

# HORIZONS

ISCMA delegates met with Odisha Chief Minister Mr. Naveen Patnaik on 27<sup>th</sup> 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

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COMPANY PROFILE - Dust Control and Loading Systems

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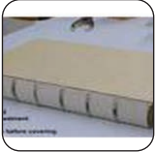
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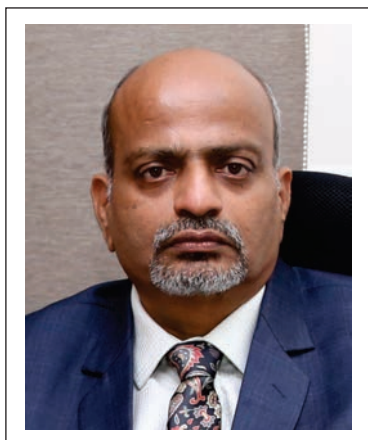
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## From The President's Desk



Dear Members,

There are many factors that favour India for manufacturing speciality chemicals domestic markets as well as export, imports and substitutes. Government new labour policy, manufacturers have access to land at reasonable prices and availability of power or more favourable compared to China manufacturers.

The China factor of the world loses dominance. India has to get benefits as an alternative to China in the area of manufacturing. The US has shown keen interest to provide necessary support by facilitating investment in India. Recently on 15th Feb 2023 ISCMA signed MoU with USIIC to promote trade in speciality chemicals and collaborate.

India surpassed the UK to become 5th largest economy. GDP forecast to grow by 8.9% from 2021 to 2027. India's urban market is continuously increasing. Global competitiveness improved. India's compound annual growth rate i.e. CAGR higher than China.

Potential for export speciality chemicals, Inorganic chemicals, Petro Chemicals is having better opportunities. Speciality chemical segment paper chemical, water management chemical, lubricating oil additives, corrosion inhibitors, rubber processing chemical, Antioxidants, Electronic chemicals, Construction chemicals, Adhesive & Sealants, Speciality polymer, Agro Chemicals, Food & Feed additives, Cosmetic chemicals, Flavour & Fragrance, Biocides, Plastic additives, Textile function chemicals, Dyes & Pigments, Surfactants etc.

In order to meet the challenges of the above sectors we need skilled human resources, R&D talent, Professionals in technology development & Scale up, Joint R&D, Design and developments of product and process, automation and digitalization, emergence of new technology. As technology changes skill development, apprenticeships training, on job training will be needed in the industry.

In order to meet all requirements ISCMA signed MoU with Skill development council & Apprenticeships council.

Let us hope the new financial year will be a great one.

Thanking You.

**Vinay D Patil**  
President, ISCMA



**INDIAN SPECIALITY CHEMICAL  
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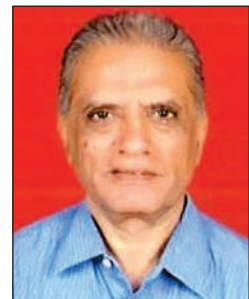
### Invitees



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Shri. Hardik Sampat  
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## MoU signed between RCPSDC and ISCMA on 15.02.2023

The Indian chemical industry is one of the most important components of our economy and contributes around 7% to the nation's Gross Domestic Product (GDP). Taking into consideration that India is the 6th largest producer of chemicals in the world and 3rd in Asia has aided the Indian chemical industry which is now set to capitalize on forthcoming opportunities. The specialty chemicals sector is reshaping the future of India's economic landscape with a renewed approach towards its products and solutions.

But to sustain this growth the major focus will now be on availability of skilled workforce for developing a strong ecosystem for the sector at various levels.

To overcome the challenges of non-availability of skilled manpower in the Chemical sector and to bridge this skill gap, Mr. Vinay Patil President ISCMA had discussion with ISCMA industry members and thereby agreed upon signing MoU with Rubber Chemical & Petrochemical Skill Development Council (RCPSDC).



RCPSDC set up by National Skill Development Corporation under the aegis of Ministry of Skill Development and Entrepreneurship is dedicated towards skill development and training for Rubber, Chemical and Petrochemical sector with the sole objective to providing skilled workforce to the industry thereby contributing towards the overall growth of the economy of our country.

MOU signing was done in the presence of Mr. Vinay Patil President, ISCMA and Mr. Saif Mohammad CEO, RCPSDC and Industry members on 15<sup>th</sup> Feb23 at Mumbai.

MoU was exchanged for developing a Skill development Centre and undertaking Skill training for the under privileged, school /college dropout Youth under Speciality Chemical sector.

RCPSDC will work closely with ISCMA in organising Skill Meet for bringing large cross- section of industries into the fold of skilling ecosystem by making them fully conversant with opportunities available for Reskilling & Upskilling their workforce and also various Government and non-government skilling initiatives.

ISCMA will also assist RCPSDC in developing National Occupational Standards (NOS) as per industry standards that will cater towards designing new industry- ready curriculum with focus on new emerging technology for the benefit of Industry members.

With this fruitful association with RCPSDC, ICSMA aims to provide job opportunity and uplift the livelihood of rural, unemployed under privileged youth of our country and overcome the non-availability of skilled man power in Speciality Chemical Sector.

## Sauradip Chemical Industries Visiting Fellowship Lecture at Institute of Chemical Technology

The lecture was arranged on 14th March, 2023 at ICT, Mumbai. welcoming the participants, Prof. Dr. Shashikant Mhaske thanked Dr. Kishore Shah Chairman for introducing Fellowship Lecture series for Surface Coating Dyestuff Technology and Textile processing.

Dr. Kishore Shah Speaking on the occasion said that they have introduced this fellowship lecture series, wherein every year eminent persons from industry would give a lecture with an aim of having interaction between industry and academia.

Rajive Shah Managing Director, Sauradip Chemical Industries Pvt Ltd spoke on the trust of developing “Sustainable Products for a greener planet “as the core of Sauradip philosophy.

Jaideep Shah Executive Director, Sauradip Chemical Industries Pvt Ltd spoke on having positive attitude is important in life. Further he spoke on offering World class service to customers should be at heart of every company and how world class companies strive to achieve the same.



**Dr. Kishore Shah addressing the gathering**



**Shri. Rajive Shah addressing the gathering**



**Shri. Sandeep Kokane being felicitated by Prof. A. B. Pandit, Vice Chancellor, ICT and Dr. Kishore Shah, Chairman, Sauradip Chemical Industries Pvt Ltd**



**From Right Shr. Rajive Shah -Managing Director Sauradip Chemical Industries Pvt Ltd, Dr Kishore Shah Chairman, Sauradip Chemical Industries Pvt Ltd, Shri. Sandeep Kokane - Senior Vice President - JSW Paints, Prof. A. B. Pandit-Vice Chancellor, ICT , Shri. Jaideep Shah-Executive Director - Sauradip Chemical Industries Pvt Ltd and Prof. Dr. Shashikant Mhaske- Head, Department of Polymer and Surface Engineering**





**Shri. Jaideep Shah addressing the gathering**

Prof. A. B. Pandit – Vice Chancellor of ICT introduced the Chief guest Shri. Sandeep Kokane-Senior Vice President – JSW Paints, Prof. A. B. Pandit praised Dr. Kishore Shah for Generous donation for renovation of Polymer and Surface Coating Post Graduate and undergraduate Laboratories.

Shri. Sandeep Kokane presented the lecture on Indian Paint Industry – Trends, Challenges and Opportunities



**WELCOMES NEW MEMBERS**

**Bleach Chem**

**Hohenstein India Pvt. Ltd.**

**Lok Chemicals Pvt. Ltd.**

**Photokina Chemicals Pvt. Ltd.**

**Syglak Laboratories Pvt. Ltd**

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

The ISCMA and GIZ conference on “Digital Management of Hazardous Chemical in Textile Manufacturing” was a successful event that brought together leaders from the chemical industry to discuss important issues related to sustainability and responsible chemical management.



**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**

In his welcome note, President of ISCMA, Vinay Patil, emphasized the importance of the 3 R's. (reduce, reuse, and recycle) and 3 P's (Planet, People, and Profit) in the chemical industry. He stressed the need for a more conscious approach to the use of hazardous chemicals in textile manufacturing, with a focus on minimizing their impact on the environment.

Dr. Rossitza Krueger, Project Manager at GIZ India, gave opening remarks that provided a brief overview of the organization and its work, GIZ is a German government agency that operates in over 150 countries, with a total staff of 20,000 people, including 500 in India. The organization has established partnership with various brands and Platforms to manage chemicals and track their impact on the environment for sustainable management.

Additionally, several other industry leaders shared their views on the topic of digital management of hazardous chemicals in textile manufacturing. Mr. Digvijay Tarte from GIZ India gave a presentation on the objectives, activities, and impact of the program. Mr. Umashankar Mahapatra, MD of Pulcra Chemicals in the textile value chain. Mr. Sanjay Harane spoke about sustainable practices in textile processing, while Mr. Ganesh Kasekar from GOTS spoke about the GOTS Chemical input approval process and product stewardship. Lastly, Mr. Purvesh Jain and Mr. Prashant Patil from IndoCount shared their insights on how industry leaders are adopting sustainable cotton and standards in their production processes.

Moreover, Ms. Sophie Hiltner from GoBlu gave a presentation on the use of chemical management tool, The BHive, and its importance in achieving environmental goals throughout the complete supply chain. Mr. Senthil Nathan. V. from TUV Rheinland India also gave a live demonstration of the app, showcasing its features and capabilities.

The presentations and demonstrations provided valuable insights into the use of digital tool The BHive for managing hazardous chemicals in the textile industry. Attendees learned about the importance of tracking and managing chemicals throughout the supply chain to ensure sustainable and responsible practices. The conference demonstrated the power of technology in promoting and achieving environmental goals in the industry.

## ITME Society Awards S. A. Pharmachem Pvt. Ltd., for 'Best Initiatives for Pollution Control Technology'

INDIA ITME Society has initiated the search for talented, stand out leaders, innovators and determined perseverance in their field of work. To mark 4-decade old successful journey of India ITME Society several awards was initiated.

The 2nd edition of awards are Society's humble attempt to recognize the exceptional & significant contributions that have influenced positive change in the textile engineering sector of our nation.

To ensure fair practice and true unbiased nature towards the awards selection, the society has brought on board reputed textile technocrats from different sectors of textile as the Jury.

Mr. S. Hari Shankar, Chairman & Members of Steering Committee of India International Textile Machinery Exhibitions Society along with the Jury members announced the winners of Category 2 - Best Initiatives for Pollution Control Technology to S. A. Pharmachem Pvt. Ltd

Mr. Vinay D Patil , Managing Director, S. A. Pharmachem Pvt. Ltd & his team have worked and offered a full proof system to reduce the pollution from textile waste water. S. A. Pharmachem has offers solutions which helps textile industries for competitiveness and it will be a game changer.

Size recovery system from desize wash liquor-caustic purification system from mercerization wash liquor indigo dye recovery & reuse.

All the systems are built in India using KOCH membrane - USA.

ITME Society has given recognition for these activities and awarded "Best Initiatives for Pollution Control Technology by giving Trophy, Certificate & Rs 1,00,000 Cash.



### S. A. Pharmachem P. Ltd.

Sincere appreciation goes to the elite jury panel who took time out of their busy schedule to help us ensure smooth and unbiased decision making"

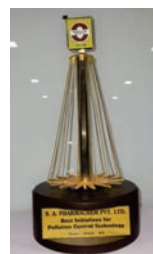
Mr. Vinay D Patil , Managing Director, S. A. Pharmachem Pvt. Ltd & his team working and offering a full proof system to reduce the pollution from textile waste water. S. A. Pharmachem is offering a solution which helps textile industries for competitiveness and it will be a game changer.



- Size Recovery System from desize wash liquor
- Caustic Purification System from mercerization wash liquor
- Indigo Dye Recovery & Reuse

All the systems are built in India using KOCH membrane - USA.

ITME Society has given recognition for these activities and awarded "Best Initiatives for Pollution Control Technology by giving Trophy, Certificate & Rs 1,00,000 Cash.



## Navgrah Temple has been built near 2nd exit, Lonavala

In the temple, Dr. Shah family put up Muni Suvarat swami (Lord of Saturn) after doing proper Pratishthan. Also, they have donated Bhojanshala, a state of Art. It has 6000 sq ft. hall and a 2000 sq ft kitchen area. There are no pillars in the hall. It is an architectural wonder. It has a capacity of 300 people, and was completed in February 2022. In addition to that, they have also sponsored the Upashray (Aradhana Bhavan) of Sadhu Maharaj and Sadhviji Maharaj, an arena where about 3 to 4 thousand Sadhu (Male ascetic) M.S. and Sadhviji (Female Ascetic) M.S. would pass and reside there for a short duration stay.



**Temple**



**Bhojanshala**



**Aradhana Bhavan**

Official Inauguration of Bhojanshala complex and Aradhana Bhavan was done on 26.01.2023.



Aradhana Bhavan Opposite fountain



Bhojanshala Inauguration: From Left Mrs. Patil, Mrs. Chhaya K. Shah, Dr. Kishore Shah, Shri. Yeshwanth Zaveri, Mrs. Zaveri, Shri. Vinay D. Patil

# National Apprenticeship Training Scheme (NATS)



Board of Apprenticeship Training Western Region  
An Autonomous body of

**Ministry of Education**

Department of Higher Education, Government of India

Welcomes all participants

21 March, 2023

*Bridging Careers...Building Careers!!*



## Presentation □ Outline

- ▶ Background
- ▶ Implementation of NATS
- ▶ Introduction to BOAT (WR), Mumbai
- ▶ Salient features of NATS
- ▶ Benefits to the establishment
- ▶ NATS process flow
- ▶ NATS portal Help manuals

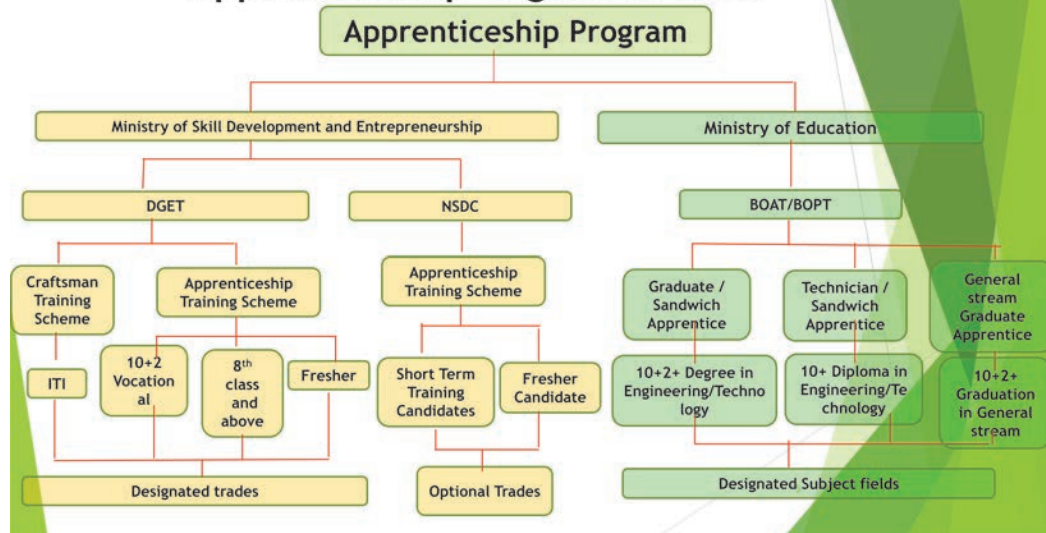
## NATS under MoE

- ▶ Department of Higher Education under the Ministry of Education, through their Regional Boards, implements the National Scheme (NATS) of Apprenticeship Training for providing skill training for Graduates, Diploma holders of Engineering & Technology and Graduates of non-engineering/general stream such as B.A, B.Com, B.Sc under The Apprentices Act, 1961 as amended from time to time.
- ▶ The main aim is to make the engineering and non-engineering graduates, and engineering diploma holders employable by giving on-the-job training.
- ▶ Undergraduate engineering students and those pursuing diploma in sandwich courses of engineering for sandwich apprenticeship.

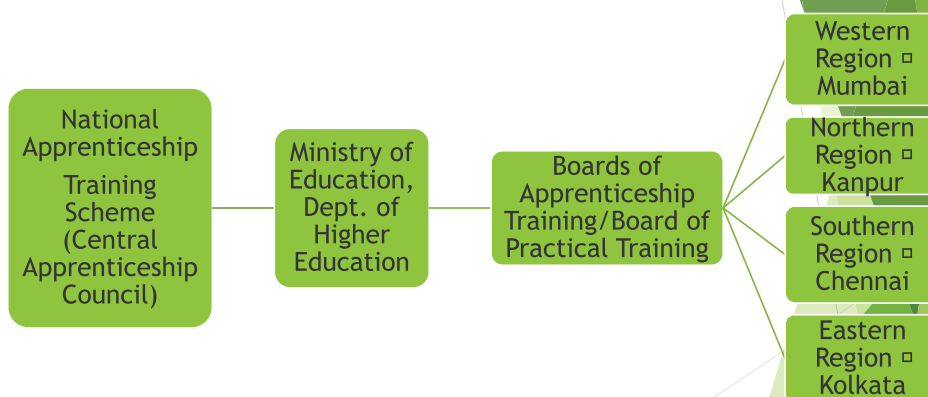
## Non-Engineering Graduates

- ▶ From 17 December 2021 scope of NATS has been extended to accommodate General Streams graduates like B.A., B.Sc., B.Com, etc .
- ▶ Establishments can register the non- engineering graduates as apprentices in the establishment.
- ▶ Reimbursement for the non-engineering graduates shall be as per the engineering graduates as published in the gazette from time to time

## Apprenticeship Regime in India



## Implementation of NATS



## BOAT (WR), Mumbai

- ▶ Set up in 1969 under The Society's Registration Act, 1860.
- ▶ Located at Mumbai
- ▶ Area under Purview
  - ▶ States
    - Chhattisgarh
    - Goa
    - Gujarat
    - Madhya Pradesh
    - Maharashtra
  - ▶ Union Territory
    - Dadra and Nagar Haveli and Daman and Diu

Board of Apprenticeship Training (WR),  
2nd floor, NSTI Campus, VN Purav Marg,  
Sion East, Mumbai, 400022  
Mumbai 0222405-5635/3682 toll free  
1800222060  
[www.mhrdnats.gov.in](http://www.mhrdnats.gov.in)



*Bridging Careers Building Careers !!*

## Salient features of NATS

- ▶ Duration of the training varies from 06 months to 03 Years (for general stream graduates), 1 year for Engg/technology graduates and diploma holders.
- ▶ Stipend reimbursement to establishments is limited to a period of one year.
- ▶ Training may commence on any day of the year.
- ▶ Progress of the training is reviewed by BoATs at frequent intervals virtually / Physically
- ▶ Interventional training programs are also being arranged by BoATs.
- ▶ Cross functional training program is being arranged
- ▶ Digital Certification of Skills, on successful completion of training is done by the concerned BoATs / BoPT
- ▶ Post Apprenticeship Permanent Employment (PAPE) facilitates Apprentices to create industry validated skill, incorporated in CV

## Benefits to the establishments

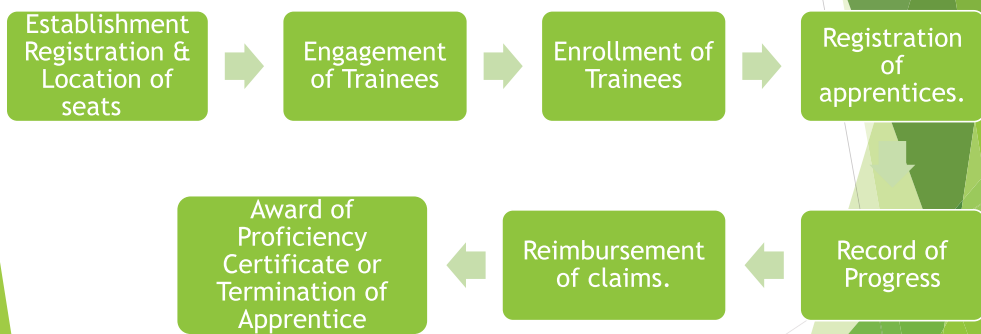
- Skilled manpower is always available to the establishments for regular employment.
- To have an opportunity to judge the competencies, capabilities and qualities of candidates for Employment.
- Making better Selections for regular Employment.
- Supporting hands for running their activities with fewer Labour Laws.
- Productivity enhances due to the availability of ready-to-employ trained manpower.
- To have an opportunity to utilize their mandatory CSR funds.
- Monetary support from Gol by way of Stipend reimbursement.
- PF and ESIC not mandatory during the training.
- No obligation on establishment for continuation after the training.



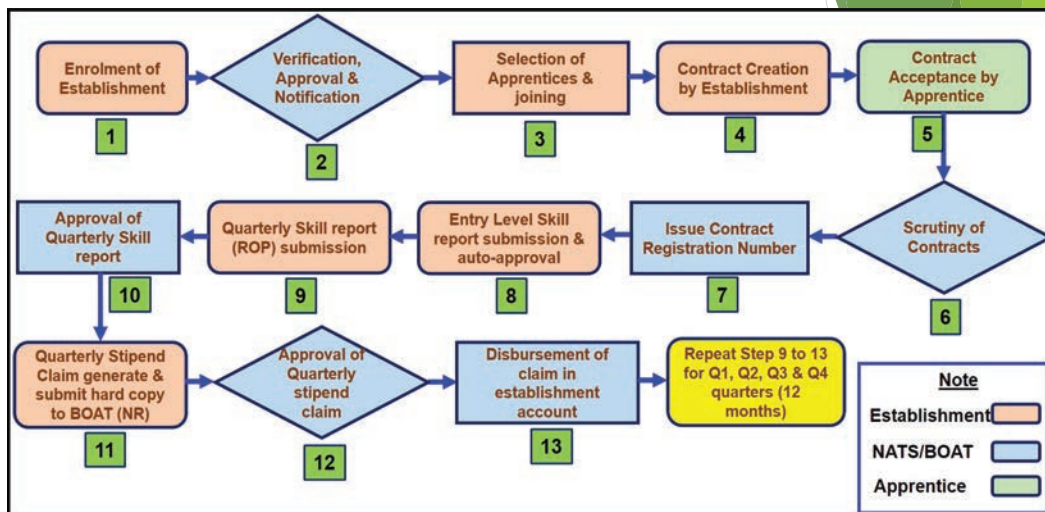
## Why choose BOAT(WR)

- ❑ Follow the ease of doing business principle.
- ❑ Quick query resolution to establishments.
- ❑ Online support from the Board officials.
- ❑ Reimbursement for, up to 20% (of the total employee strength of establishment) of apprentices engaged by the establishment for the financial year 2022-2023.
- ❑ Quick onboarding of establishments (same day assessment)
- ❑ Faster disbursement of stipend claim reimbursement to the establishments (processing the request in one days time)

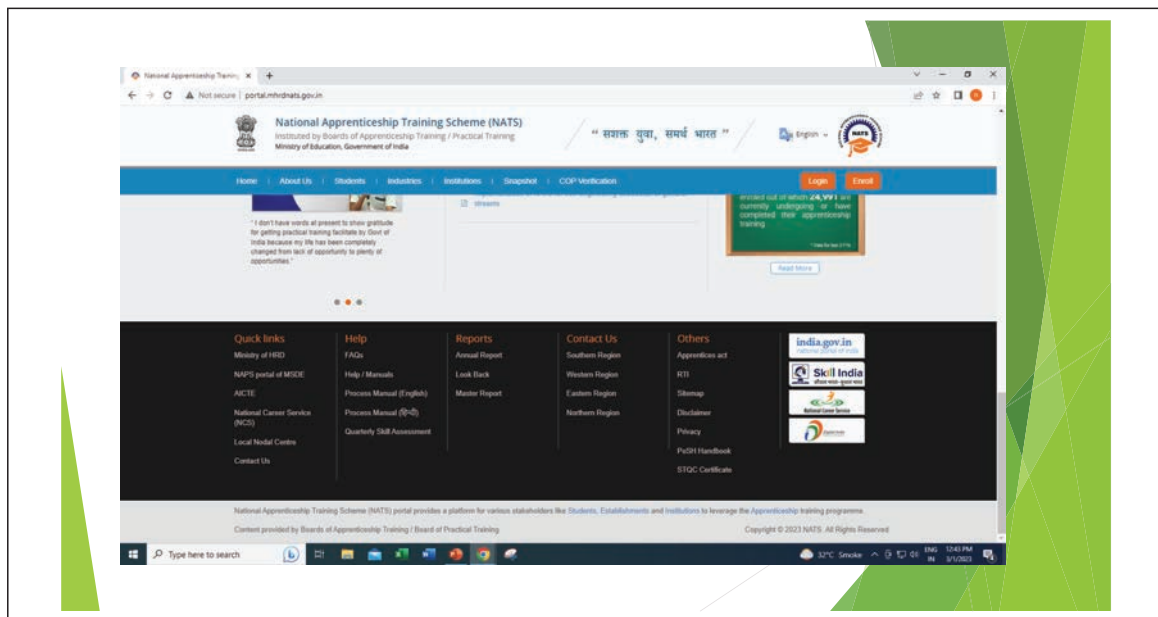
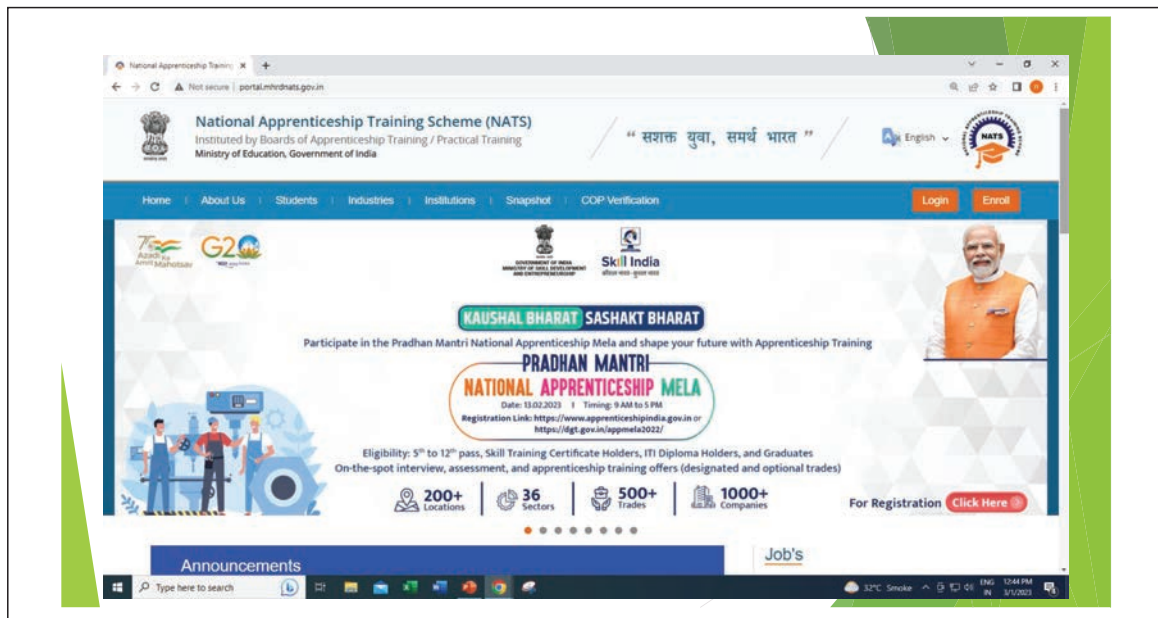
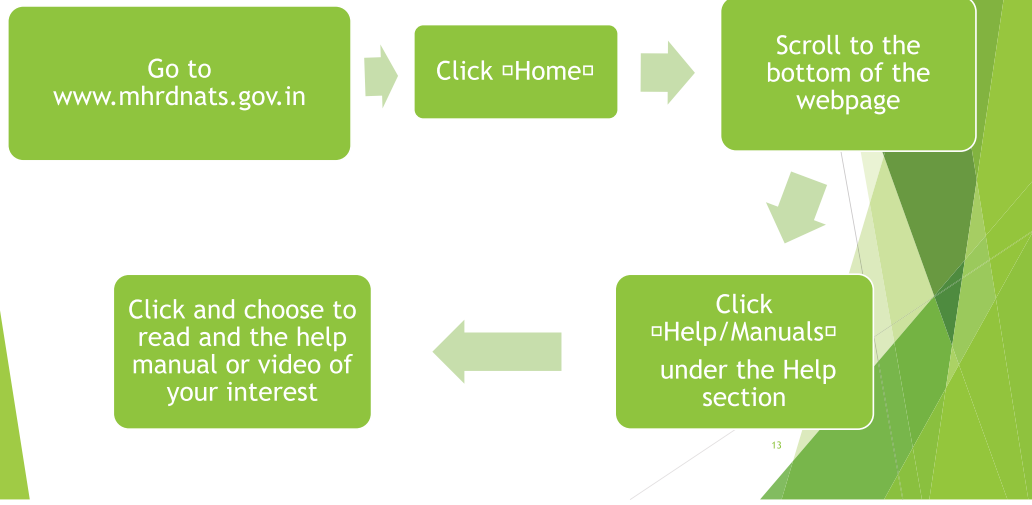
## NATS Process

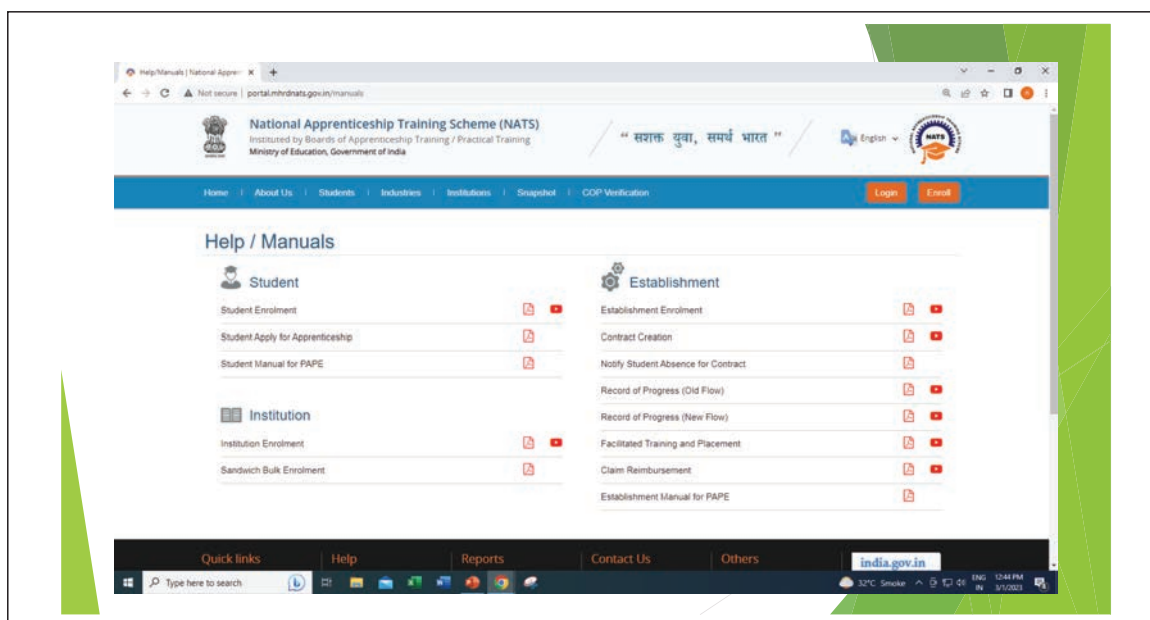


## Process flow for Engaging Apprentices from NATS portal



## Help Manuals and Videos





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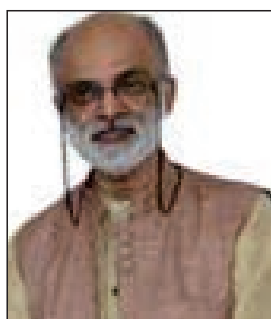
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**Website : [www.rajenkishor.com](http://www.rajenkishor.com)**

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

Merit Cum Means Scholarships and Certificates, sponsored by ISCMA since 2012, are awarded to students in all branches of chemical technology, pharmacy and chemical engineering and a best professor besides non-teaching and support staff class 3 and class 4. The award function held on 09th March 2023 at K. Venkatraman Auditorium was attended by past presidents, members and students.

Mr. Vinay Patil, President, spoke about collaboration of ISCMA with ICT and its activities. Prof M.M. Sharma rechristened Textile Auxiliary Manufacturers' Association founded in 1952 to Indian Specialty Chemical Manufacturers' Association in 1985 and more than 50% members are alumni of ICT.



Prof A.B. Pandit, Vice Chancellor said ICT is number one in ranking and recognized for sectorial excellence. Students will study chemical process economics besides law, sustainability (CO<sub>2</sub>, Water and Material FootPrints), environment, water and risk (process safety and hazard) management related issues. They have introduced courses in artificial intelligence in process industries, machine learning so that with blending, students can go to industry and learn to do anything. ICT is growing and works for societal causes and the government is asking them to develop concurrent industry and technology and solve problems of masses by innovative education.

Introducing Chief Guest Mr. Rajendra Gogri (Chairman & Managing Director-Aarti Industries Ltd.) Mr. Rajendra Gogri has been an integral part of Aarti Industries Limited (AIL) since its inception. He was appointed as the Managing Director of AIL in 1993 and eventually reached the helm in 2012 when he took on the role of Chairman and Managing Director. He holds a Master's degree in Chemical Engineering from Iowa University, USA, and is a rank holder from UDCT Institute, Mumbai. In addition to his technical expertise, he is adept at handling financial and commercial matters as well.



Under the leadership of Mr. Gogri, AIL has always been at the forefront of innovation, with many 'firsts' to its credit. Mr Gogri's strong knowledge in chemistry has provided the strategic direction in making the right product selection, and the strategy of 'Growth with sustainability for a sustainable growth' has elevated Aarti Industries to a global scale.

Mr. Rajendra Gogri congratulated ISCMA for promoting talent as well as congratulated all students, supporting staff, non-teaching staff & professor.

Mr. Rajendra Gogri addressed the audience by sharing his knowledge on the topic "Growth of Indian Chemical Industry" in which they have shared the Global position of Chemical industry, Market Trends & Drivers, Opportunities for chemical professionals.



Best Outstanding Professor: Mr. Parag Gogate, Associate Professor in Chemical Engineering received award for outstanding contribution in 2021-2022.



**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.)**

Proposing Vote of Thanks, Mr. Vinay D Patil thanked Mr. Rajendra Gogri, Prof A.B. Pandit, Past Presidents of ISCMA and the participants for making the function a success.

## ISCMA Merit Cum Means Scholarship Awardees List for the year 2021-2022

**i) Dyes - 1st, 2nd, 3rd and 4th year - One student each, from 1st, 2nd, 3rd and 4th year total - 4 students (Rs. 5,000/- cash + certificate)**

Mr. Tushar Padmaraj Shinde	-	First Year B. Tech. (Dyes)
Mr. Piyush Arun Sarode	-	Second Year B. Tech. (Dyes)
Mr. Vaibhav Sunil Patil	-	Third Year B. Tech. (Dyes)
Ms. Devka Dilip Ingle	-	Final Year B. Tech. (Dyes)

**ii) Oils - 1st, 2nd, 3rd and 4th year - One student each, from 1st, 2nd, 3rd and 4th year total - 4 students (Rs. 5,000/- cash + certificate)**

Mr. Ram Santosh Rathi	-	First Year B. Tech. (Oil)
Ms. Sakshi Kiran Dhutre	-	Second Year B. Tech. (Oil)
Mr. Om Vijayrao Bhilpawar	-	Third Year B. Tech. (Oil)

**iii) Textile - 1st, 2nd, 3rd and 4th year - One student each, from 1st, 2nd, 3rd and 4th year total - 4 students (Rs. 5,000/- cash + certificate)**

Mr. Sarthak Sachin Kathale	-	First Year B. Tech. (Textile)
Ms. Kiran Mahendrarao Gudewar	-	Second Year B. Tech. (Textile)
Mr. Akshay Dilip Shirsat	-	Third Year B. Tech. (Textile)
Mr. Dnyaneshwar Ganpat Shinde	-	Final Year B. Tech. (Textile)

**iv) Surface coatings - 1st, 2nd, 3rd and 4th year - One student each, from 1st, 2nd, 3rd and 4th year total - 4 students (Rs. 5,000/- cash + certificate)**

Mr. Tagad Nilesh Somnath	-	First Year B. Tech. (Surface Coatings)
Mr. Om Santosh Chavan	-	Second Year B. Tech. (Surface Coatings)
Mr. Rajiv Prakash Sonawane	-	Final Year B. Tech. (Surface Coatings)

**v) Polymer - 1st, 2nd, 3rd and 4th year - One student each, from 1st, 2nd, 3rd and 4th year total - 4 students (Rs. 5,000/- cash + certificate)**

Mr. Shubham Shashank Chapekar	-	Second Year B. Tech. (Polymer)
Mr. Parth Girish Vaidya	-	Third Year B. Tech. (Polymer)
Mr. Vikas Vishnu Rathod	-	Final Year B. Tech. (Polymer)

**vi) Food - 1st, 2nd, 3rd and 4th year - One student each, from 1st, 2nd, 3rd and 4th year total - 4 students (Rs. 5,000/- cash + certificate)**

Mr. Virendra Vijay Kane - First Year B. Tech. (Food)

Mr. Prathmesh Pandurang Ritapure - Second Year B. Tech. (Food)

Mr. Chinmay Madan Deshpande - Third Year B. Tech. (Food)

Mr. Aviraj Raju Patole - Final Year B. Tech. (Food)

**vii) Pharma - 1st, 2nd, 3rd and 4th year - One student each, from 1st, 2nd, 3rd and 4th year total - 4 students (Rs. 5,000/- cash + certificate)**

Mr. Pradeep Kishor Badgujar - Second Year B. Tech. (Pharma)

Ms. Shraddha Rajesh Kale - Final Year B. Tech. (Pharma)

**viii) B. Pharm. - 1st, 2nd, 3rd and 4th year - One student each, from 1st, 2nd, 3rd and 4th year total - 4 students (Rs. 5,000/- cash + certificate)**

Mr. Siddhesh Santosh Dongare - First Year B. Pharm.

Ms. Vaishnavi Sanjay Patil - Second Year B. Pharm.

Mr. Tejas Dwarkadas Nikam - Third Year B. Pharm.

Mr. Dharmesh Ravsaheb Deore - Final Year B. Pharm.

**ix) Chem. Engg. - 1st, 2nd, 3rd and 4th year - One student each, from 1st, 2nd, 3rd and 4th year total - 4 students (Rs. 5,000/- cash + certificate)**

r. Nikhil Shankar Warbhe - First Year Chem. Engg.

Mr. Pavan Maroti Gurlewad - Second Year Chem. Engg.

Mr. Aquil Abdulhamid Attar - Third Year Chem. Engg.

Mr. Prajwal Shilkumar Shambharkar - Final Year Chem. Engg.

**ISCMA Award for an outstanding professor of ICT - (Rs. 25,000/- cash + Trophy + certificate) 2021**

Professor P. R. Gogate, Department of Chemical Engineering

**ISCMA Award to Support Staff (Class III) (Permanent) of ICT - (Rs. 11,000/- cash (Shared Rs. 5,500 each) + certificate - 2021**

1. Shri Abhishek B. Rane, Jr. Typist Clerk, Academic Section
2. Shri Sunil Y. Chandivade, Asstt. Accountant, Finance & Account Section

**ISCMA Award to Support Staff (Class IV) (Permanent) of ICT - (Rs. 11,000/- cash (Shared Rs. 5,500 each) + certificate - 2021**

1. Shri Anil P. Yadav, Laboratory Attendant, Academic Section
2. Shri Yogesh V. Tetgure, Laboratory Attendant, Vice Chancellor's Office

## ISCMA Award of Special Category for the Children of Class IV Support staff working with ICT- (Rs. 5,000/- cash + certificate) 2021

### i) Merit Holder of SSC - Shared (Rs. 2500/- each)

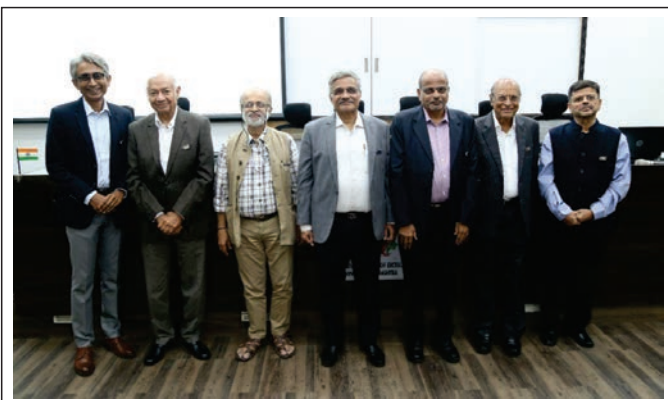
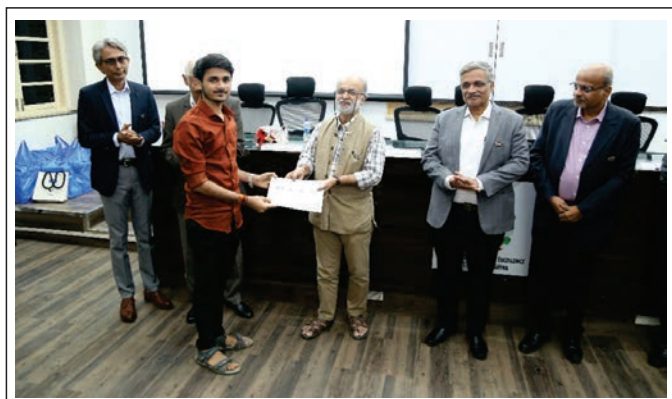
1. Ms. Arpita Jitendra Panwar - 87.80%
2. Ms. Kasturi Prashant Samudra - 84.40%

### ii) Merit Holder of HSC - Shared (Rs. 2500/- each)

1. Ms. Harshali Shivram Sawant - Commerce - 74.67%
2. Ms. Anushka Pravin Kharat - Commerce- 70.17%

### iii) Merit Holder of Degree from different stream like arts, commerce, Science, medical and engineering - Shared (Rs. 5,000/-)

1. Mr. Shubham Ashok Jadiyar - Commerce - CGPI 8.17



**Heartiest Congratulations to all the awardees on behalf of Mr. Vinit Patel, Mr. Deepak Bhimani, Prof. A.B. Pandit, Mr. Rajendra Gogri, Mr. Vinay D Patil, Dr. Kishore M. Shah & ISCMA Members**



# Growth of Indian Chemical Industry



09<sup>th</sup> March 2023

1



## Agenda

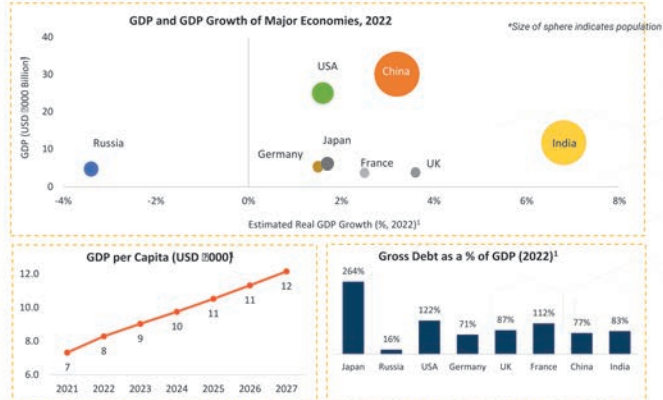
1. Global Position
2. Indian Chemical Industry Overview
3. Market Trends & Drivers
4. Industry/ Government Actions
5. Opportunities for Chemical Professionals



# Global Position

# India: The World's Growth Engine

## India Economic Scenario



- 01 India surpassed UK to become the **5th largest economy** in 2022<sup>2</sup>
- 02 India's GDP per Capita is forecasted to grow by **8.9%** from 2021 to 2027<sup>1</sup>
- 03 India's urban market shall account for **2/3<sup>rd</sup>** of consumption growth by 2025<sup>3,4</sup>
- 02 India's Urban Population will reach **675 million by 2035** (39% growth over 2020)<sup>5</sup>
- 05 External debt to GDP ratio declined to **19.4%** (June 2022) from **19.9%** (March 2022)<sup>6</sup>

Source: 1- International Monetary Fund, 2- World Economic Forum, 3- United Nations Development Programme, 4- World Bank, 5- UN Habitat World Cities Report 2022, 6- Ministry of Finance Press Release  
 Note: GDP and GDP per Capita is on calendar basis (Current Prices based on Purchasing Power Parity)



# India has improved its global competitiveness

## Global Competitiveness Index

### IMD World Competitiveness Index: Top parameter-wise rankings 2022\*

For India, the 2021 rankings are given in the brackets

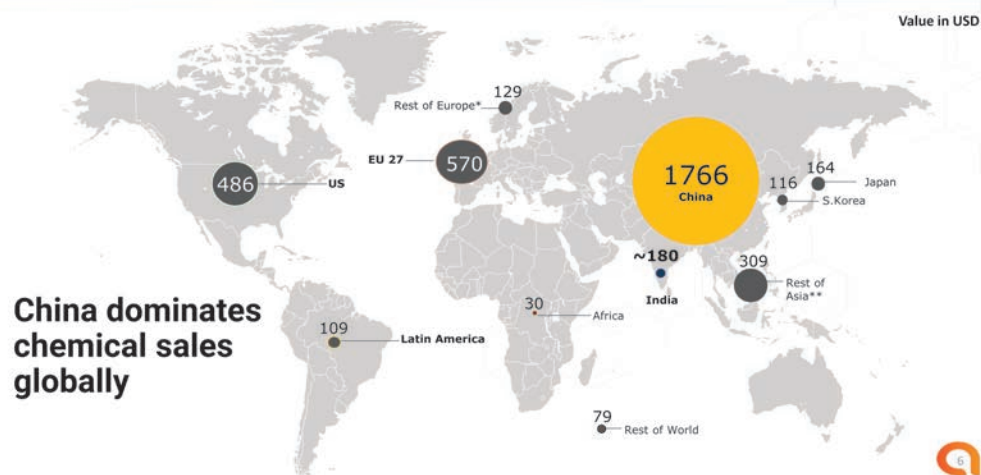
Overall rank	Economic Performance	Government Efficiency	Business Efficiency	Infrastructure
India <b>37</b> (43)	<b>28</b> (37)	<b>45</b> (46)	<b>23</b> (32)	<b>49</b> (49)
South Korea <b>27</b>	<b>22</b>	<b>36</b>	<b>33</b>	<b>16</b>
Japan <b>34</b>	<b>20</b>	<b>39</b>	<b>51</b>	<b>22</b>
China <b>17</b>	<b>4</b>	<b>29</b>	<b>15</b>	<b>21</b>
Malaysia <b>32</b>	<b>12</b>	<b>38</b>	<b>38</b>	<b>37</b>
Brazil <b>59</b>	<b>48</b>	<b>61</b>	<b>52</b>	<b>53</b>
Mexico <b>55</b>	<b>27</b>	<b>60</b>	<b>47</b>	<b>58</b>
Indonesia <b>44</b>	<b>42</b>	<b>35</b>	<b>31</b>	<b>52</b>

\* Lower rank in each parameter represents better positioning of the respective country

Source: World Competitiveness Index 2022 (Institute for Management Development)



# World Chemical Sales (2020, \$3964)



Source: CEFIC - 2022 facts & figures (\*Rest of Europe covers UK, Switzerland, Norway, Turkey, Russia and Ukraine) \*\*Asia excluding China, India, Japan, S. Korea | India's market size has been taken from DPCP



## Competitiveness of India vis-à-vis global chemical hubs



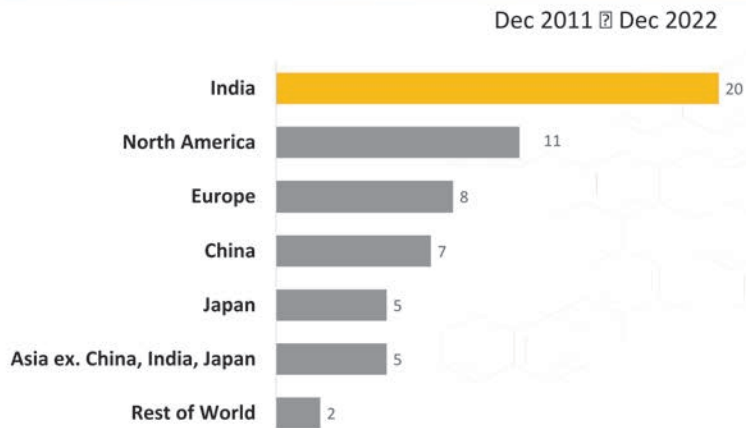
- (1) Based on the local availability of petrochemical feedstocks
- (2) Based on average demand growth rate of major petrochemicals for 2019-2030
- (3) Based on location factor, prefabrication and construction costs
- (4) Based on average monthly salary of employee, electricity costs, etc.
- (5) Commissioning period based on examples of large petrochemical projects

Unattractive  
 Highly attractive

Source: A- Data on minimum monthly wages was collected from various sources including: India (Nagaland - Dept of Labour, Delhi - Govt of NCT of Delhi State Govt), Asean Briefing, Nov 2019 (Indonesia, Central Java, DKI Jakarta), Vietnam Briefing, Nov 2019 (Vietnam, Region IV, Region I), Reuters, Dec 2019 (Mexico, Non-border, Border Zone), MOHRSS, Jun 2018 (China, Liaoning, Shanghai), Bangkok Post, Dec 2019 (Thailand, Yala, Chon Buri and Phuket), Bloomberg, Jan 2020 (Brazil, National), Asean Briefing, Feb 2020 (Malaysia, National), US Dept. of Labor, Wage Indicator Foundation, World Bank, GlobalPetroPrices. B- Data on electricity charges was sourced from GlobalPetroPrices.com as accessed on 11 Nov 2021.



## Total Stock Market Return for Chemical industry, % CAGR



Source: McKinsey & Co



# Indian Chemical Industry Overview

## Indian Chemical Industry Snapshot



Source: India Chem 2021

## Triple growth drivers expected to aid Indian Chemical industry (1/2)

	Domestic Demand Growth	Export Potential	Import Substitution
Textiles	✓	✓	
Automobiles	✓	✓	
Information Technology	✓	✓	
Defence	✓		✓
Construction	✓		
Chemicals	✓	✓	✓

## Triple growth drivers expected to aid Indian Chemical industry (2/2)

**Increasing domestic demand**

- Demographic dividend and disposable income
- Rapid urbanisation
- Low per capita chemical consumption (1/10<sup>th</sup> of global avg.)
- Higher consumption-led growth due to rising nuclearization of families and improved consumption standards
- Shift in consumer preferences leading to new product development

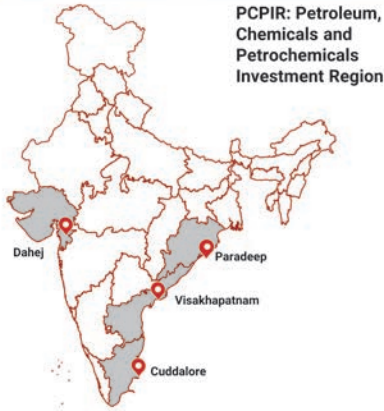
**Room for import substitution**

- Govt. push for Atma Nirbhar Bharat (Self-reliant)
- ~ 30% of demand met by imports
- C&Pc imports worth ~\$50 Bn, of which organic chemicals were ~\$20 Bn in FY21
- Opportunity to produce substantial volume of chemical products

**Expanding Export Opportunities**

- Export strengths and improved capabilities
- China + 1: Global corporations are striving to minimize the risk by reducing their dependency on China
- US - China Trade tensions
- Capitalize on strengths: Specialty chemicals account for more than 50% of India's total chemical exports - agrochemicals, dyes and pigments are the most exported items

## Government Support for Manufacturing Sector



**PCPIR: Petroleum, Chemicals and Petrochemicals Investment Region**

Projected investment of Rs. 7.63 lakh crore (about 108 billion US \$), targeted employment generation of 3.4 million

Source: Government of India's Reports and Websites \*PLI: 13 sectors are included under this scheme

Allocated ~25 Bn. US\$ Production linked Incentives (PLI) to key Chemical end user sectors\*

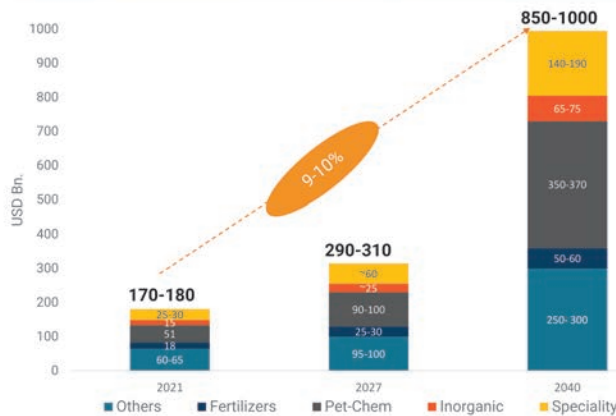


~ 25 Bn. US\$ PLI scheme will indirectly spur the growth of speciality chemicals

- Boost demand of chemicals like Paints and Coatings, Plastic additives, Speciality Polymers, Engineering Chemicals, Pharma Intermediates etc.



## Chemical market to surge 4-5X by 2040



Segment	CAGR (Percent)	
	2021-27	2027-40
Speciality	~11.5%	7-9.5%
Inorganic	~11%	8-9%
Pet-Chem	~11%	10-11%
Fertilizers	~6%	5-6%
Others	8-9%	~8%

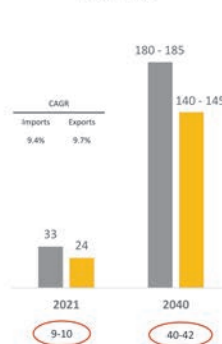
India's overall chemicals market is estimated to be \$850-1000 Bn. by 2040 accounting for ~5% of India 2040 GDP (nominal) and 10-12% of world chemicals market in 2040

Source: MACPC report (Chemical & Petrochemical Statistics at a Glance 2021), Invest India, (India Petrochemicals Scenario 2040) by IIL and IOCL, IHS Market (UN Comtrade, Press search) Note: Includes pharma products (capsules, injectables, OSDs etc.; e.g. Metformin capsules, Polioxyethylene vaccine, Atazanvir tablets etc.) and medical devices (e.g. medical integrated welding, gloves, bandages, dressings, surgical gut string etc.) as per the industry division 21 of NACE. Also includes personal care consumer products (e.g. Shampoo, hair oil, toothpastes, soaps & detergent etc.) as per the industry division 20 of NACE.

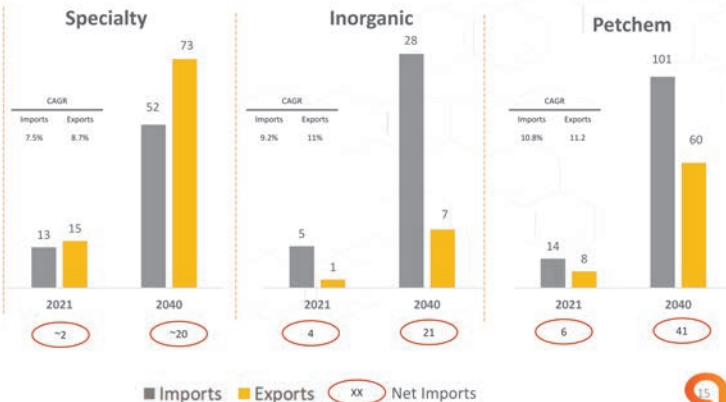


## Specialty Chemicals expected to contribute ~\$20 Bn to net exports

### Indian Chemicals Trade Balance



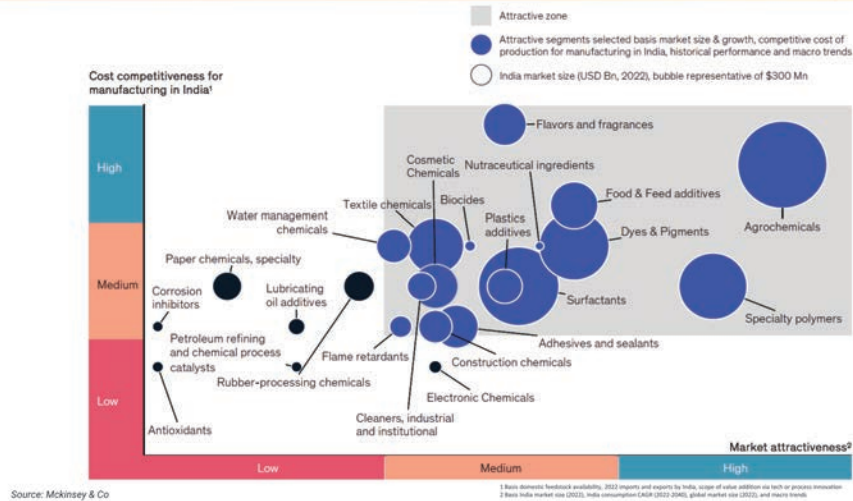
### Indian Chemicals segment wise Exports and Imports



Source: Mckinsey & Co



## Specialty Chemicals segments on cost competitiveness and market attractiveness



## Industry/ Government actions to support growth

### Industry

- Focus on Safety critical
- Feedstock availability from upstream
- Encourage skilled and R&D talent
- Collaborate for synergies between partners
- Improve industry image

### Government

- Environmental
  - Expedite Regulatory Approvals
  - Allow construction while processing EC
  - Allow capacity expansion for ZLD units meeting norms
  - Comprehensive EIA Approval for entire industrial estate
  - Update green-belt norms
  - Preference for deep-sea discharge
- Trade
  - Duty drawback  $\approx$  match Advance License benefits
  - Customize Tariff Policy - A ladder-up approach
- Incentives
  - Reinstate R&D incentive of 200% tax deduction
  - $\approx$ First in India $\approx$  scheme
  - Expedite PLI Scheme for Chemical sector

## Opportunities for Chemical Industry Professionals



### R&D and Innovation

- Most Indian players spend <3% of revenues on R&D (6-10% global standards)
- R&D spend will increase



### Sustainable Solutions

- Process Safety is critical
- ESG-driven investments
- Critical role in achieving net-zero emission status by 2070
- Focus on reducing carbon footprint



### Skill Shortage

- Scarcity of skilled R&D talent
- High demand for professionals in technology development and scale-up



### Emergence of new Technologies

- Focus on Bio-based feedstock by leveraging Biotechnology
- Development of new bio-polymers
- Oil to Chemicals



### Automation & Digitalization

- Automation/ Robotics in production and R&D
- Industry 4.0** : Digital and physical advanced technologies
- Smart supply chains and factories

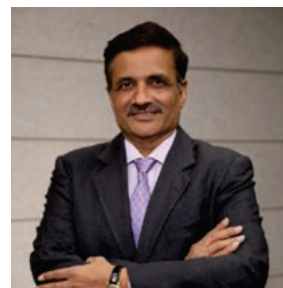


### Industry Academia Collaboration

- Joint R&D
- Design and development of product & processes

## Profile

Name: Mr. Rajendra Gogri  
Organisation: Aarti Industries Limited  
Designation: Chairman and Managing Director



Mr. Rajendra Gogri has been an integral part of Aarti Industries Limited (AIL) since its inception. He was appointed as the Managing Director of AIL in 1993 and eventually reached the helm in 2012 when he took on the role of Chairman and Managing Director. He holds a Master's degree in Chemical Engineering from Iowa University, USA, and is a rank holder from UDCT Institute, Mumbai. In addition to his technical expertise, he is adept at handling financial and commercial matters as well.

Under the leadership of Mr. Gogri, AIL has always been at the forefront of innovation, with many 'firsts' to its credit. Mr Gogri's strong knowledge in chemistry has provided the strategic direction in making the right product selection, and the strategy of 'Growth with sustainability for a sustainable growth' has elevated Aarti Industries to a global scale.

### Awards:

- 1) Distinguished Alumnus Award - from UDCT
- 2) Hurun Most Respected Entrepreneur of the Year - India 2019
- 3) Lala Shriram National Award - Indian Institute of Chemical Engineers

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Tel : 9819046333, 9819481481, 022-21022205

E-mail : maheshwarrangrasayan@gmail.com

## Biography of Dr Kishore M. Shah, Chairman, Sauradip Chemicals : A Review

**Professor G.D. Yadav**

National Science Chair, Government of India

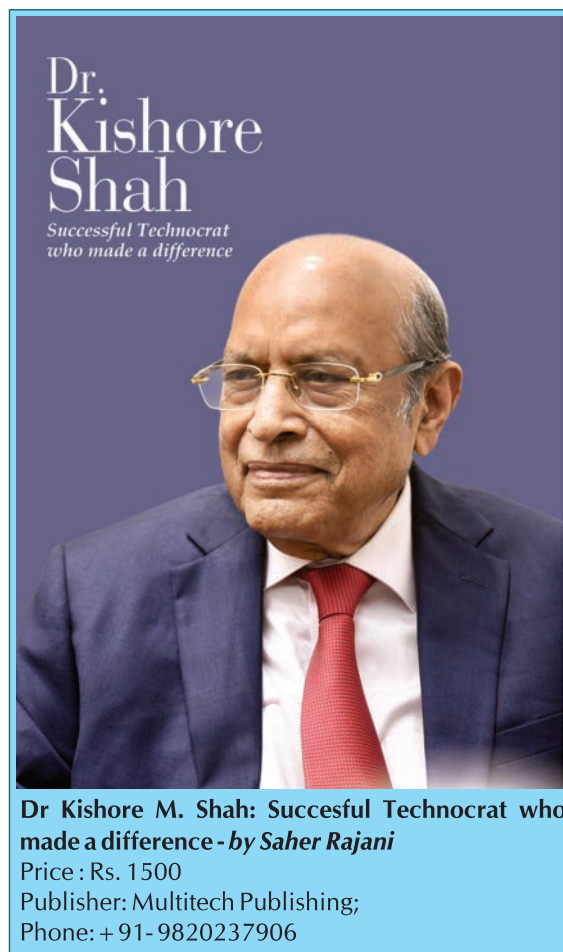
Emeritus Professor of Eminence and Former Vice Chancellor, Institute of Chemical Technology (ICT) Mumbai

Dr. Kishore M. Shah, is a self-made entrepreneur, author, philanthropist, sports enthusiast and a dear friend. I have known him for a long period of time and there is not a single instance when he called me or met me without his famous, gleaming smile. He knows how to make people happy and there aren't enough people like him. His smile never deserts him, even in adversity, and his tranquility is the true secret of his success.

When he met me a couple of years ago to say that he plans to pen down his memoirs, I was more than willing to give my input about my association with him. He has included my comments and many photos with me. What an honor! When his biography was sent to me, I wanted to know the man whom I thought I knew well. I wanted to peep into his past. I love to read biographies and autobiographies to learn how individuals overcome problems and remain positive forces. Not a single such book is without a mention of hardship and ultimate triumph. My curiosity was so immense that I read all 17 chapters in one go and carefully glanced at the photographs, as if I was a silent traveller with him.

His trials and tribulations, rising from the ashes like the phoenix having left with nothing on two separate occasions in his life, are lessons to all those who get dejected, depressed and indulge in self-pity. Not Kishore Shah. He is made of special steel! When his friends advised him to be a research scientist, be content with a laboratory job and not to be an industrialist, he did both disproving them. He converted the lean phase in his life into an opportunity, frequently visited the UDCT library, collected and analysed literature on the chemical and allied industries and became a world-famous author of technical books. He became a celebrity, got numerous invitations to speak and also consult chemical companies. He once jokingly stated that his books were reprinted within 3 years and he became a much sought-after consultant, much earlier than the great Prof. K. Venkatraman, who had to wait a small matter of 17 years for his famous treatises to be reprinted.

Incidentally, the same K. Venkatraman had famously declined to be his PhD supervisor. When his second choice, Dr. B. D. Tilak left for NCL, he turned to Dr. K. K. Shah, then a novice, to serve as his PhD supervisor. They produced excellent research work which was published in international journals of repute. Who says you need to be a student of a famous guide to get recognition? Kishore Shah flipped the script and made his guide famous through his ingenuity and acumen. By no means was his journey to a PhD easy. However, he persevered and overcame all adversities that came his way. After working in Asian Paints for a while, his





entrepreneurial spirit took over and he swiftly ventured into business. The two chapters of his struggle are an excellent lesson to young professionals about the importance of ethics, values and never quitting. Accurately valuing one's intellectual property, securing the rightful royalties owed to you and standing up for your principles, no matter how big, large or powerful the company that is standing in your way are invaluable lessons. Eventually, one such company that attempted to twist his arms had to eventually settle their suit with him outside court and his victory was akin to David overcoming Goliath.

Later in life, at the age of 58, when most of us are contemplating putting our feet up and enjoying retirement, he was forced to start afresh yet again after being cheated in business by those closest to him. Many would simply give up. Not Kishore Shah. He is, after all, made of special steel. He was singularly determined to correct the wrongs done to him and he rose once more. And it shows that failure is temporary and success is autocatalytic. Hard work has never killed anybody but only rewards amply. He had to be away from his family for long hours and his wife stood with him like a rock. The proverbial 'every successful man has a woman behind him' applies to his wife all along. He owes his success to her. This time around, he had his sons by his side and they collectively built Sauradip Chemicals. His sons, Rajive and Jaideep are chips of the old block. They have inherited their father's steely resolve, cheerfulness and humility, and have optimized the formula of success in their own, unique way. Their equally talented and educated wives are an icing on the cake!

Kishore Shah is also one of the most generous individuals that I know and this benefaction of his Alma mater, the erstwhile UDCT - now called the Institute of Chemical Technology (ICT) - has impacted the destinies of countless students. Whenever I approached him for financial help for the cause of ICT, he would give it smilingly. Not even once he rejected my request. Whether renovating the labs in the Polymer and Surface Coating Department, or scholarships or advertisements, he would approve it happily. His sons have also inherited that gene from him. He frequently visited the Polymer and Surface Coating lab during its renovation, knowing fully well the dangers of running into me in the hallway. As usual I would demand more, like a son does from his doting father, and he would merrily oblige. He knows the joy of giving. Whether it is his school in Surendranagar or the Ruia College, ICT, Matunga Gymkhana or ICT or the Jain temples, he knows how to share his wealth and be happy. Talking of religion, his mother wanted him to be religious, a devout Jain, when he had no interest. However, he was eventually directed towards that path by his wife Chhaya. He is a regular donor to religious causes and humanitarian work, the Lion's Club, many schools and colleges.

His affection for sports is also legendary. He was the President of the Matunga Gymkhana for a decade and converted it into a five-star sports club. He would invite celebrities, arrange grand sports, musical events and parties for the promotion of sports. His infatuation for tennis along with his classmate, industrialist Narendra Parekh is noteworthy. He saw to it that his sons Rajive and Jaideep not only did post graduate studies abroad but also played tennis regularly, became entrepreneurs and expanded his business. His daughter too is an accomplished badminton player and entrepreneur. Theirs is a lovely well-knit family.

The stories of his childhood, growing up in Mumbai with his uncle and extended family in a crowded flat and his indomitable nature to accommodate and live happily with brothers and cousins are illustrated with anecdotes and photos. Who says you need a bigger flat to accommodate people? Your heart should be big. Dr. Shah shows how to stay together at times of adversity and joy.

His contributions to industry without mentioning a single chemical or pigment name and being a founding member of the Indian Speciality Chemicals Manufacturers Association (ISCMA) and nurturing it as the President are remarkable. When he headed the ISCMA, he instituted several awards for the students, support staff and professors of ICT. On a pleasant note, I was at the helm of affairs in ICT when he started all these new initiatives and a special award for the most

productive professor and research group was started. I was singularly lucky to be the first recipient. Mr. Nadir Godrej, who has written the poetic preface, and Hon'ble Shri Satej Patil, the Maharashtra State Minister were present at the awards function. The photo in the book speaks it all.

He has been decorated with numerous awards and honours, being felicitated from time to time. You must read the citations to get a glimpse of his achievements. After going through the 22 chapters of his lucidly written biography, I feel honoured to have a friend like Dr. Kishore Shah. He is an ever-smiling philanthropist who knows the joy of giving. He is a source of inspiration. My suggestion is that this book should be put on internet for free. Let it be read by many struggling industrialists, aspiring students and budding philanthropists. Nobody has taken money to heaven! We should learn from Kishore Shah and help others, give more and be happy and contented.

Lastly, let me quote Atharva Veda wishing him 100 years life.

जीवेम शरदः शतम् । बुध्येम शरदः शतम् ।  
रोहेय शरदः शतम् । पूषेम शरदः शतम् ।  
भवेम शरदः शतम् । भूषेम शरदः शतम् ।  
भूयसीः शरदः शतात् । अथर्ववेद 19.67.2.8

## Dr. Kishore Shah's Biography released

Mumbai, Dr. Kishore Shah's Biography "Dr. Kishore Shah – Successful Technocrat who made a difference" has been recently released in December, 2022 at Nehru Centre, Cultural Hall, Worli.

Dr. Kishore Shah is a leading technologist and industrialist from the Alumni of ICT (Institute of Chemical Technology). Shri. Nadir Godrej - Chairman and Managing Director of Godrej Industries Ltd. was a Chief Guest of this function and Shri. Narendra K. Parekh – Co-Chairman of Pidilite Industries Limited and Professor (Dr) Ganapati D. YADAV - National Science Chair (SERB/DST/GOI) & Emeritus Professor of Eminence were the Guests of Honours.

Prof. M. M. Sharma –



Padma Vibhushan and Ex-director of Institute of Chemical Technology and Prof. A.B. Pandit, Vice Chancellor of Institute of Chemical Technology grace the occasion.

Book has received testimonials from Shri. Gopichand Hinduja -Co-Chairman, Hinduja Group of

Companies, Shri. Nadir Godrej, Chairman, Godrej Industries Ltd, Dr. Mahendra Munjpara, Minister of state for women & Child Development and AYUSH government of India and Review received by Prof. Ganapati D. Yadav, Former Vice Chancellor, ICT (Institute of Chemical Technology).

## Annual Get-Together of ISCMA 2022

**Dr. K. S. Murthy**, Pidilite Industries Ltd.

Indian Specialty Chemicals Manufacturers' Association (ISCMA) 67th Annual Get-Together was organised recently at National Sports Club of India (NSCI) Prince Hall. A compendium was released on the occasion by the dignitaries.



Prof G. D. Yadav, National Science Chair (GOI), Emeritus Professor of Eminence and Former Vice-Chancellor of, ICT was the Chief Guest and delivered his address related to Green Chemical Industry & Sustainability, Waste minimisation, Process intensification, Safer and benign manufacturing.

Mr. U. Shekhar, Promoter and Managing Director of Galaxy Surfactants Ltd was the Guest of Honour. His education encompassed B. Chem. Engg in ICT (erstwhile UDCT, 1972-76) followed by PGDM in Indian Institute of Management, Kolkata (1977-79). He along with his friends founded the Galaxy Group on 22nd June 1980 in a garage and built the company into a Rs.851crores enterprise with a PAT of Rs.61 crores over the last 25 years in Personal & Home Care Industry across the globe for manufacture of Performance Surfactants. Galaxy operations focus on being a 'Business Partner' to its end customers.



Mr. Shekhar was delighted to be at the annual get-together. As the Association used to be called Chemical & Auxiliary Manufacturers Association rightly transformed its name to ISCMA as Prof M. M. Sharma suggested renaming it some time ago. It is not just manufacturing auxiliaries but providing supplementary and additional support for basis of performance and functionality for unique and wide range of applications customised for specific purposes and specific customers. They provide wide variety of effects to

a wide variety of industries. Formulations provided for faster products and services starting from understanding the customers' needs and wants for specific benefits of functionalities envisaged.



Application development as far as products testing are done in the categories like personal homecare, adhesives, construction chemicals and fragrances. By and large industry needs are driven by consumers requiring high level of innovation. Further the industry requires ability for innovation, to adapt and respond to multifarious imperatives that emerge or otherwise necessitated by the changing world.



The world is concerned of consumer safety, social and environmental hygiene, cleanliness, and sustainability. The prevalent and alternative dialogues in the industry are zero emissions, zero environmental footprint, circular economy, 100% biodegradability, water conservation and stewardship, green chemistry and so on. The future embeds safety and sustainability, principles of responsible

care in design, innovation, manufacturing, formulations, and distribution. Ensure functionality and performance with minimal effect on environment wherein use natural resources with confirmative action.

The specialty chemicals industry from 2015 has achieved stellar performance as reflected in IPOs. It created huge wealth in other industries like Alkylamines, Aarti industries, Fine Organic industries, Vinati Organics etc for investors. Exports have shown 11% CAGR over the years. 2009-2019 onwards industry set market for performance and production. Success factors for achieving continuous growth are innovation, speed, efficiency, regulatory speed of efficiency, reducing waste, improving productivity, global competitiveness, ease of doing business and getting permissions quickly. Consciousness of safety and awareness of average Indian is minimal besides curriculum. Safety of people, community, environment, and governess ensure the business of sustainability. Consciousness of average Indian to commitment to environment and safety is dismal and safety operating procedures is minimal. Safety management is essential and governess to ensure are commitment. Conveyance of discipline should be consistent and continuous.



Prof. M.M.Sharma was present besides Lee Brayman, Acting Principal Commercial Officer, President and Dr. Rossitza Krueger-GIZ, GmbH. Vinay Patil welcomed the gathering followed by felicitations to Past Presidents, 42 Sponsors (Platinum, Silver, Bronze) and Awards for Women Entrepreneur, Export, Young Entrepreneurs and Membership drive. The meeting ended with cocktail followed by dinner and entertainment.

### Few Glimpse of Annual Get-Together of ISCMA -2022







**Dr. Kishore Shah was awarded distinguish Alumni Matunga Gymkhana Award at Annual Day Function on 24th February, 2023.**



**Dr. Kishore Shah taking award with Indian Actor Kiran Kumar with Executive council members of Matunga Gymkhana.**



**Dr. Kishore shah addressing the gathering**

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





**GIZ & Grey Sim Learnings Foundation  
organized Awareness Program on Apprentice Training for  
Indian Speciality Chemical Manufacturer's Association  
on 21st March 2023.**





## ISCMA Signed MoU with USIIC for Bilateral Trade Speciality Chemicals





## COMPANY PROFILE



DCL, Inc. (Dust Control and Loading Systems) with corporate offices and manufacturing facilities located on the shores of Lake Michigan in Charlevoix, Michigan, U.S.A. DCL provides full dust control loading systems as well as partial components to the bulk material handling industry.

DCL Bulk technologies Pvt Ltd., is now 100% U.S.A Owned subsidiary with its manufacturing facility at Hyderabad, India. DCL India Commits itself the quality of product, efficient after sales service that have been the policy of the parent company

Seasoned veterans in Engineering and Manufacturing give the capabilities of designing custom systems or equipment to help meet particular needs. Involvement with companies, who deal in dry bulk materials from abrasive glass to toxic powder, chances are good that DCL is familiar with your needs. Proven teams of Electrical Design Specialist are utilized in combining the right electrical functions for any industrial application. The use of PLC or computerized controls help to complete any DCL state of the art system.

DCL, provides a full product line that includes: Dust Free Loading Spouts, Spout Positioners, Horizontal and Vertical Slide Gates, Diverters, Triverters, Flow Control Valves, Air Gravity Conveyors, Silo Aeration, Dust Collectors, Bag and Drum Filling equipment, and Control packages. Individually or in full systems these components are available for modification, allowing for tailor made designs that can be created to fit with existing equipment or unique specifications. As specialists in load-out systems DCL is prepared to offer full turnkey solutions for Ship, Barge, Truck or Railcar loading.

DCL Designs systems to meet the need of any customer. Our engineers consider every aspect of your loading operation provide the best and most economical approach to your material handling needs

DCL also manufactures and supplied systems control panels, fans, and motors, replacements spout and sleeves for other manufacture equipment's, and a variety of the other custom options

## CONTACT INFORMATION

Asian operators

DCL Bulk Technologies Pvt Ltd  
(A 100% Indian Subsidiary of DCL Inc., USA)  
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Website: [www.dclbulktech.com](http://www.dclbulktech.com)

Corporate office address:

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08660 Ance Road, Charlevoix  
MI 49720, USA

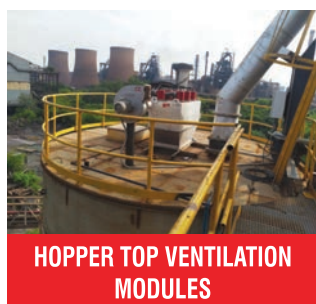
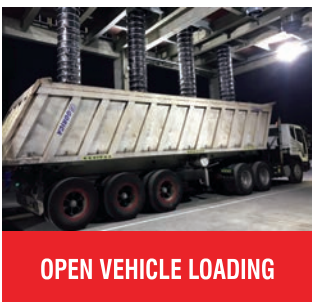
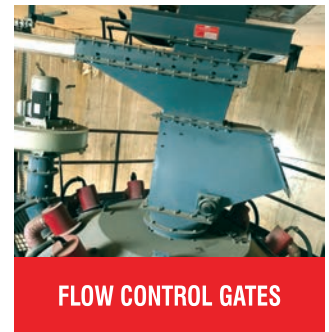
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## Acetone Derivatives

- Diacetone Alcohol; Hexylene Glycol; Mesityl Oxide

## Amine Neutralizer (pH Buffering)

- UCAR MF 90 Amine Neutralizer (equivalent to AMP)

## Adipates

- Dimethyl Adipate; Diisopropyl Adipate

## Amines

### Ethanolamines:

- Monoethanolamine (MEA); Diethanolamine (DEA); Triethanolamine 99% (TEA 99%)

### Ethyleneamines:

- Ethylenediamine (EDA); Diethylenetriamine (DETA); Triethylenetetramine (TETA); Tetraethylenepentamine (TEPA)

### Isopropanolamines:

- Monoisopropanolamine 99% (MIPA 99%); Diisopropanolamine 99% (DIPA 99%); Triisopropanolamine 99% (TIPA 99%)

## C<sub>4</sub> Chemicals

- 1,4 Butanediol; N-Methyl-2-Pyrrolidone; MPDiol Glycol; Tertiary Butyl Acetate

## Coalescing Aid

- Coasol Series

## Esters

- n-Pentyl Propionate; n-Butyl Propionate; n-Propyl Acetate

## Glycol Ethers & Acetates

- E-Series Solvents / Ethylene Glycol Ethers & Acetates: Butyl Cellosolve; Butyl Cellosolve Acetate; Butyl Carbitol; Butyl Carbitol Acetate; Propyl Cellosolve; Butoxy Polyglycol
- P-Series Solvents / Propylene Glycol Ethers & Acetates: PE; PM; PMA; DPM; DPDM / DMM; DPMA; TPM; PnB, DPnB; PnP

## Polyethylene Glycols (PEG's)

- Average Mol Wt: 200, 300, 400, 600, 1500, 3350, 4000, 6000, 10000

## Propylene Glycols (PG's)

- Propylene Glycol (Industrial, USP/EP); Dipropylene Glycol (Industrial, Fragrance); Tripropylene Glycol

## Rosin & Esters (Pine Based)

- Tall Oil Fatty Acid (TOFA)
- Dipentene
- Delta-3-Carene
- Tall Oil Rosin & Esters
- Dimer Rosin Acid; Gum Rosin & Esters
- Hydrogenated Rosin & Esters
- Polymerized Rosin & Esters; Maleic Rosin & Esters;
- Disproportionated Rosin Esters & Salt Soaps

## Surfactants

- Dowfax series; Tergitol series; Triton series
- Nonyl / Octyl / Styrenated / Card Phenol; Ethoxylates
- Lauryl Alcohol Ethoxylates; Cetostearyl Alcohol Ethoxylates
- Tridecyl Alcohol Ethoxylates; Castor Oil / Hydrogenated Castor Oil Ethoxylates
- Coconut / Lauric Acid / Stearic Acid / Oleic Acid Ethoxylates
- Cocoamine / Tallow amine / Oleic Amine Ethoxylates
- EO-PO Copolymers
- Specialty Ethoxylates

## Saturated Block Polyethers

- Ethyl Diglyme (Diethylene Glycol Diethyl Ether); Tetraglyme (Tetraethylene Glycol Dimethyl ether)

## Specialties

- 1-2 Diaminocyclohexane; 2-Ethylhexyl Acetate; Di-n-Butyl Ether; Dimethyl Succinate; Isoamyl Alcohol; Isoamyl Acetate



## Saiper Chemicals Pvt Ltd

Plot 43, Sector 24, Behind Gupta Weigh Bridge, Turbhe, Navi Mumbai - 400705, Maharashtra, India

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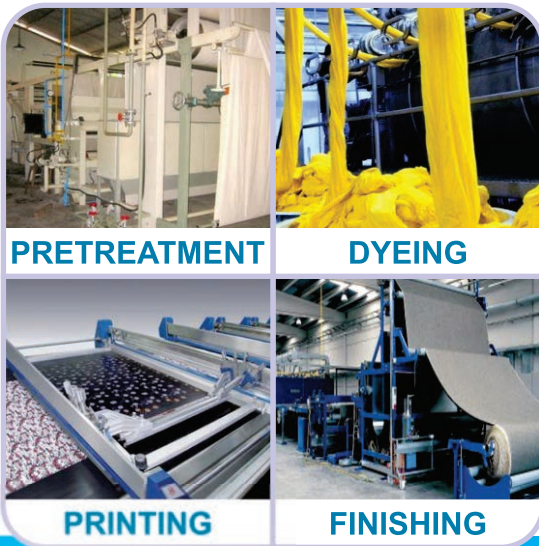
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