scarcity, higher input costs, and stricter environmental regulations. Among the largest water consumers in industry are recirculating cooling water systems. Within these systems, the discharge of blowdown water—essential to manage dissolved solids and other contaminants—represents a significant and often overlooked opportunity for significant water savings. This article presents an overview of cooling water systems and followed with two case studies on successful water savings: one at a steel mill and another at a refinery, both of which implemented different innovative solutions to recycle blowdown and treated effluent water as cooling tower make-up. This helped reduce fresh water demand. It also explores the chemical treatment strategies necessary to operate such systems reliably and at high efficiency.

Water Balance of Cooling Towers – Opportunities and Challenges

Cooling towers work by transferring heat from process water to the atmosphere through evaporation. As water evaporates, the remaining water becomes concentrated with dissolved solids. To prevent microbiological fouling, scaling and corrosion, a portion of the circulating cooling water must be discharged as blowdown, with fresh make-up water added to maintain the balance.

In addition to the water initially filled and then continuously circulating in the cooling water system, the water balance in a cooling tower includes the following components:

- Make-up Water – Fresh water added to replace losses
- Evaporation Loss – Pure water lost as vapour during cooling
- Drift Loss – Fine droplets carried away with the exhaust air
- Blowdown – Water intentionally discharged to control dissolved solids

A critical operational parameter is the Cycle of Concentration (COC), which indicates how many times the dissolved solids in the make-up water are concentrated in the recirculating water. It is defined as: COC = (TDS of circulating water) / (TDS of make-up water)

A higher COC reduces blowdown volume because the same amount of solids is tolerated in a smaller amount of discharged water. This also means that less make-up water is required. For example, increasing the COC from 3 to 6 can nearly halve the blowdown volume, provided the water chemistry is well controlled. Thus by improving the makeup water quality, the tower can operate at a higher COC and thus reduce the blowdown and water loss.

Case Study 1: Steel Mill Blowdown Recycling

At a steel plant, we designed and implemented a cooling tower blowdown recycling system to improve water efficiency. The plant, with a capacity of 500 m3/hr hour, utilized the following scheme: High-Rate Solids Contact Clarifier -> Multigrade filtration -> Ultrafiltration (UF) -> Reverse Osmosis (RO).
The clarifier removed suspended solids and turbidity, with the help of coagulants and poly-electrolytes. The filtered water then passed through UF membranes to eliminate colloidal and organic matter, and finally through RO to remove salts, hardness, and silica.

The treated water achieved significantly reduced TDS and Chloride levels and thus improved water quality This high-quality RO permeate was successfully used as make-up, enabling the cooling tower to run stably at a much higher COC then before. The plant realized significant water savings, reduction in chemical usage, and a fast payback period.

Case Study 2: Reusing Treated Effluent at a Refinery

A refinery customer wished to reuse treated ETP/STP water as cooling tower make-up.

The treated effluent presented complex challenges, including high levels of organics (TOC, COD), occasional oil ingress, elevated iron and suspended solids, and biologically active components such as ammonia and sulfides, which encourage sulfate-reducing bacteria.

We developed a customized chemical treatment program based on extensive analysis of historical water quality data and operational conditions. The treated effluent was disinfected at the source using chlorine dioxide before being introduced into the cooling system. Supported by a comprehensive chemical treatment plan and intense technical monitoring, the recycled water was used reliably as make-up without compromising cooling system performance. The plant achieved higher heat transfer efficiency, increased COC, and substantial reductions in blowdown and discharge volumes.

Optimizing Chemical Treatment for Recycled Cooling Water

Whether recycling blowdown or treated effluent, maintaining cooling tower reliability depends on a well-designed chemical treatment program. Scale inhibitors are essential for preventing scale formation, especially when operating with high silica or hardness. Biocides, including chlorine dioxide, are critical in controlling microbial growth in systems exposed to organic loads. Corrosion inhibitors are chosen based on metallurgy, while dispersants manage oil, turbidity, and residual organics. The integration of these chemicals into a responsive program ensures that the system can adapt to changing source water quality and plant conditions.

Sustainable Cooling Tower Operations Are Within Reach

The combined strategies of recycling blowdown and treated effluent, backed by robust chemical treatment, enable industrial cooling systems to operate at higher efficiency while consuming significantly less freshwater. The two case studies presented above—at a steel mill and refinery—demonstrate that such approaches are technically feasible, economically attractive, and operationally sustainable. As water scarcity deepens and environmental compliance becomes more demanding, forward-looking industries in India are increasingly adopting these integrated water management practices to ensure long-term resilience and sustainability.

About the author

Binoy has a bachelor's degree in Chemistry from Cornell University and a master's degree in Chemical Engineering from Columbia University, USA.

After working at Halliburton USA in Houston for 1 year, he is now Executive Vice President at Vasu Chemicals LLP and Halliburton Vasu Solutions LLP in Mumbai. He is passionate about Energy and the Environment

Technical Paper

Semi-synthetic dyes: A step closer towards sustainability

Pawan Maharana, Saptarshi Maiti* and Ravindra V. Adivarekar
Department of Fibres and Textile Processing Technology, Institute of Chemical Technology, Matunga (East), Mumbai-400019, India.
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Synthetic dyes, first discovered by Sir William Henry Perkin in 1856, have significantly contributed to the expansion of the textile industry. Azo dyes, in particular, dominate the market, representing 60–70% of dyes used in textiles. However, the widespread use of synthetic dyes raises serious environmental and health concerns due to their non-biodegradability and the toxicity of their chemical components. Many synthetic dyes are resistant to degradation and have been linked to mutagenic and carcinogenic effects.

Globally, over 100,000 types of synthetic dyes are used across industries, with an annual production of 800,000 tonnes. Oot of this, approximately 20,000 tonnes are discharged into the environment through industrial effluents, contributing to significant aquatic pollution. Such pollution reduces light penetration, hampers photosynthesis in aquatic plants, and increases biological and chemical oxygen demand. Moreover, the use of heavy metals in dye production presents long-term environmental risks. Dyes play a crucial role across a wide range of industries, including textiles, food, cosmetics, and paper production. Historically, synthetic dyes have dominated the textile sector due to their vivid colours, reproducibility, and cost-effectiveness. However, increasing awareness of the environmental and health hazards associated with synthetic dyes—such as toxicity, persistence in the environment, and harmful by-products—has prompted a shift in focus towards more sustainable alternatives. In response, significant research has been directed at developing eco-friendly dyeing solutions, with natural dyes gaining attention for their biodegradability, low toxicity, and derivation from renewable sources.

Natural dyes have long held cultural and historical significance, having been used as textile colourants since ancient times. Sourced from renewable materials such as plants, insects, and minerals, these dyes are valued for their non-toxic and environmentally friendly nature. Some of the popular examples include indigo from Indigofera tinctoria, alizarin from madder roots, and carminic acid from cochineal insects. Natural dyes are most commonly used in conjunction with natural fibres, often through a mordanting process that enhances dye adherence. This technique involves applying a mordant to the fabric, which binds with phytochemicals like flavonoids and alkaloids, facilitating a strong interaction between the dye and the fibre. Mordanting not only improves dye uptake on natural fibres but also enables dyeing of synthetic substrates that typically lack affinity for natural dyes.

Advances in dyeing technologies have facilitated the application of natural dyes using modern methods such as supercritical CO_2 dyeing, plasma treatment, ionic liquid-based dyeing, and ultrasound- and microwave-assisted processes. These techniques are complemented by innovative extraction methods designed to enhance dye yield and process efficiency. In addition to their eco-friendly profile, natural dyes possess functional properties such as antibacterial and UV-protective capabilities. Extracts from Mentha spicata and Thymus vulgaris have been shown to impart antibacterial properties to cotton and wool fabrics, particularly when used with copper-based mordants.

Despite thee benefits, several limitations hinder the widespread industrial adoption of natural dyes. Techniques such as supercritical fluid extraction, while effective, are expensive and require specialized equipment, posing economic challenges for large-scale operations. Additionally, ultrasound- and microwave-assisted methods often face scalability issues. Natural dyes also suffer from issues such as limited shade range, lower colour fastness, and poor compatibility with synthetic fibres. Seasonal fluctuations in raw material availability and inconsistencies in shade due to variations in natural sources further complicate commercial utilisation.

To overcome such challenges, researchers have been exploring on the chemical modification of natural dyes to enhance their properties. This strategy aims to combine the environmental benefits of natural dyes with the durability and performance of synthetic ones. Chemically modified natural dyes, or semi-synthetic dyes, represent a promising compromise. For instance, emodin extracted from Japanese knotweed has been modified via nitration, chlorination, and sulfonation, yielding multiple dye variants with improved performance and preserved antibacterial properties. Esterification of various natural dyes has also been explored for compatibility with supercritical CO_2 dyeing, offering feasible solutions for dyeing natural fibres in an eco-friendly manner.

These semi-synthetic dyes, derived from natural sources but chemically enhanced, are typically synthesised using milder, less hazardous processes. The integration of plant-derived extracts with synthetic components allows for improved dye performance while reducing reliance on toxic reagents. As multi-component dyes, they align with green chemistry principles, promoting sustainable industrial practices.

Technical Paper

Future of Textile in India: Environment, Social, Governance

Textile, a fundamental human need, is credited as the catalyst for industrialisation, marked by the first mechanised weaving. Over the past two centuries, innovations in man-made fibres, high-speed machines, colourants, and functional chemicals paved the way for automation, leading to the digitisation era in Industry.

The Farm to Fashion supply chain involves diverse fibres from natural and synthetic materials. The Finishing (wet processing) stage is particularly complex, consuming substantial natural resources and generating significant carbon and water footprints.

The environmental impact of solid, liquid and gaseous emissions from the textile wet processing is a critical concern. The focus is on sustainable practices in textile wet processing, emphasising the optimisation of utility (water, energy, time), ensuring sustainability across ecological, economic, and social aspects, and promoting circularity through the principles of reduce, reuse, and recycle.

Textile applications expand beyond apparel to home decor and technology, driven by increasing consumer demands for utility and adherence to strict eco-conformance standards, compelling manufacturers to embrace innovative technologies.

Indian Textile Industry

The textile sector plays a significant role in the national economy, contributing about 4% of GDP & ~14% to total industrial production

- India is the world's 3rd largest exporter of Textiles and Apparel (T&A).
- India has a share of 4.6% of the global trade in T&A.
- The textile sector provides direct employment to around 45 million people and another 60 million indirectly through allied activities.

Challenges of the Indian Textile Industry

- Global Competition and Raw Material Dependency: Low-cost manufacturing countries (e.g., China, Bangladesh) pressure the Indian market.
- Cotton production: over 25% of global production area, but only 8% of global value output.
- Operational Constraints: predominance of small and medium-sized enterprises (SMES).
- Technological Obsolescence: fragmented supply chains, limited capital availability, outdated machinery, slow technology adoption, skill gaps, and insufficient research and development investments.
- Infrastructure: limitation
- s in facilities like Common Effluent Treatment Plants (CETP).
- Water consumption: almost 90% of the water used by the factory ends up as effluent.
- Chemical consumption: Extensive use of harmful chemicals poses risks to workers and the environment.

Environment, Social, Governance (ESG) and Sustainability

- Serves as a framework to assess organisational impact, wherein sustainability aligns with the principle of meeting present needs without compromising future generations, ultimately fostering accelerated growth for industries, employers, employees, and the community, highlighting the importance of designing sustainability for planned and stable growth in India.
- Meets the demand of various stakeholders in the textile value chain, it is imperative to innovate and develop technologies that can fulfil growing needs continuously.

Advancements and Innovations

- Fiber: conventional substrates are getting replaced by novel fibrous materials extracted from various renewable sources which are also byproducts of main crop like cellulosic fibers from Banana, Pineapple, Hemp, Elephant grass, etc. using cost-effective biotechnological extraction and using sustainable alternatives like Poly Lactic Acid (PLA) from renewable resources, as regenerated fibers.
- Machine: conventional high liquor ratio batch-wise processing machines are paving the way to low and ultra-low liquor ratio technologies for reduced water and energy consumption. Airflow instead of soft flow, E-control instead of conventional PDPS, Supercritical CO2 for polyester dyeing, short liquor package dyeing machines for synthetics, etc.
- Water: being a universal solvent, abundantly available and a negligible cost component, textile processing uses water as the medium of application, which is why it is traditionally called wet processing. However, with growing concerns over effluent generation and pollution of water bodies, the non-aqueous method of dyeing is gaining importance.
- Water-Less Dyeing Techniques include air dye and supercritical fluid technology, for polyester dyeing using disperse dyes.
- Colourant: Though no new dye range was developed after the introduction of Reactive dyes in 1956, many new products within the existing class of dyes were introduced with the specific objective of increasing colour exhaustion and lesser load on effluent with additional performance and functional property improvements, which filled the gaps in the shade gamut. and enhanced the extent of colour fixation.
- Chemical: Textile processing is a chemical-intensive segment, where a large quantity of auxiliary chemicals, along with colourants, are used in non-aqueous support components to intensify the application.
- Substituting chemicals like acids, alkalis, salt, oxido-reductive material, thickeners, surfactants, dispersants, sequestrants, etc., with non-toxic, eco-friendly alternatives using green chemistry.
- Processing: Many innovative technologies have been developed and are being explored to improve performance efficacy, such as Ultrasonic Technology by utilising waves for enhanced dye diffusion, Microwave Technology by applying vibrational energy for optimum colouration, and electrochemical reduction for Vat and Sulphur dyes.

Government Facilitations

- India is a signatory to the Stockholm Convention and is on track with controlling, minimising and eliminating the Persistent Organic Pollutants (POPs).

Technical Paper

- National Implementation Plan (NIP) to prevent or eliminate hazardous chemical pollution from the supply chains of fashion and construction and significantly improve environmental sustainability.
- Schemes to utilise waste salts generated from CETPs/ETPs of Textile manufacturing/processing industries to recover salt for industrial use.
- Adoption of cleaner technology for waste minimisation and utilisation of spent acid generated from dye & dye intermediate, chemical manufacturing and textile industries as neutralizing agent in ETP/CETP.
- Adopting a chemical management system (CMS) for the wise use of chemicals in industrial processing
- The expected outcomes within the next three years include a 30% reduction in water consumption, a 20% decrease in energy consumption, and a 25% reduction in hazardous chemicals, ultimately leading to a 30% decrease in carbon emissions in the upcoming year.

Technical Paper

Improving the environmental impact of dyeing processes - Cotton knitwear

Innovative Pretreatment and Dyeing Technologies for a Sustainable Textile Industry

Jörg Schad, Teresa Copete, Teresa Mas
Pulcra-Chemicals (Europe)

The fashion industry, known for its significant environmental impact, is facing increasing pressure to adopt more sustainable practices.

In response to this need, the present study aims to transform the preparation and dyeing processes in textile manufacturing, reducing water and energy consumption, and minimizing the carbon footprint.

Textile production is one of the most polluting industrial activities. Renowned global agencies affirm this. Some revealing examples show that producing a single cotton T-shirt requires approximately 2,700 liters of clean water[1], and that textile dyeing generates a significant amount of wastewater, representing 20% of global water pollution[2].

To tackle this challenge, new processes have been developed based on innovative chemicals that reduce the number of baths and the temperatures needed for dyeing cotton with reactive dyes, with the goal of mitigating the environmental impact of dyeing processes and promoting sustainability in the textile industry.

The study is divided into two parts. The first aims to reduce the number of dye baths by enabling preparation and dyeing to take place in a single bath. The second part focuses on lowering the temperature of the soaping process, traditionally carried out at 95°C, and decreasing the number of post-wash baths. This approach not only saves water and energy but also reduces the carbon footprint and processing time.

To ensure the quality of textile items without requiring investment in expensive machinery, it has been necessary to develop more versatile and robust chemical auxiliaries.

[1]Source: EPRS 2019,2020
[2]Source: World Bank

Development of a New Dyeing Process for Cotton Knit Fabric with Reactive Dyes in Medium and Dark Shades

The first part of the study aims to modify fabric preparation so that dyeing can take place in the same bath without altering the dyeing conditions — meaning the same dyes and procedure (addition of salt and alkali).

The second part seeks to reduce the soaping temperature without affecting the quality of the fabric and to achieve color fastness levels equal to or better than the standard process.

Process parameters were studied to achieve optimal fastness results.

Studied process parameters:

Number of baths
pH
Temperature
Bath ratio
Type of chemical auxiliaries
Dosage of chemical auxiliaries

Author's note: The process shown here is just one example of the cases studied.

Comparison of Standard and New Sustainable Process

The standard process consists of scouring in an alkaline medium at 80°C, followed by two rinses with water at room temperature, and then dyeing with reactive dyes at 60°C.

Soaping involves one rinse with water, two steps at 90°C, and then two more rinses at lower temperatures.

Total number of baths: 9; bath ratio 1:7. (Fig. 1)

The new process begins with fabric preparation in a neutral medium at 80°C using new chemical auxiliaries. Without changing the bath, the temperature is lowered to 60°C and dyes, salt, and alkali are added as in the standard process. Subsequent soaping is performed at lower temperatures: first a rinse at 40–50°C, followed by two baths at 40°C using a new chemical auxiliary that allows temperatures to drop from 90–95°C to 40°C, finishing with a rinse at pH 4.5–5 at room temperature.

Total number of baths: 5; bath ratio 1:7. (Fig. 2)

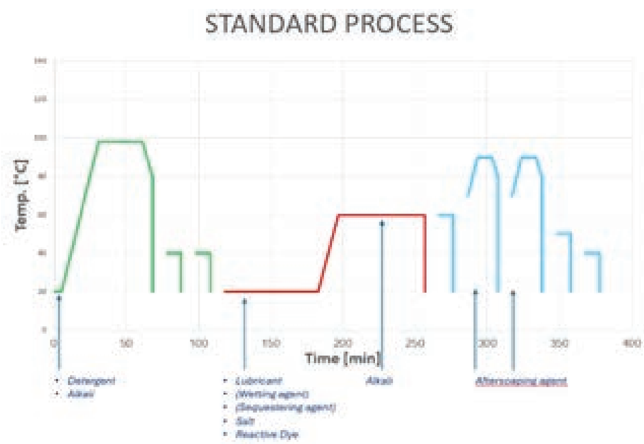


Fig. 1

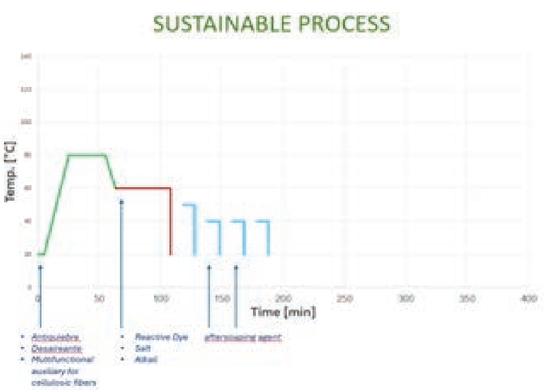


Fig. 2

Technical Paper

Key to Success:

The success of single-bath preparation and dyeing lies in the use of a special "multi-purpose product" that provides wetting, dispersing, chelating, and emulsifying properties, and is added at the beginning of the process.

During soaping, the help of a new chemical auxiliary developed in this project allows temperatures to be lowered from 90–95°C to 40–50°C.

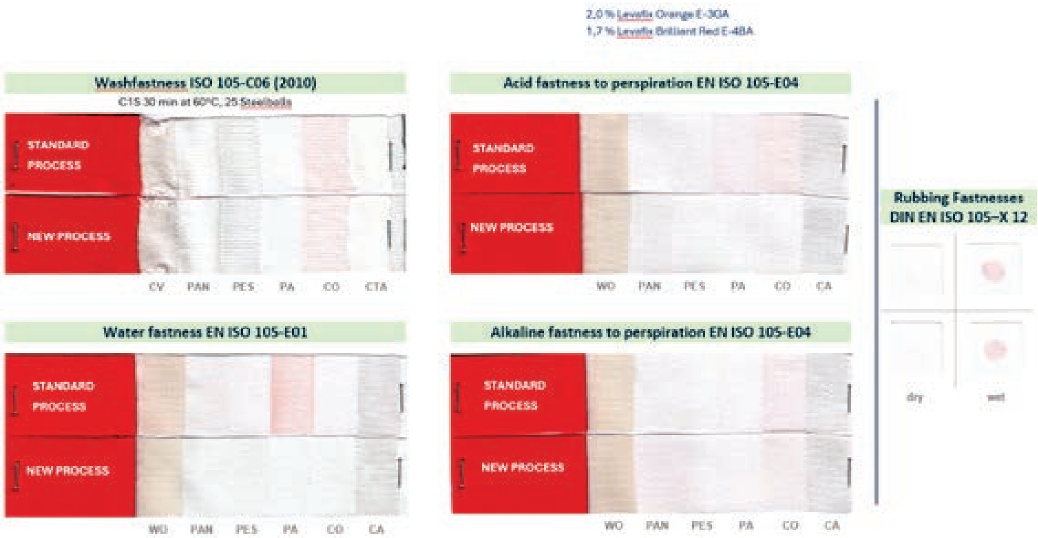
Comparative Color Fastness Results:

Any new process to be adopted by the industry must ensure fabric quality is not compromised. Therefore, it is essential that the fastness results of the new process are equal to or better than those of the standard process.

In the example (Fig. 3), a fabric dyed red was tested for the following fastness properties:

- Wash fastness (ISO 105-C06(2010))
- Water fastness (EN ISO 105-E01)
- Acid perspiration fastness (EN ISO 105-E04)
- Alkaline perspiration fastness (EN ISO 105-E04)
- Wet and dry rub fastness (DIN EN ISO 105-X12)

The fastness results for the standard and new processes are nearly identical, ensuring the quality of the dyeing is maintained.



(Fig. 3)

Benefits of the New Dyeing Process for Cotton Fabric with Reactive Dyes in Medium and Dark Shades:

- **Lower electricity and steam consumption:** Operating at lower temperatures significantly reduces energy usage.

- **Reduced Carbon Footprint:** Lower energy consumption leads to reduced CO_2 emissions.
- **Water savings:** Fewer baths result in lower water usage and less wastewater generation.
- **Increased productivity:** Shorter processing times improve efficiency and production capacity.
- **Automatic dosing:** Low-viscosity auxiliaries allow for precise, automated dosing and reduce waste.
- **Fabric quality:** The products developed for the new process ensure high fabric quality, good hydrophilicity, even color, and absence of stains.

(Fig. 4)

Conclusion

The new process represents a significant step forward toward a more sustainable textile industry. By reducing water and energy consumption, lowering the carbon footprint, and improving process efficiency, it not only supports environmental sustainability but also provides economic and quality benefits for textile manufacturers. This project is an example of how innovation and sustainability can go hand-in-hand to transform an industry and protect our planet for future generations.

(Fig. 5)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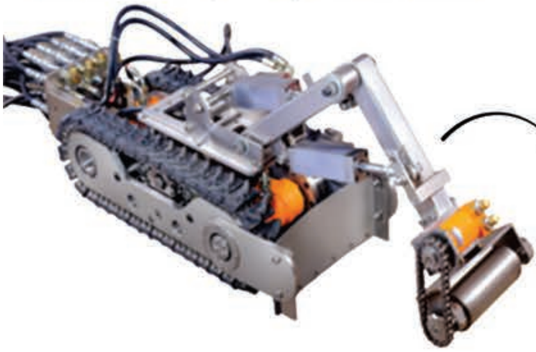

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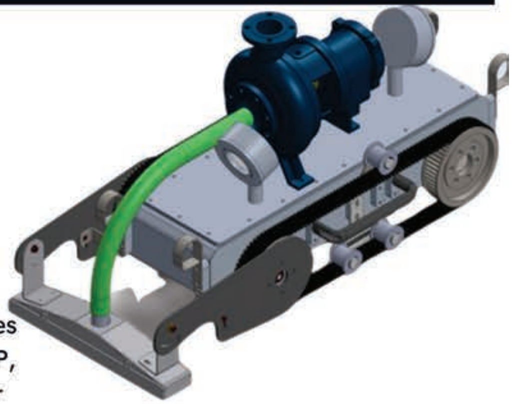

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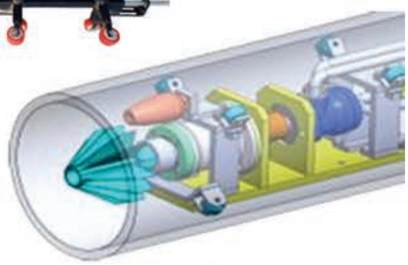

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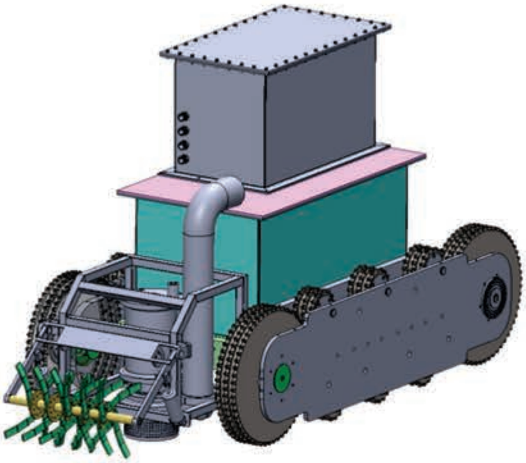

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