



**82nd ANNUAL
REPORT
2022-2023**

Full Member of



International
Council of
Chemical
Associations

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MESSAGE FROM ICC LEADERSHIP



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VICE PRESIDENT
MR. RAJEN MARIWALA
Managing Director
ETERNIS FINE CHEMICALS LTD.



ADDITIONAL VICE PRESIDENT
MR. KARTIK BHARAT RAM
Joint Managing Director
SRF LTD.

Dear Esteemed Members of ICC !

It is with immense pride that we address you in our Annual General Meeting (AGM). This gathering represents a momentous occasion for us to reflect upon the remarkable accomplishments of our Council over the past year.

As Indian Chemical Council moves into the 85th year in 2023, its role has significantly grown, focussing on Indian Chemical Industry and our collective journey in pursuit of excellence has yielded very good results, and it is only fitting that we come together to recollect the dedication, commitment, and hard work that have brought us this far.

It's our pleasure to share some of the key achievements that have defined our council's success.

As the **Full member of International Council of Chemical Associations (ICCA)** we are now represented in the Board and the Associations Round Table (Steering Committee) of ICCA. Our members along with the ICC secretariat are actively engaged in the various Leadership Groups, cross-cutting groups and task forces adding value and to be in sync with global leaders on the latest global developments concerning the chemical industry.

We have witnessed a significant growth in membership, adding 46 members, a testament to the trust and value we offer to the Chemical Industry. This growth strengthens our collective voice and impact.

Our programs and initiatives have multiplied in numbers and have grown further in stature, providing our members with valuable resources, networking opportunities, and skill development.

The 16th **Annual India Chemical Industry Outlook Conference & Exhibition**, the signature event of ICC held in March 2023 with McKinsey & Co. as the Knowledge Partner and supported by Government of India, has evolved as the biggest and most sought-after event of the Chemical Industry in India. This conference witnessed the presence of Mr. Arun Baroka, the then Secretary – Department of Chemicals and Petrochemicals, Government of India; Dr. Srikar Reddy, Joint Secretary, Ministry of Commerce & Industry, Government of India; Mr. Nikhil R. Meswani, Executive Director, Reliance Industries Ltd.; Mr. Erik Fyrwald, Global CEO, Syngenta; Mr. Chris Musso, Sr. Partner, Denver - Rocky Mountains, McKinsey & Company, USA and Mr. Susanta Kumar Purohit, Joint Secretary, Department of Chemicals & Petrochemicals, Government of India as the Key Speakers and Mr. Nadir Godrej, CMD of Godrej Industries Ltd and Mr. R Mukundan, MD & CEO of Tata Chemicals for the Exclusive Chat. The whitepaper titled '**India: The Next Chemicals Manufacturing Hub**' prepared by McKinsey & Company which was launched during this event has created immense interest globally, in India as an investment destination for the Chemical Industry.

The Council's 4th Edition of the **Sustainability Conclave** with ERM as the Knowledge Partner and supported by UNEP and ICCA, was successfully organised in November 2022 at New Delhi with massive engagement of the industry. More than 250 attendees attended the conclave, where more than 50 experts presented their views on various topics. Members will be pleased to know that this event has now been adopted as an official Event of Government of India.

The 57th **Annual ICC Awards Presentation function** held in September 2022, and the 13th **Seminar on Recognising Excellence of Performance in various facets of Chemical Industry** attracted the highest number of nominations and delegates and it was an outstanding success. In this regard, it will be our pleasure to place on record, our sincere

MESSAGE FROM ICC LEADERSHIP

appreciation and gratitude to **Deepak Nitrite Ltd, Alkyl Amines Ltd., Vinati Organics Ltd. Evonik, J B Joshi Research Foundation, Excel Industries and Epsilon Carbon** for their generous support in Co-Branding the ICC awards. Mr. Arun Baroka, the then Secretary, Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Government of India was the Chief Guest and Dr. (Ms.) Ilham Kadri, CEO, Solvay S.A. was the Chief Guest representing Global Chemical Industry for the Awards Presentation Function and Mr. Susanta Kumar Purohit, Jt. Secretary - Chemicals, Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Government of India was the Chief Guest at the seminar.

The second edition of **NG Log Next 2023** conducted in July 2023 was attended by international experts, business leaders, and government officials. The event has gained importance in stature in the field of Chemical Logistics.

The 11th Edition of **India International Phosgene Safety Conference** by ICC's Gujarat Chapter, **Refresher Courses on Chemical Engineering for Plant Personnel** at Mumbai, four **Basic Courses on Chemical Laboratory Safety Practices** and 10 **webinars on important subjects by eminent speakers** were some of the other important events which were organised for the benefit of our members. Large number of delegates attended these programs.

We are happy to note that ICC-Southern Region took the initiative to launch a new flagship event for ICC, the **"Industry Institution Partnership Summit"** at Chennai. The event was organized in association with Indian Institute of Technology, Madras and M/s Avalon Consulting. The theme of the summit was to envision a roadmap for strengthening Industry-Academia linkages for transforming the chemical industries. The event was attended by large number of delegates and was well covered in the media.

Indian Chemical Council, with the support of National Authority for Chemical Weapons Convention (NACWC), Cabinet Secretariat, Govt. of India, had also organised **'Fourteen Awareness Programmes on Chemical Weapons Convention (CWC)'** as per our Memorandum of Understanding (MoU) with NACWC.

We are glad to inform you that Indian Chemical Council (ICC) in association with Institute of Chemical Technology (ICT), Mumbai under the guidance of Secretary, Department of Chemicals & Petrochemicals (DCPC) has developed **two courses i.e., on 'Safety and Environment for the benefit of the Chemical Industry'** especially MSMEs. The certification course is now being offered in both online and physical modes. Five physical programs have been planned at Gujarat, Maharashtra, Tamil Nadu, Kolkata and in Northern Region.

It is our pleasure to inform the members that the R&D sub-committee of ICC has curated a **new Certification Course on 'Essentials of Chemical Process Transfer from Laboratory to Pilot Plant'** held virtually which was attended by more than 120 participants.

ICC has successfully advocated for policies and reforms that benefit our industry. Granting RoDTEP rates for the chemical industry and our relentless efforts to introduce PLI, reforms in FTAs... to name a few. ICC has also represented various issues of its members to the Government in terms of FTAs, Policies, Regulatory and Environmental matters.

We have constituted two new Expert Committees namely **Product Stewardship Advocacy Committee** and **Industry Academia Expert Committee** during the year for the betterment of Indian Chemical Industry and are happy to announce that ICC has signed **MoUs with leading Academic Institutions** such as Institute of Chemical Technology, Mumbai, Foundation of Innovation and Technology Transfer, IIT Delhi (FITT) and Manipal University, Jaipur for furthering the industry academia collaboration. One of the important milestones was that ICC has signed a MoU with GeM Portal (Government e-Marketplace), National Public Procurement portal for procurement of goods and services by the government departments.

As you are aware, ICC is the nodal agency for Responsible care in India. We work very closely with ICCA in implementing key projects beneficial for the industry.

Given that warehouses in India are often multi-user facilities storing a wide variety of chemicals with different hazard classifications, it is imperative to address this area with focused attention. To that end, ICC has developed benchmarks for Responsible Care and the **RC-Warehousing Manual** being developed will mitigate risks to human health and the environment within chemical warehouse facilities.

Another key initiative launched during the year is on the development of **RC KPI Webtool**. RC-KPI Webtool developed with the support of ICCA was launched in June. This innovative webtool will revolutionize how we collect, measure, and report Environment, Health, Safety, and Security data.

MESSAGE FROM ICC LEADERSHIP

It is also our pleasure to inform that ICC ERO has organised the **21st Acharya Prafulla Chandra Ray Lecture in Kolkata**, to pay homage to **Acharya Prafulla Chandra Ray**, its Founder-President. The first lecture was delivered by **Prof. Man Mohan Sharma, Emeritus Professor of Eminence**, Institute of Chemical Technology, Mumbai, Padma Bhushan (1987) and Padma Vibhushan (2001) Awardee on 'MILESTONES IN CHEMICAL INDUSTRY' and the second one was addressed by **Prof. Souvik Bhattacharyya**, Senior Vice President, TCG Centres for Research and Education in Science and Technology (CREST), Kolkata on 'Corporate Engagement In Higher Education: Industry Immersion For Students | Education For Working Professionals'.

As we gather for the AGM, let us also look forward to the opportunities that lie ahead. Your input, feedback, and aspirations are invaluable to shaping the future of our Council. I encourage each one of you to actively participate in the discussions, share your insights, and contribute your ideas.

Once again, thank you for your unwavering support and commitment to our council. Together, we have achieved remarkable milestones, and we have every confidence that our future holds even greater promise.

Warm regards,



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Managing Director
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Mr. Vikram Singhal, President, GULBRANDSEN TECHNOLOGIES, INC.

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REPORT OF THE EXECUTIVE COMMITTEE

FLAGSHIP EVENTS OF ICC SEPTEMBER 2022 – AUGUST 2023

THE THIRTEENTH ANNUAL SEMINAR ON RECOGNIZING EXCELLENCE OF PERFORMANCE IN VARIOUS FACETS OF CHEMICAL INDUSTRY

As a prelude to the ICC Awards Presentation Function, a Seminar is being organised every year on the same day of the Awards Presentation function. The award winning companies showcase their exceptional performances in respective fields for which they have been considered as the ICC Award Winners. In this regard, the Thirteenth Annual Seminar on Recognizing Excellence of Performance in Various Facets of Chemical Industry in this series was organised on 30 September 2022 at Taj Mahal Palace & Tower, Mumbai.



MR. BIMAL GOCULDAS, VICE PRESIDENT, INDIAN CHEMICAL COUNCIL AND MANAGING DIRECTOR & CEO GAVE THE INAUGURAL ADDRESS.

The Seminar started with a warm welcome by Mr. Bimal Goculdas, Vice President, Indian Chemical Council and Managing Director & CEO, DMCC Specialty Chemicals. He highlighted about last year's awards wherein the companies can associate their names with the awards to increase their brand visibility.

Prof. A.B Pandit, Vice Chancellor, Institute of Chemical Technology, (ICT) & Member of Awards Selection Committee, ICC then addressed the delegates as the Key Note Speaker Prof. Pandit said, "We are here to celebrate

the excellence. Excellence is not a goal, it's a continued process. A Journey is a series of events. When we are practising Chemical Engineers, we also need to look at our practice, our methodology and how they are beneficial in general to the industry, to the society and to your personal growth. It is important to see when we are involved in these processes, individual involved in manufacturer of chemicals. Individual responsibility is where new age engineers in addition to the knowledge of chemical engineering is also known as environmentally informed engineers or climate concerned/informed engineers. Many of these efforts which are excellent and generic in nature, which can be implemented further."



PROF ANIRUDDHA PANDIT, VICE CHANCELLOR, INSTITUTE OF CHEMICAL TECHNOLOGY (ICT), MUMBAI & MEMBER OF AWARDS SELECTION COMMITTEE, ICC DELIVERING THE KEY NOTE ADDRESS.

Explaining about the objective of these centre Prof. Pandit said, "It should act as repository of the data. If the repository data is available, including technical or academic or expert, then it can be made available to all the stakeholders. Guiding the time-based policy decisions to be done by the government. To prepare a white paper to promote the Indian Chemical Engineer and Chemical industry and global platform and make it a hub is the mandate given by our Honor'ble Prime Minister."

Mr. Susanta Kumar Purohit, Jt. Secretary - Chemicals, Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Government of India said, "More

than 96% of all manufacturing goods are directly impacted by the business of chemistry. There are more than 80,000 chemical products in our daily life and the industry directly employs more than 2 million people in India. Basically, India ranks 6th in the world and 3rd in Asia in terms of Chemical sales and contributes to more than 13% of Indian exports. Therefore, Government of India considers chemical industry as a very important sector in the growth of India's economy."



MR. SUSANTA KUMAR PUROHIT, JT. SECRETARY - CHEMICALS, DEPARTMENT OF CHEMICALS & PETROCHEMICALS, MINISTRY OF CHEMICALS & FERTILIZERS, GOVERNMENT OF INDIA ADDRESSING THE DELEGATES.

Mr. Purohit further added that, "The Indian Chemical and Petrochemical Industry is expected to reach \$300 bn by 2025. There are several favourable factors which will make this happen, like low current per capita consumption, increased export demand and very strong Government initiatives. India's Chemical industry has been outstripping GDP growth by 1.3x to 1.5 x in the past decade and the expectation is for it to continue doing so."

The other attraction from the morning event was release of a book titled 'The Chemical Industry Spectra' written by Mr. O.P Goyal, Expert Committee. It is a compilation of 32 articles by Mr. Goyal which were published in ICC's monthly Journal 'CHEMICAL NEWS' during the span of 10 years.

Meanwhile, Responsible Care LOGOS were presented to:

1. Anshul Specialty Molecules Pvt Ltd
2. Aquapharm Chemicals Pvt Ltd
3. Best Value Chem Pvt Ltd
4. Dow Chemical International Pvt Ltd
5. Heubach Colour Pvt Ltd
6. Meghmani Finechem Ltd
7. Viswaat Chemicals Ltd.

It was presented to these companies from the hands of the Chief Guest.

The Inaugural Session ended with a customary Vote of Thanks by Mr. Sothi Selvam, Director General, ICC.

TECHNICAL SESSIONS

The Chairperson for the first session was Dr Achala Danait, Managing Director, Clariant India Ltd & Chairperson - R & D Sub Committee, ICC & Member - Awards Scrutinizing Committee, ICC.



DR ACHALA DANAIT, MANAGING DIRECTOR, CLARIANT INDIA LTD & CHAIRPERSON - R & D SUB COMMITTEE, ICC & MEMBER - AWARDS SCRUTINIZING COMMITTEE, ICC (CENTER), FROM LEFT, DR CHINMOY NANDI, VICE PRESIDENT - R & D, NOCIL LIMITED, MR. MAYUR KUMAR THUMAR, PROCESS ENGINEERING LEAD, HUNTSMAN INTERNATIONAL, MR. ASHWIN BHENDE, VICE PRESIDENT - TECHNOLOGY & PROJECTS, NOCIL LIMITED, DR. ASHWIN PATWARDHAN, PROFESSOR OF CHEMICAL ENGINEERING DEPARTMENT; MR. GAJANAN POKALE, DGM (LOTE UNIT), RALLIS INDIA LIMITED, DR PAUL VINCENT MENACHERY, MANAGING DIRECTOR, CATASYNTH SPECIALITY CHEMICALS PVT LTD.

ICC - K.V. MARIWALA AWARD FOR EFFECTIVE CHEMICAL INDUSTRY - ACADEMIA PARTNERSHIP

NOCIL LIMITED was honored with the prestigious 'ICC - K.V. Mariwala Award for Effective Chemical industry - Academia Partnership' in collaboration with Institute of Chemical Technology (ICT), Mumbai

Dr Chinmoy Nandi, Vice President - R & D, Nocil Limited said, "The team of scientists, chemists, chemical engineers, and identical chemists walk into a team from concept to commercialisation. Our management is very much supporting these efforts. Our team is focused on green chemistry and green environment and these made a success in many areas, our focus is to improve and have environmentally friendly processes. We have been working with ICT professors for process development and product development. We have been working with Dr Ashwin Patwardhan since many years. We have developed new process efficiency and economics and reduction in environment emissions have been done and we are focusing on cost efficiency and applying green chemistry. These are some of the achievements in the past."

Ashwin Bhende, Vice President - Technology & Projects, NOCIL Limited

said, "We had more academia partnership with ICT and we belong to a generation where we had amazing teachers.

We got huge support and leadership of Mr. Deo. We have failed multiple times; we use to go back to plant and try again and work on the same."

He said, "So, the First thing was, continuous counter current extraction, Liquid Liquid Extraction (LLE) technology, we moved to laminar fluid extraction using pack columns. This was something which can be used for phases which had narrow difference less than 50 kg per meter cube where our standard mixer settlers, shift tray contactors, rotary fixtures were failing. We applied the same, this technology was less capital incentive, steady state process."

Rallis India Ltd. Was also honored with the prestigious 'ICC - K.V. Mariwala Award for Effective Chemical industry - Academia Partnership' in collaboration with Institute of Chemical Technology (ICT), Mumbai

Focusing on improving the manufacturing efficiencies, Mr. Gajanan Pokale, DGM (LOTE UNIT), Rallis India Limited said that they collaborated with Institute of Chemical Technology (ICT), Mumbai and the preposition of the partnership was to provide consultancy to the in-house team to identify gap and establish process/technology for improvement.

While the Rallis team, under the guidance of Dr. Patwardhan and Prof. Gogate conducted various DOEs to understand the reaction kinetics, material balance and triggers for impurity generation and concluded that the impurities are formed in the reaction mass if the temperature increases above 55 Degree Celsius after particular time duration. The moisture content of the solvent in the reaction stage leads to yield loss. With the increase in cooking time above 90 mins, the impurity generation is observed higher. The RM-2 reactant was found 2-3% unreacted on quantitative basis during the material balance. This unreacted RM-2 may contribute to impurity generation at later stage resulting the yield loss. The impurity levels increases significantly during the distillation stage which involves the recovery of RM-1 solvent upto 65 degree celsius temperatures in Atmospheric distillation stage. The agitator RPM of the crystallizers are slow and the utility flow are not as per the requirement for crystallization.

Dr. Ashwin Patwardhan, Professor of Chemical Engineering Department was the speaker representing Institute of Chemical Technology (ICT), Mumbai.

Dr Ashwin Patwardhan, , said, "We became deemed university in 2009, it's all because of our faculties and students. We have all the branches of chemical technology, polymer, paints, food, then in textiles, dyes, oils. We also have good team for biotechnology and pharmacy, we have departments of basic sciences. Everything you need is there in ICT. We have satellite campus in Jalna and Bhubaneswar. We have Executive M.Tech Program in

Bhubaneswar. We work with petrochemical giants like Shell and Reliance Industries. ICT is mainly into teaching, research and consultancy. Everytime, we talk to industries, we learn more and it gives our students a good exposure of industry and academia."

ICC DEEPAK NITRITE ACHARYA P.C. RAY AWARD FOR DEVELOPMENT OF INDIGENEOUS TECHNOLOGY

Catasynth Speciality Chemicals Pvt Ltd was the winner for the prestigious award ICC DEEPAK NITRITE ACHARYA P.C. RAY AWARD FOR DEVELOPMENT OF INDIGENEOUS TECHNOLOGY.

Dr Paul Vincent Menacherry, Managing Director, Catasynth Speciality Chemicals Pvt Ltd said that their company is a joint venture between Anthea Aromatics Private Limited and Solvay, Belgium was founded in the year 2016.

Speaking about the achievements, Dr Paul said that their company manufactures Pyrocatechol derivatives like Methylenedioxybenzene (MDB), synthetic Piperonal (Heliotropin) and Piperonyl Butoxide (PBO). Catasynth is the only manufacturer of Piperonal in the world, outside of China.

Dr Menacherry highlighted their company's innovation which ensures availability of high purity and high quality Piperonal & PBO, manufactured in India. Piperonal is exported from India to North America, Europe, South East Asia as a sustainable alternative to the product from Sassafras trees. Catasynth have started domestic supplies for PBO and plan to export the product from India to United States, South America, Australia and South East Asia. The Indian market is around 150 MT of Piperonal per annum, with imports from China.

ICC AWARD FOR EXCELLENCE IN PROCESS DESIGN & ENGINEERING

HUNTSMAN INTERNATIONAL (INDIA) PVT. LTD has won the ICC AWARD FOR EXCELLENCE IN PROCESS DESIGN & ENGINEERING

Mr. Mayur Kumar Thumar, Process Engineering Lead, Huntsman International said that the in-house plant process engineering team of their Company's Baroda site, brainstormed and identified improvement opportunities in Dyes production process. The team came up with Street concept Digitalization Automation. In Street concept, 5 streets were defined based on flow of the products. Similarly, the product families were assigned to each street which made the minimum changeover times (40% Reduction), less rework (50% Reduction) and enhanced downstream occupancy which leads to higher production capacities. When the bottlenecks were eliminated then the production flow was improved drastically.

SESSION ON MANAGEMENT OF HEALTH & SAFETY

The Chairman for this specific session was Dr L M Gantayet, Member - Technology & Energy Expert Committee, ICC & Member - Awards Scrutinizing Committee, ICC.



DR L. M. GANTAYET, MEMBER-TECHNOLOGY & ENERGY EXPERT COMMITTEE, ICC AND MEMBER - AWARDS SCRUTINIZING COMMITTEE, ICC (CENTER), MR. P.A. GANESH RAO, THIRUMALAI CHEMICALS LTD, RANIPET (LEFT) AND MR. A. C. SARAVANAN, GENERAL MANAGER & FACTORY MANAGER (RIGHT).

ICC AWARD FOR EXCELLENCE IN MANAGEMENT OF HEALTH & SAFETY

Thirumalai Chemicals Ltd, Ranipet won the **EXCELLENCE IN MANAGEMENT OF HEALTH & SAFETY** award under the **Category I: Companies having annual sales revenue above Rs 1000 crores.**

Mr. P.A. Ganesh Rao, Thirumalai Chemicals Ltd, Ranipet said that their company is a large manufacturer of Phthalic anhydride, Fumaric acid and Malic acid. The company is certified for ISO 9001, ISO 14001, ISO 50001, ISO 45001 and SEDEX.

Emphasizing on their record of Zero Lost time Accident since 2012 till date, he added that the Safety Behaviour and Safety Culture that is imbibed in the minds of each employee is the key for achieving this. The journey of each employee at TCL starts with an elaborate Induction Training of Safety Systems, Procedures, Work place safety and various Engineering Controls. TCL developed a Safety Park Module with more than 40 models on Work place safety.

He also said that TCL has initiated the Process Safety Management (PSM) system with the following core elements to prevent high consequence process safety Incidents viz. (i) MOC (Management of Change); (ii) IIR (Incident Investigation & Reporting); (iii) PSSR (Pre-Startup Safety Review) and (iv) MIQA (Mechanical Integrity & Quality Assurance).

Indian Additives Ltd, Manali won the EXCELLENCE IN MANAGEMENT OF HEALTH & SAFETY award under the Category II: Companies having annual sales revenue below Rs 1000 crores.

Mr. A.C. Saravanan, General Manager & Factory Manager, Indian Additives Limited (IAL), was the speaker for this

session and he highlighted some of the Key differentiators of IAL's HSE systems/practices are leadership demonstration, strong process safety, improved safety systems and processes, Robust Incident Investigation & Reporting (IIR) process and wecare initiatives, etc.

Indian Additives Ltd. is an equal joint venture between Chennai Petroleum Corporation Ltd. (CPCL) and Chevron Oronite Company LLC, USA (COC) and was established in the year 1989 to manufacture and market Additives for the Lubricating Oil industry in India. IAL is well known for its Health, Safety & Environmental (HSE) practices and is certified for ISO 9001 and 14001 (2015 standards).

SESSION ON MANAGEMENT OF ENVIRONMENT:

This session was chaired by Mr. Suresh Ramachandran, Country Head & Managing Director, Arkema India & Member - Awards Scrutinizing Committee, ICC.



MR. SURESH RAMACHANDRAN, COUNTRY HEAD & MANAGING DIRECTOR, ARKEMA INDIA & MEMBER - AWARDS SCRUTINIZING COMMITTEE, ICC (CENTER), MR. S GAJENDIRAN, EXECUTIVE VICE PRESIDENT - OPERATIONS, CHEMPLAST SANMAR (LEFT) AND MR. OLICHANDRAN MATHIVANAN, SITE MANAGER, CLARIANT CHEMICALS (INDIA) LTD, CUDDALORE (RIGHT).

ICC - EVONIK AWARD FOR EXCELLENCE IN MANAGEMENT OF ENVIRONMENT

CHEMPLAST SANMAR LIMITED, METTUR won the award for the ICC - EVONIK AWARD FOR EXCELLENCE IN MANAGEMENT OF ENVIRONMENT for the Category I: Companies having annual sales revenue above Rs 1000 crores.

Explaining about the key Initiatives undertaken by the Chemplast Sanmar Limited, Mettur, Mr. S Gajendiran, Executive Vice President - Operations said that the Environment Management includes Zero Liquid Discharge, source reduction and effective recycling, Effective control on utilization of resources, Extensive rainwater harvesting systems, Effective water and air quality monitoring systems, Water & Energy conservation measures, Setting up of Continuous Ambient Air Quality Monitoring Stations, Utilization of hazardous waste for beneficial applications, Continuous reduction of Carbon footprint, External audits of Water, Air Modelling, Solid Waste Management & Fugitive Management and Extensive greenbelt development.

CLARIANT CHEMICALS (INDIA) LIMITED, Cuddalore won the award for the ICC - EVONIK AWARD FOR EXCELLENCE IN MANAGEMENT OF ENVIRONMENT for the **Category II: Companies having annual sales revenue below Rs 1000 crores.**

Mr. Olichandran Mathivanan, Site Manager, Clariant Chemicals (India) Ltd, Cuddalore explained about the Key initiatives undertaken by the Site towards Sustainability of environment including Focussing on keeping emissions below the pollution standards, Water conservation initiative, Continuous Emission Monitoring System (CEMS) displayed at the main gate, Globally Harmonized System (GHS) information incorporated on product storage drums, Effluent parameters are linked to Water Quality Watch (WQW) and CARE Air Centre transmitted to Pollution Control board server., 15000+ trees planted, grown, and maintained at site , Rainwater harvesting system, Operational Excellence Management Systems with support from environmental management program conducted at Site,

SESSION ON ENERGY CONSERVATION & MANAGEMENT:

The Session Chairman was **Mr. O.P Goyal, Member - Technology & Energy Expert Committee, ICC & Member-Awards Scrutinizing Committee, ICC.**



MR.O.P.GOYAL, MEMBER-TECHNOLOGY&ENERGY EXPERT COMMITTEE, ICC & MEMBER- AWARDS SCRUTINIZING COMMITTEE, ICC (CENTRE), MR. S .R. UDAYAN, HEAD - ENERGY, BLUE & GREEN HYDROGEN TECHNOLOGY, JAMNAGAR MANUFACTURING DIVISION (JMD), RELIANCE INDUSTRIES LTD (LEFT) MR. SUNDARAKANNAN M, ASSISTANT MANAGER- TECHNICAL SERVICES, KOTHARI PETROCHEMICALS LTD, MANALI (RIGHT).

ICC AWARD FOR EXCELLENCE IN ENERGY CONSERVATION AND MANAGEMENT

Reliance Industries Ltd, SEZ Div, Jamnagar won the ICC AWARD FOR EXCELLENCE IN ENERGY CONSERVATION AND MANAGEMENT under the **Category I: Companies having annual sales revenue above Rs 1000 crores.**

Mr. S .R. Udayan, Head - Energy, Blue & Green Hydrogen Technology, Jamnagar Manufacturing Division (JMD), Reliance Industries Ltd spoke about the Energy cell of Reliance's SEZ Refinery which does awareness drive on Energy Conservation by delivering lectures/presentations to various disciplines, arranging brain storming sessions

for generating energy conservation ideas. Regular ENCON studies are conducted to analyse energy consumption patterns and variance are rigorously scrutinised. Use of ERTO-Energy real time optimiser for integrated DTA, SEZ and C₂ CPPs fuel, power, steam, and hydrogen on hourly basis and implement recommendations after due deliberations to reduce fuel bill.

ICC - EXCEL INDUSTRIES AWARD FOR EXCELLENCE IN ENERGY CONSERVATION AND MANAGEMENT

Kothari Petrochemicals Ltd, Manali won this award under the **Category - II: Companies having annual sales revenue below Rs 1000 crores.**

Mr. Sundarakannan M, Assistant Manager- Technical Services, Kothari Petrochemicals Ltd, Manali spoke about the numerous schemes implemented in different plant areas such as Effective Utilisation and Heat recovery from steam condensates, Recovery and utilization of process off-gas generated, Daily monitoring of energy usage along with efficiency of significant energy users and Conducting Regular internal and external audits and implementation of findings.

SESSION ON HUMAN RESOURCE MANAGEMENT IN THE CHEMICAL INDUSTRY

The Session Chairman was **Mr. Vikram Singhal, President, Gulbrandsen Technologies, Inc. & Member - Awards Scrutinizing Committee, ICC.**



(R-L) MR VIKRAM SINGHAL, PRESIDENT, GULBRANDSEN TECHNOLOGIES, INC. & MEMBER - AWARDS SCRUTINIZING COMMITTEE, ICC ADDRESSING THE DELEGATES, MR SUMIT NEOGI, HR DIRECTOR FOR SOUTH ASIA, MIDDLE EAST & AFRICA, LUBRIZOL INDIA PVT LTD AND MR S ADEEL, GENERAL MANAGER - HR, ORIENTAL CARBON & CHEMICALS LTD.

EXCELLENCE IN HUMAN RESOURCE MANAGEMENT IN THE CHEMICAL INDUSTRY

Lubrizol India Pvt Ltd won the EXCELLENCE IN HUMAN RESOURCE MANAGEMENT IN THE CHEMICAL INDUSTRY under the **Category I: Companies having annual sales revenue above Rs 1000 crores.**

Talking about the HR policies, Mr. Sumit Neogi, HR Director for South Asia, Middle East & Africa, Lubrizol India Pvt Ltd explained about group personal accident insurance policy, policy for prevention, prohibition and redressal of sexual

harassment of women at workplace, anti-harassment and non-discrimination and employee recognition policy

Explaining further, he added that the company offers Role Change Promotion when an employee is assuming significantly more responsibilities either in their department or another department. It also offers Career Ladder Promotion, at the time of promotion of an individual contributor to the next higher level in the position family. Lubrizol's Group Medclaim Policy is unique, as it provides Sum Insured (company funded) up to INR 10 lakhs per annum. There is no age capping for dependent parents under this policy. The unique feature of Lubrizol is that the company has the lowest attrition rate of 1.6% as compared with the industry standard of 9%.

Oriental Carbon & Chemicals Ltd won the EXCELLENCE IN HUMAN RESOURCE MANAGEMENT IN THE CHEMICAL INDUSTRY under the Category II: Companies having annual sales revenue below Rs 1000 crores.

Mr. S. Adeel, General Manager - HR, Oriental Carbon & Chemicals Ltd spoke about the HI-Pot scheme to identify & nurture star performers for a Fast track growth. They also provide Entry level Talent pool scheme to nurture young talent for HOD level roles in the organization from a future planning standpoint. Company has various other employee friendly policies such as Work from Home Policy, Flexi-timing etc., sense of care (Mediclaime, Term life, GPA), aspiration to excel (Hi-Pot, Talent Pool, Higher education support etc.), short-term/long term recognition (Promotion policy, Cash Award Policy) for its employees.

He also added that the company provides promotion and career planning opportunities by way of Vertical Promotion based on significant change in the role size. There is a 20% increase in CTC over the consecutive years for retention of such key talent via vertical promotions.

SESSION ON RESPONSIBLE CARE AND NICER GLOBE

The Chairman for the fourth session was **Mr. Jayant V Dhobley, Business Head & CEO - Global Chemicals, Fashion Yarn & Insulators, Aditya Birla Group & Member-Awards Scrutinizing Committee, ICC.**

Dow Chemical International Pvt Ltd won ICC Aditya Birla Award for Best Responsible Care Committed Company.

Mr. Neeraj Jain, Responsible Care Director, Dow Chemical International Pvt Ltd apprised that Dow's safety leadership is extended beyond the company and has not only spearheaded industry collaborative platforms like Nicer Globe but also persistently mentoring other chemical companies to implement Responsible Care codes. Sustainability is one of the strategic pillars of Dow. With Dow's '2025 Sustainability Goal' company is redefining the role of business in sustainability through leadership and action. Dow India has established 'India Sustainability Council' which actively works towards various initiatives like cleaning the beaches, plastic collection and recycling initiatives etc.

He added, "Dow has **"Drive to Zero"** safety initiative demonstrating relentless pursuit to reach "zero" – zero injuries, zero incidents and zero excuses. Most of Dow India sites have zero reportable injury/incident since inception i.e. more than a decade. Dow has developed and implemented World class **Operating Discipline Management System (ODMS)** which contains policies, standards, work processes, best practices and procedures."

Ms Nikita Mahadeshwar, Sr EHS Manager, Dow Chemical International Pvt Ltd said that the key to their success is Strong Leadership Commitment, Management Systems and Standards, Advanced Technologies and People Engagement.

Chemplast Sanmar Ltd won the ICC Award for Best Nicer Globe User Company.

Mr. N. Devendiran, Senior General Manager- Safety said that the Company has been a Nicer Globe (NG) member since July 2019. In the first year 2019-20, they were in the lower slab of Nicer Globe for 100-200 trips and in the year 2020-21, they upgraded their slab to 1000 trips and above, bringing in all their trips into the NG platform.

Murugan Oil Corporation Logistics (MOC) won the ICC Award for Best Logistics Service Provider (LSP) under Nicer Globe.

Mr. S. Duraisamy, Partner - MOC said that has been operating on this space for about 50 years now. Their Mission statement is built on four pillars: Customers, Drivers, Environment and Community.

The event also saw the Felicitation of three Best Drivers under Nicer Globe.

- Mr. Ali Ashjad of Golden Chemical Agencies (operates for Lanxees India Pvt Ltd)
- Mr. Swaminathan M of MOC (Murugan Oil Corporation) Logistics (operates for Chemplast Sanmar Limited)
- Mr. Kumar P. of VAT logistics (operates for Chemplast Sanmar Limited)



MR. JAYANT V DHOBLEY, BUSINESS HEAD & CEO - GLOBAL CHEMICALS, FASHION YARN & INSULATORS, ADITYA BIRLA GROUP & MEMBER- AWARDS SCRUTINIZING COMMITTEE, ICC (RIGHT), MR. CHANDRAKANT NAYAK, PRESIDENT & CEO, DOW INDIA (LEFT), SHANKAR KUPPUSAMY, CEO, NICERGLOBE (SECOND FROM LEFT) FELICITATING THE BEST DRIVERS.

PRESENTATION OF ICC AWARDS 2021

ICC had organised its Annual Awards Presentation Function on 30 September 2022 at the Taj mahal palace, colaba, Mumbai. More than 300 invited dignitaries attended the function and cheered the Award winners during the 2 hour-long function.

Dr. (Ms.) Ilham Kadri, CEO, Solvay S.A. was -- the Chief Guest representing Global Chemical Industry for the event who had joined virtually. Mr. Arun Baroka I.A.S., Secretary, Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Government of India was the Chief Guest and Mr. Susanta Kumar Purohit, Jt. Secretary – Chemicals, Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Government of India had his gracious presence during the ICC Awards Presentation Function

RESILIENCE OF THE INDUSTRY TESTED

In his welcome address, Mr. Ravi Goenka, the outgoing President has termed the last two years as extremely challenging for the industry. "We have seen disruptions like never before, and the resilience of the industry has been severely tested."



MR RAVI GOENKA, OUTGOING PRESIDENT, ICC DELIVERED THE WELCOME ADDRESS.

He added that the Indian chemical industry has the skill and scale to rise up to the next level. He also mentioned that the Global mega trends are coming home – be it in electric vehicles, electronics, semiconductors or photovoltaics. These sectors offer tremendous opportunities, particularly for speciality chemicals. The 'Europe plus one' opportunity, implies contract wins for Asia, including India.

Mr. Goenka also noted that the Indian chemical industry is on a capex cycle hitherto unseen, and this trend will accelerate further. "Anywhere between \$50-80 billion is likely to be invested in the Indian chemical industry in this decade," he added.

Dwelling on the achievements and activities of the association, Mr. Goenka pointed out that ICC is now a full member of the International Council of Chemical Associations (ICCA), and is the sole voice from India on this body. This makes it possible for ICC representatives to participate in various meets and committees of the ICCA, and keep abreast of global developments as they unfold. On the PLI Scheme, he added that ICC is working with the Government of India on the recommendations given.

PRODUCTION LINKED INCENTIVE (PLI) SCHEME FOR INCENTIVISING PRODUCTION OF CHEMICALS



MR ARUN BAROKA, I.A.S., SECRETARY, DEPARTMENT OF CHEMICALS & PETROCHEMICALS, MINISTRY OF CHEMICALS & FERTILIZERS, GOVERNMENT OF INDIA ADDRESSING THE DELEGATES.

Mr. Arun Baroka, I.A.S., then Secretary, Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Government of India noted that the government is cognizant of the need to address the matter of single source of imports to provide security of supply, and is also framing suitable policies to address the supply-demand deficits in several value chains. While he admitted that there are several challenges to fill all of the gaps, several of these could, however, be addressed.

He added, "The Government is also aware of issues related to free trade agreements (FTAs) – having received several representations from several industry lobby groups but need to take decisions based on overall national interests, not just sectoral interests."

Speaking further on the Production Linked Incentive (PLI) Scheme for incentivising production of chemicals not hitherto produced at all or inadequately so, he noted that the discussions are back on track. Some tangible announcement is likely in the next one or two months.

NO PROGRESS WITHOUT CHEMISTRY

Dr. Ilham Kadri, CEO, Chair of Solvay Executive Committee & Member of Solvay Board of Directors, addressed the audience from Brussels, Belgium.



DR. ILHAM KADRI, CEO, SOLVAY, S.A., JOINED THE DELEGATES VIRTUALLY.

In her address, she observed that the chemical industry is blamed for many of the ills that modern society faces, it is in fact part of the solution for a transition and more sustainable growth path.

She added, "There will be no progress without chemistry, but a new type of chemistry is necessary. It is key to create the sustainable and shared values."

Keeping in mind the dramatic transformations ongoing in the energy and transport sectors, she noted, is investing in areas such as solid state batteries as a more sustainable option for lithium batteries based on scarce elements and compounds. The agro solutions developed by the company, she added, are reducing the need for chemical inputs, while the fish farming solutions are enabling eco-friendly aquaculture.

On Solvay's operations in India, she informed that the company has a strong footprint spread over six sites and one Research & Development (R&D) centre. At the Panoli site of Solvay, 30% of energy already comes from renewables, and plans are in place to take this number up, as part of Solvay's global commitment to carbon neutrality.

Launch of Training Modules for Safety & Environment in MSMEs



Mr. Arun Baroka I.A.S., Mr. Susanta Kumar Purohit, Mr. Bimal Goculdas, Mr. Ravi Goenka, Mr. Rajen Mariwala, Mr. Suresh Ramachandran, Prof Aniruddha Pandit launched The ICC – ICT Training Modules for Safety & Environment in MSMEs.

The other highlights of the evening was the baton change and Felicitation of Dr. Prakash Trivedi.

It has been a tradition of ICC to handover the baton from the outgoing President to incoming president. Accordingly, Mr. Ravi Goenka, outgoing President, ICC handed over the baton to Mr. Bimal Goculdas.



Dr. Prakash Trivedi, an eminent polymer scientist and senior industry professional, also known as the 'Father of Speciality Polymers in India' was felicitated at the event for his valuable contribution as Honorary Editor of ICC's monthly journal, Chemical News.



10TH INDIA INTERNATIONAL PHOSGENE SAFETY CONFERENCE

Indian Chemical Council (ICC) - Gujarat Chapter successfully organised the **10th India International Phosgene Safety Conference** on **1st September 2022** at **Vadodara, Gujarat**.

The event was attended by more than 80 delegates, 4 overseas experts, 6 Indian speakers and 2 virtual presentations. The participants were mainly from Phosgene handling plants and a few other organisations as well. The attendees were from Process safety, Engineering, Production, Operation, and also Medical officers of the plants.

India International Phosgene Safety Conference is the annual event of ICC Gujarat since 2012. Due to the pandemic break and restrictions on international travel, it was held virtually in 2020 and 2021. After a gap of two years, this face-to-face physical event was a grand success.



MR. RAVI KAPOOR, CHAIRMAN - ICC GUJARAT AND MD, HEUBACH COLOUR INDIA PVT. LTD. DELIVERED THE WELCOME ADDRESS.

Mr. Ravi Kapoor, Chairman, ICC Gujarat Chapter and MD, Heubach Colour India Pvt. Ltd. delivered the welcome address. He emphasized the importance of maintaining high safety standards in not only Phosgene handling facilities but all types of Chemical plants. Mr. Kapoor underlined the relevance and importance of the Responsible Care initiative of ICC and urged the industry representatives to adopt the same.

He introduced and invited the chief guest of the day **Mr. P. K. Taneja, IAS (Redt.)**, Director General, Gujarat Institute for Disaster Management (GIDM).



MR. P. K. TANEJA, IAS (REDT.), DIRECTOR GENERAL, GUJARAT INSTITUTE FOR DISASTER MANAGEMENT (GIDM) WAS THE CHIEF GUEST FOR THE EVENT.

Mr. Taneja appreciated the initiative of ICC of bringing the Phosgene manufacturers together on the same platform and the efforts to continue since 2012. He mentioned that India is developing and a key global player in chemical manufacturing and Gujarat more so. Rapid industrialization has increased the hazard, exposure, vulnerability and risk of the industry and infrastructure. All these constitute disaster risks. Annually, thousands of people are injured in the factories in India and crores of rupees are spent in treatment. Rehabilitation is a big concern too. The lasting impact of climate change on disasters is continuously growing, affecting the industry. Therefore, it is absolutely necessary and very important for the industry to comply with more and more occupational safety and health-related regulations.



(L-R) MR BAVANJI VENKARIYA, MR RAVI KAPOOR FELICITATED MR PK TANEJA, ALONG WITH DR KURT MEURER AND MR JAIKUMAR.

Presentation by **Dr. Kurt Meurer**, Covestro Global, Leverkusen, Germany, International Isocyanate Institute (III PSECC) on "Global Phosgene Industry Update 2022" was next.

- Dr. Meurer covered the points such as **2022 Attenuation of High-Volume Growth Rates, Global Industrial Zones with Phosgene; Phosgene Fatalities in Chemical Industry; III's Phosgene Safety Practices (PSP); Global Use of Medical Badges well-established**

- **Development Status of Phosgene Industry Practices (PSP) by Country** during his presentation.

After that **Mr. Bavanji Vekariya**, Chairman IPC and Site-head Ankleshwar, Covestro India Pvt. Ltd. Presented on "India Phosgene Council – Update and Way Forward." He gave details on the points such as IPC Organisation; Achievements of IPC; Topics of Interest – Presented during meetings; III & Industry Group Meetings 2022; Virtual meetings due to pandemic; Celebrations of world environment day; Phosgene Badges; Proposed 2022 road map concerning Indian Phosgene Council.



Indian Phosgene Council (IPC) put together the "**Phosgene Safety Guidelines**" and the same was unveiled during the 8th India International Phosgene Safety Conference in 2019. Looking at its usefulness, it was discussed among the IPC members to translate it into the local language – Gujarati or Hindi, so it could be useful to workers of all levels. ICC facilitated the translation of the "Phosgene Safety Guidelines" into Gujarati, as most of the Phosgene handling facilities are in Gujarat and the workers are mainly Gujarati speaking. All the dignitaries on the dais were requested to unveil the Gujarati Phosgene Safety Guidelines. **Mr. S. Jaikumar**, Secretary General, Indian Chemical Council delivered "Vote of Thanks". **Dr. med Marc Vosskaemper**, Covestro, Brunsbüttel, Germany delivered a presentation on "Rescue Chain Management and Emergency Treatment Options". He started his speech with the quote – "Safety does not end with prevention". He explained one true story of handling an incident in a clinic in northern Germany. He also talked about the Ideal Phosgene-Specific Rescue Chain. He insisted on giving Phosgene site medicals required assistance like – Badges, Internal & External Training. He also mentioned Site medical provisions for qualified crisis response. He ended his presentation with points on PSG Global Medical Group / latest developments and what is the global community working on.

Mr. Ulrich Hollmann, Covestro, Germany presented on "Quality Assurance for Equipment and Pipes in Phosgene Service." He covered the following topics in his presentation. General design requirements Covestro approach for standard devices Quality Assurance for PCT Equipment in Phosgene Service Quality Assurance for metallic Equipment in Phosgene Service Quality Assurance for piping in Phosgene Service.

Dr. Christian Lange, Covestro, Leverkusen, Germany delivered very informative presentation on "RCA after Incidents or Near-Misses, Lessons Learned."

Dr. Lange shared three case studies with the audience.

- Phosgene Release during Maintenance Activities in NAFTA Region in 2018
- Phosgene Release at normal operation in ASIA Region in 2017
- Phosgene Release at normal operation in EU Region 2021

He explained the incidents and their cause as well as the actions to prevent the accident.

Mr. Hisao Kokeyuchi, III AP, Tokyo, Japan shared a presentation on "Japan - Lessons Learned from a big Earthquake." He discussed in detail and gave information about the following points.

- 2011 East Japan Big Earthquake
- Direct effect by the earthquake
- Effect by Tsunami
- Communication difficulties
- Soil Liquefaction

Mr. Artur Klinger, Dow, Stade, Germany/USA also presented online on "Key Elements of Decontamination of Phosgene Generators." He explained about the type of reactor used for Phosgene Generators; type of Catalyst used; why to open a phosgene reactor; Safe removal of Phosgene from activated carbon; phosgene on the catalyst present inside the reactor and disposal of spent catalyst.

- **Mr. Piyush Shah**, Head- Corporate EHS, UPL Ltd. Presented on "Need for Process Safety in the Chemical Industry." He very well covered the topics such as How do we benchmark our Safety Success?; Paradigm: Workplace vs. Process Safety; Process Safety Management; Zeroth Law of Asset Productivity; Distinction: Workplace vs. Process Safety in his presentation.

Mr. Shah emphasized that "Process risks need to be in organization's consciousness from BOARD ROOM to CONTROL ROOM!"

After that **Mr. Anilkumar Goel** – Head Manufacturing, Paushak Ltd. gave an insightful presentation on "Strengthen Process Safety Management System." He explained Strengthen Process Safety Management System; Commissioned New automated Phosgene & Chloroformates plants; Strengthen Emergency Management System; Joint Mock Drills with NDRF; National Safety Week Celebration 2022 EHS Awareness Programmes.

- **Mr. Pratik Patel**, Manager-Operations, GNFC Ltd. presented on "Safety Practices at GNFC, Bharuch." Mr. Patel explained Phosgene plant flow diagram; Phosgene plant - cooling circuit in close loop for safety; Other Safety Features In Phosgene Plant; Emergency Response Crew.
- **Dr. Milan Thakkar**, FMO-OHC, Medical Officer, Paushak Limited spontaneously shared a presentation on medical treatment for Phosgene inhalation. He shared the information regarding first aid, treatment, symptoms etc. in detail.

All the presentations were highly appreciated by the participants and many interactions happened over various topics. The discussions were technical and informative which will help the organisations in their day-to-day processes.

Mr. Jaikumar, Secretary General, ICC thanked all the participants. The event was concluded with the hope of meeting again in the next year 2023.

ICC'S FLAGSHIP EVENT 'SUSTAINABILITY CONCLAVE' WAS CONDUCTED ON 17-18 NOVEMBER 2022 AT NEW DELHI

The conclave was inaugurated on 17th November 2022 by Mr. Arun Baroka (IAS), Secretary, Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Government of India, who was also the Chief Guest.

Delivering the Inaugural address, he advocated a holistic approach and drew attention to the need for scientifically worked out BIS standards, focus to safety and environment, more training required by MSMEs. He advocated the need for decriminalizing of rules. He supported the concept of Circular economy. He also released the Knowledge Paper prepared by ERM, the Knowledge Partner for the Conclave since its inception.

The fourth edition of ICC's flagship event "ICC Sustainability Conclave" was successfully organized at the Imperial, New Delhi on 17-18 November 2022 with the support of Department of Chemicals and Petrochemicals (DCPC), Ministry of Chemicals & Fertilizers, Government of India, Ministry of Environment and Forest & Climate Change, UNEP and International Council of Chemical Association. The theme of the Conclave was "From Board Room to community "ESG, Carbon Neutrality, Operational Safety, Greener Solutions". The conclave saw 50+ experts deliberating on various topics and the participation of more than 250 delegates.

Mr. Bimal L. Goculdas, President ICC and MD & CEO, DMCC Speciality Chemicals Ltd. welcomed the dignitaries. He highlighted the impact of climate change, and mentioned that there is a need to look carbon foot print, low energy, best practices, economic competitiveness and quality, better disposal, environmental impact, payment to protect environment, PLI scheme consideration and need to ensure the equality etc. and the theme of sustainability.

The Conclave was attended by CEOs, key business representatives, policy makers, Government agencies and experts. In the conclave, the discussion were on ESG, carbon neutrality, operational safety, greener solutions, salient developments, and the way forward from Boardrooms to Community in respect of the chemicals and petrochemicals industry.



(L-R) MR. ASHWIN C. SHROFF, CHAIRMAN & MD, EXCEL INDUSTRIES LTD, MR. RAVI KAPOOR, CONCLAVE CHAIRMAN; CHAIRMAN, SUSTAINABILITY COMMITTEE, ICC AND MD, HEUBACH COLOUR INDIA, MR. ARUN BAROKA (IAS), SECRETARY, DEPARTMENT OF CHEMICALS & PETROCHEMICALS, MINISTRY OF CHEMICALS & FERTILIZERS, GOVERNMENT OF INDIA, MR. BIMAL L. GOCULDAS, PRESIDENT ICC AND MD & CEO, DMCC SPECIALITY CHEMICALS LTD, MS JACQUELINE ALVAREZ, CHIEF CHEMICALS AND HEALTH BRANCH UNEP AND MR. VIKRAM SINGHAL, PRESIDENT, GULBRANDSEN TECHNOLOGIES AT THE INAUGURAL SESSION.

Mr. Ravi Kapoor, Conclave Chairman & Chairman, Sustainability Committee, ICC and MD, Heubach Colour India, highlighted the importance of sustainability and the initiatives of ICC, ESG, Responsible Care, Chemical Weapon Convention, Phosgene Council, Safe transport for hazardous goods, way forward for ICC move from promoting chemical industry to sustainable chemical industry, carbon neutrality, He also explained about Indian Chemical Council concerning to the implementation of Chemical Weapons Convention in the country.



(L-R) MR. ASHWIN C. SHROFF, CHAIRMAN & MD, EXCEL INDUSTRIES LTD, MR. RAVI KAPOOR, CONCLAVE

CHAIRMAN; CHAIRMAN - SUSTAINABILITY COMMITTEE, ICC AND MD, HEUBACH COLOUR INDIA, MR. ARUN BAROKA (IAS), SECRETARY, DEPARTMENT OF CHEMICALS & PETROCHEMICALS, MINISTRY OF CHEMICALS & FERTILIZERS, GOVERNMENT OF INDIA, MR. BIMAL L. GOCULDAS, PRESIDENT ICC AND MD & CEO, DMCC SPECIALITY CHEMICALS LTD, MS JACQUELINE ALVAREZ, CHIEF CHEMICALS AND HEALTH BRANCH UNEP AND MR. VIKRAM SINGHAL, PRESIDENT GULBRANDSEN TECHNOLOGIES WITH THE KNOWLEDGE PAPER.

Mr. Ashwin C. Shroff, Chairman & MD, Excel Industries Ltd. delivered the sustainability Address. He explained the key challenges viz. environment, climate change threat, requirement of behavior change, adoption of good practices, CO₂ emission reduction, focus from production to consumption, leverage technology for sustainability, generation of methane from waste for cleaner energy solutions.

Mr. Nitin Desai, Chairman, Governing Council TERI, Former Under Secretary General for Economic & Social Affairs, United Nations delivered the key note address and discussed on chemical industry climate change impact, CO₂ capture, recycle of waste and R&D for technology as major concerns, ICC should promote chemical industry sustainable. The Special address was delivered by Ms Jacqueline Alvarez, Chief Chemicals and Health Branch UNEP.



(L-R) MR. YOGESH M KOTHARI, CMD, ALKYL AMINES CHEMICALS LTD, MR. ANIL KHUBCHANDANI, PRESIDENT CO-CEO & WHOLE TIME DIRECTOR JUBILANT INGREVIA, MR. RAVI KAPOOR, CONCLAVE CHAIRMAN; CHAIRMAN - SUSTAINABILITY COMMITTEE, ICC AND MD, HEUBACH COLOUR INDIA, MR. MUKESH MALHOTRA COUNTRY MANAGER AND MD SOLVAY INDIA, MR. RAVI GOENKA, IMM PAST PRESIDENT ICC AND CMD LAXMI ORGANIC INDUSTRIES LTD, MR. RANJEET SINGH, CEO KANORIA CHEMICALS AT CEO'S PANEL DISCUSSION.

Ms. Neelkamal Darbari (IAS), then Chairperson, National Authority, Chemical weapons Convention, Cabinet Secretariat, Government of India, was the Chief Guest during opening session on 18th November 2022. She highlighted the chemicals and petrochemicals growth

with quality of life, sustainability, recycle of waste, boardroom to society to provide cleaner technology and clean water.



(L-R) MR. HARENDER RAJORA , VICE PRESIDENT MKTG HPCL-MITTAL ENERGY LTD, MR. YOGESH M KOTHARI CMD ALKYL AMINES CHEMICALS LTD, MR. BIMAL L. GOCULDAS, PRESIDENT ICC AND MD & CEO, DMCC SPECIALITY CHEMICALS LTD, MS. NEELKAMAL DARBARI (IAS), CHAIRPERSON, NATIONAL AUTHORITY, CHEMICAL WEAPONS CONVENTION, CABINET SECRETARIAT, GOVERNMENT OF INDIA, MR. RAVI KAPOOR, CONCLAVE CHAIRMAN; CHAIRMAN, SUSTAINABILITY COMMITTEE, ICC AND MD, HEUBACH COLOUR INDIA AND MR. S R DEO, MD, NOCIL LTD.

The conclave deliberated on the following issues:

- 1) ESG in Boardrooms – Vision and Strategies for value creation
- 2) Decarbonizing the Chemical Sector: Reflections to Actions
- 3) Product Stewardship – Going beyond Regulatory Landscape
- 4) Unlocking the potential of Digital Transformation for Sustainability
- 5) Exploring Green Growth Opportunities: Solutions & Technologies
- 6) Leveraging Cleaner Energy Transitions
- 7) Safety Promotes Sustainability
- 8) Embracing Net-Zero Transition: Risks & Opportunities
- 9) UNEP - Plastic Pollution: Strengthening the Role of the Industry

There was also a CEOs roundtable discussion on theme of the conclave.

The Vote of thanks was given at the end to all concerned and participants.

INDUSTRY INSTITUTION PARTNERSHIP SUMMIT 2022:

On 8th December 2022, ICC-Southern Region under the leadership of Ms. Ramya Bharathram, MD & CEO Thirumalai Chemicals Ltd and Chairperson, ICC SRO had organized the 1st Edition of the "Industry Institution Partnership Summit" at Hotel Raintree, Chennai. The event was organized in association with Indian Institute of Technology Madras and M/s Avalon Consulting. The theme of the summit was to envision a roadmap for strengthening Industry- Academia linkages for transforming the chemical industries. The event was attended by large number of delegates and was well covered in the media.



Mr. Bimal L. Goculdas, President, ICC, participated in the inaugural session and shared his thoughts on the different types of Industry-Institution partnerships in developed countries and emphasized on how India can improve in this aspect.

The rationale and importance of the summit was highlighted by Mr. Abhimanyu Roy, Executive Director, Avalon Consulting. He put into spotlight the triple helix of challenges faced by the chemical industry – a lack of capacity in researchers and funding, a lack of quality among projects and students, and lastly a lack of proper systems & processes, among academia, industry, and the government that needs to be dealt with, by fruitful partnerships between all three entities.

Prof. Manu Santhanam, Dean IC & SR, IIT Madras, and Mr. R. Parthasarathy, Chairman, Thirumalai Chemicals Ltd (TCL) presented their thoughts on the Academia and Industry perspective respectively on defining a vision for strengthening Industry-Institution partnership.



Prof. Santhanam highlighted the scope of activities and infrastructure available for Industry-Institution partnerships at IIT-M and the various engagement models and examples of successful collaborations at the Institute. He also outlined the track record of the institute in terms of patents, funding and the number of projects. He also highlighted on the Research

Park established at IIT-M as a successful partnership model.

Mr. R. Parthasarathy, Chairman, Thirumalai Chemicals Ltd & Past President, ICC shared his views on the challenges faced by the industry in collaborating with Academia, comparing his experience as a student in the US and in his industry while implementing various new projects at TCL. He expressed optimism that a matured understanding from both sides will result in more effective collaborations.

An overview of the chemicals R&D ecosystem in India was presented by Dr. Vadiraj Ekkundi, Director, Innova Smart LLP and Member of ICC R&D Sub-Committee, followed by important sessions on showcasing Technology Innovations in Industry, Successful Long-Term Collaborations, Learnings in Developing a World class Ecosystem for Partnerships, Intellectual Property, Government Initiatives & Regulatory aspects, Developing the Capability Base for Engineers and Talent Management Practices in the Chemicals Industry. Highly eminent speakers from both India and abroad spoke in the summit. Ms Ramya Bharatham delivered the concluding remarks.

THE SIXTEENTH ANNUAL INDIA CHEMICAL INDUSTRY OUTLOOK CONFERENCE & EXHIBITION

The Chemical Industry Outlook Conference – the annual flagship event of Indian Chemical Council - was held at Taj Lands' End, Mumbai on the 1st and 2nd of March 2023. The theme of this year's conference was "Indian Chemical Industry: March towards USD 1 trillion by 2040."

The event saw the attendance of about 600 delegates, active participation from veterans, experts and decision makers of the chemical industry in India and globally. The exhibition with a number of booths & the 'MODEL FACTORY IN A BOX' by McKinsey & Company were amongst the major highlights of this year's event.

As in the previous conferences, McKinsey & Company was the Knowledge Partner for this event too. While **ET Now** was the TeleCast Partner for the event, Chemical Weekly, Chemical Industry Digest, Indian Chemical News and PolymerUpdate were the Media Partners.

The two-day conference had insightful presentations and thought-provoking panel discussions with the active participation from the captains of the chemical industry. There were stimulating breakout sessions and active customer engagement in the exhibition booths. The two-day extravaganza brought to the fore various challenges and opportunities that lie before the chemical industry at large. The roadmaps to negotiate the future were received with a palpable buzz of optimism.

INAUGURAL SESSION

The Inaugural session commenced with the opening remarks by **Mr. Kamal P. Nanavaty**, Chairman – Conference & Exhibition Committee - ICC & President-Strategy Development, Reliance Industries Limited. He said, "Even though India lags way behind China in manufacturing of many chemical products, this could also be seen as an opportunity for the country to grow". Pointing out the need to reduce imports, Mr. Nanavaty said that in the C1 to C6 value chain, India's imports are close to 10 million tonnes of products every year valued at over \$13 Bn. This is a massive opportunity available for us to recapture and help drive petrochemicals self-sufficiency.



MR. KAMAL P. NANAVATY, CHAIRMAN – CONFERENCE & EXHIBITIONS COMMITTEE - ICC MADE THE OPENING REMARKS.

Mr. Bimal Goculdas, President, ICC while delivering his Welcome Address said that the current edition of the conference offers a unique opportunity for everyone, whether a CEO, business owner, a start-up entrepreneur, or people who are simply curious about the latest trends and developments in the industry.



MR. BIMAL GOCULDAS, PRESIDENT, ICC DELIVERED THE WELCOME ADDRESS.

He added that, "India has been an out performer globally. We do face lot of challenges, we don't have substantial oil and gas reserves, top-class infrastructure, etc. We do have

thousands of smart people joining the workforce every year from world class research institutes where technologies can be developed in speciality and fine chemicals, besides fostering the entrepreneurial mindset."

Mr. Erik Fyrwald, Global CEO - Syngenta spoke about the Indian Agrochemical sector and how it is shaping the MNCs. He said, their main purpose should be to help farmers ensure food security for the nation and be part of the solution to climate change.

While speaking about sustainable growth, he said that crop protection products are vital to protect and enhance yield. Indian agriculture should plan to feed the growing population and contribute to global food security. The Indian chemical industry should play a crucial role in making this happen. India is the fastest growing large economy in many areas. There is a need to constantly bring in new innovations to increase yields and to adapt to climate change. Syngenta and other organisations are helping Indian farmers to adopt seeding and enzyme technology so they stop burning crop residues before they sow the next seeds. These reduces CO₂ emissions and adds healthy carbon which increases the yields for the next crops.



MR. ERIK FYRWALD, GLOBAL CEO, SYNGENTA DELIVERED THE KEYNOTE ADDRESS DURING THE INAUGURAL SESSION.

Discussing about the Emerging World of Oil to Chemicals & Sustainability - Challenges & Opportunities, Mr. Nikhil R. Meswani, Executive Director, Reliance Industries Ltd. said that India's GDP is expected to be \$10 trillion by 2030 - which will be the 3rd largest in the world by 2030.

"Chemical industry is the essential foundation that every other industry is built upon. Around 96% of all manufactured products require the use of chemicals. Indian chemical industry is currently \$180 bn constitutes only 3% of global chemicals industry. But we will be the fastest growing chemicals market in the world and increase our share in the global chemicals industry," said Mr. Meswani.



MR. NIKHIL R. MESWANI, EXECUTIVE DIRECTOR, RELIANCE INDUSTRIES LTD. DELIVERED THE SECOND KEYNOTE ADDRESS DURING THE INAUGURAL SESSION.

He said, "Currently, India is a net importer of chemicals and chemical intermediates and there is a significant import localisation opportunity in several chemicals towards developing an 'Aatmanirbhar Bharat'. World is trying to reduce their dependence on Chinese manufacturing. Indian Chemical industry is uniquely positioned to benefit from China +1 owing to its competitive cost advantage, focus on quality and sustainability, conducive business environment led by reforms, and incentivised government policies."

Mr. Chris Musso, Sr. Partner, Denver - Rocky Mountains, McKinsey & Company, USA spoke about "Growing Bigger & Getting Stronger: Where Is Global Chemicals Headed?" He said that, "Frequent supply chain disruptions have led to rising volatility, organic growth is becoming harder, lagging on digitalisation is hurting competitiveness, and sustainability is here for real and is attracting capital. Sustainability is becoming a prerequisite for industrial companies' license to operate. Indian chemical companies can focus on building resilience through 6 key levers which are spend less, charge more, secure operations, optimise fixed costs, continue to invest in growth and use less energy."



MR. CHRIS MUSSO, SR. PARTNER, DENVER - ROCKY MOUNTAINS, MCKINSEY & COMPANY, USA DELIVERED THE THIRD KEYNOTE ADDRESS.

Dr. Srikar K. Reddy I.F.S., Joint Secretary, Ministry of Commerce & Industry, Government of India in his address gave a brief introduction on "India - UAE Partnership and Evolving Opportunities for Indian Chemical Companies".

Dr. Reddy highlighted how government initiatives like India-Australia Economic Cooperation and Trade Agreement (ECTA) and India-UAE Comprehensive and Economic Partnership Agreement (CEPA) signed recently are helping to open up new trade opportunities for the Indian manufacturing sector including the chemicals industry.



DR. SRIKAR K. REDDY I.F.S., JOINT SECRETARY, MINISTRY OF COMMERCE & INDUSTRY, GOVERNMENT OF INDIA ADDRESSED THE PARTICIPANTS.

He said these initiatives are expected to benefit about \$33-bn worth of Indian products subjected to import duty by UAE and Australia.

With the trade agreements coming into force, immediate market access at zero duty has been opened up for 90% of India's exports to UAE and over 96% of India's exports to Australia. Overall, duty elimination would be achieved for over 97% of tariff lines exported to UAE and 100% of tariff lines exported to Australia, he informed.

Speaking about the steps being taken by the government to support chemical industry growth, **Mr. Arun Baroka, Secretary – Chemicals & Petrochemicals, Ministry of Chemicals & Fertilisers**, who was the **Guest of Honour** said that an evaluation of the PCPIRs (Petroleum, Chemicals and Petrochemicals Investment Regions) in the country had led to the realisation that "these are very big and sometimes very difficult to manage". "The evaluation report has indicated that we must bring down the size to a level which can be managed easily. Another feedback was that these should be managed and led by the private sector with government being a partner in the public-private partnership mode," he said and added that some State Governments have already responded positively to this development.



MR. ARUN BAROKA I.A.S., SECRETARY – CHEMICALS & PETROCHEMICALS, MINISTRY OF CHEMICALS & FERTILIZERS ADDRESSED THE DELEGATES.

Explaining further about the status of much talked about production-linked incentive (PLI) scheme for the chemicals sector, the Secretary revealed that "internal consultations" are going on at the ministry level and the delay is to ensure that it will be a "fool-proof mechanism for providing incentives to the industry and to those chemicals which are really essential."

He urged the industry to work on perception management and to ensure that a positive image of the industry is conveyed to the general public, policy makers and political representatives. In this context, he lauded the 'Responsible Care' initiative being spearheaded by the ICC and urged all chemicals companies to adopt this programme.

Speaking on the issue of plastics pollution, he said though the problem is linked with the use of single-use plastics, the entire industry's image is impacted. "We need to change this negative perception and make people aware of the wide range of applications of this versatile material," he said.

Mr. Baroka also informed that the government is seeking to widen the scope of work for Central Institute of Petrochemicals Engineering & Technology (CIPET) from plastics to petrochemicals. "We have recently decided that they should also be acting as a centre for testing chemicals also. Their centres are located all over the country with headquarters in Chennai. These facilities not only provide an industry interface, but also provide skilling courses and numerous educational programmes. CIPET is likely to be converted to an institute of national importance, which will help provide even better interface with skilled manpower," he added.

Release of White paper:

A **whitepaper** titled '**India: The Next Chemicals Manufacturing Hub**' prepared by McKinsey & Company was released at the hands of Mr. Arun Baroka, Secretary – Chemicals & Petrochemicals, Ministry of Chemicals & Fertilisers.



RELEASE OF WHITEPAPER

Signing of MoU:

Also, a **MoU** was signed between ICC and ICT Mumbai for establishing **Centre of Excellence** on the occasion. Dr. Aniruddha Pandit, Vice Chancellor, ICT and Mr. Bimal Goculdas, President ICC exchanged the MoU copies after the signing ceremony.



SIGNING OF MOU BY ICC WITH ICT

Mr. Rajen Mariwala, Vice President - ICC and CEO, Eternis Fine Chemicals Ltd. proposed the vote of thanks at the end of Inaugural Session.



MR. RAJEN MARIWALA, VICE PRESIDENT, ICC & CEO, ETERNIS FINE CHEMICALS LTD. PROPOSED THE VOTE OF THANKS AT THE INAUGURAL SESSION.

TECHNICAL SESSIONS

SESSION – 2: OPPORTUNITY FOR INDIA IN A CHALLENGING WORLD - ENABLING GROWTH THROUGH INVESTMENTS

The FIRST Technical Session on day one was focused on ‘Opportunity for India in a Challenging World - Enabling Growth Through Investments.’

The Session Chairman was **Mr. Ravi Goenka**, Chairman & Managing Director, Laxmi Organic Industries Ltd.



(L TO R) MR. AVINASH GOYAL, MR. S GANESAN, MR. RAVI GOENKA AND MR. JAYANT V. DHOBLEY AT THE SESSION.

Mr. Avinash Goyal, Sr. Partner, Mumbai, McKinsey & Company, **Mr. S Ganesan**, Vice President – Policy Affairs, UPL Ltd and **Mr. Jayant V. Dhobley**, Business Head and CEO - Global Chemicals, Fashion Yarn & Insulators, Aditya Birla Group were the speakers in this session.

Talking about the subject on “From Mission to Reality - How Can Indian Chemicals Make 1 Tn Happen?”

Mr. Avinash Goyal, said, “India’s chemical industry has been a global out performer in shareholder wealth creation over the last decade. By 2040, India is poised to capture 10-12% share of global chemical consumption and become a \$850-1000 Bn market. However, India’s chemical industry is expected to have a trade deficit of \$40-42 Bn by 2040; Specialty Chemicals has the potential to contribute ~\$20 Bn to net exports. India’s chemical production needs to grow at 10%+ CAGR to meet the rising domestic demand and bridge the trade deficit.”

Mr. S Ganesan discussed about the “Volatility For The World, Opportunity For India: Chemical & Industry Under Transition.” “There is positive correlation between the negative perception about the chemicals and chemical consumption”, he said.

Focusing on the **Chemicals & Capital Markets: Searching the Way Back to The Winner’s Podium**, Mr. Jayant V. Dhobley said that ‘Globally, chemical industry has performed better than most of its manufacturing peers and in-line with the overall capital markets, whereas, Indian chemical industry has outperformed its global peers. Going forward, this growth will be further supported by schemes such as PLI and development of Industrial parks.’

SESSION – 3: PANEL DISCUSSION: ON “MISSION ATMANIRBHAR”

Mr. Deepak C. Mehta, Chairman & Managing Director, Deepak Nitrite Ltd. was the moderator for this session.

Mr. Kartik Bharat Ram, Addl. Vice President-ICC and Joint Managing Director, SRF Ltd; **Mr. U Shekhar**, Managing Director, Galaxy Surfactants Ltd; **Mr. Kaushal Soparkar**, Managing Director, Meghmani Finechem Ltd; **Mr. Kapil Malhotra**, Global Business Unit Head-Fluoropolymers, Gujarat Fluorochemicals Ltd; and **Mr. Adhip Nath Palchaudhuri**, Director (Service Businesses), Balmer Lawrie & Co. Ltd. were the panelists.



(L TO R) MR. KARTIK BHARAT RAM, MR. U SHEKHAR, MR. ADHIP NATH PALCHAUDHURI, MR. DEEPAK C. MEHTA, MR. KAUSHAL SOPARKAR, AND MR. KAPIL MALHOTRA WERE PART OF THIS SESSION.

Mr. Deepak C. Mehta starting the discussion said that “Atmanirbharta for the chemical industry does not mean ‘Make in India’ for India, it goes much beyond where we are saying it is ‘Make in India’ not only for India but for the rest of the world.”

Mr. Kartik Bharat Ram was of the opinion that “We have been very fortunate with China plus one strategy that happened due to pollution norms that changed in China or supply chain constraints which allowed India to become potential large supplier to the western world, to the agencies. The western companies are demanding more suppliers than Indian companies. India need to be more demanding in the supplier front.”

Speaking about the investments, Mr. U Shekhar of Galaxy Surfactants Ltd said, “We are investing continuously in terms of increasing our capacities of existing products and putting up plants in terms of innovations. These innovations are driven by consumer trends as well as specific customer requirements. The investment should also be on sustainability as consumer seek sustainability from us. We also need to invest on our people, as building people or man force helps in the long run.”

Mr. Kaushal Soparkar opined, “We are getting support from government and neighboring industries as government is focusing more on manufacturing sector and we have completed expansion in chlor-alkali field and we have done downstream in hydrogen peroxide and chloromethane.

We are focusing more on natural sources. We have more of the expansion plans and we expect to complete that by next year and we are focusing on R&D facilities as well."

Talking about the growth, Mr. Kapil Malhotra of Gujarat Fluorochemicals said - "From 2007, the seeds of Atmanirbhar Bharat started from there itself. We identified those products, which were not manufactured in India. But there were some companies who manufactured this products. During our journey, we added more products which are used in automobile industry, the products we manufacture are hardly produced in India."

On the logistics front, Mr. Adhip Nath Palchaudhuri of Balmer Lawrie & Co. Ltd. said, "We have multi-model logistics parks in collaboration with Visag Port Authority, we have warehouses, we are also taking projects in steel sector. Chemicals, fertilizers and aluminium have been listed down and once we gain success, we will look into it."

SESSION – 4: PANEL DISCUSSION ON "BEYOND BORDERS"

A Panel discussion on 'Beyond Borders' was conducted under the chairmanship of **Mr. Namitesh Roychoudhary**, Vice Chairman & Managing Director, Lanxess India Pvt. Ltd.

Mr. Vinod Paremal, President & Managing Director - India Region, Evonik India Pvt. Ltd; **Mr. Janardhanan Ramanujalu**, Chairman, Sabc India; **Dr. Achala Danait**, Managing Director, Clariant India Ltd; **Mr. S Ganesan**, Vice President – Policy Affairs, UPL Ltd were the speakers at this session.



(L-R) **MR. VINOD PAREMAL**, **MR. JANARDHANAN RAMANUJALU**, **MR. NAMITESH ROYCHOUHDARY**, **DR. ACHALA DANAIT**, AND **MR. S GANESAN** DURING THE SESSION

Mr. Janardhanan Ramanujalu of Sabc India said, "We need to see where we are good at like in pharma, and other sectors. We need to start to think of research as an investment at a globally competitive levels and then have a globally management skill as we all know that running a global company is complex. We need a global outlook in trade it's not just the export of products".

Explaining about the ecosystem, Dr. Achala Danait said that "Start looking at innovation as a value and not as a cost. So in what scale we can do differentiation and dominance is a big word. We need to pick up the niches, if we don't innovate there, then it will be very difficult to really survive."

We also need to think in retrospection that whether we celebrate innovations in our organisations. Developing ecosystem starts with celebrating innovations", she said.

Talking about Safety and Sustainability, Mr. Vinod Paremal expressed that "We have to make the outsiders understand about the Indian Chemical industry like how it was a decade ago and how it is now; we can see a difference in safety part too. A lot of changes can be done further. The government needs to look at the efforts entrepreneurs are making. Indian chemical industry is mainly by private entrepreneurs. Talking about sustainability Mr. Paremal said that - as a net energy importer, in Germany, we see the challenges, there is an opportunity in India, to switch to renewals. Private sector can be given lot more support."

Mr. S Ganesan of UPL Ltd said, "Global agrochemical industry is about 72 billion dollars. The real competency comes in marketing. The demand has to come from the grass level. We have skills to utilise it on sustained growth."

SESSION – 5: INSPIRATION FROM PARALLELS - LEVERAGING LEARNINGS FROM ALIKE GROWTH JOURNEYS

This Session was conducted by **Mr. Rajen Mariwala**, Vice President - ICC & CEO, Eternis Fine Chemicals Ltd.

Dr. Marco Moder, Partner, Seoul, McKinsey & Company, **Mr. Alexander Gerding**, Managing Director, BASF India Ltd., **Mr. Chandrakant Nayak**, Country President & CEO, Dow India and **Mr. Ravi Kapoor**, Chairman & Managing Director, Heubach Colour Pvt. Ltd. were the speakers of this session.



(L-R) **DR. MARCO MODER**, **MR. CHANDRAKANT NAYAK**, **MR. RAJEN MARIWALA**, **MR. ALEXANDER GERDING** AND **MR. RAVI KAPOOR** WERE PART OF THIS SESSION.

Talking on the theme 'Learnings from North-East Asia: Rejuvenating Indian chemicals with international collaboration', Dr. Marco Moder said that "As compared to global peers, chemical companies in North-East Asia maintain low level of diversity in their portfolio. Average specialty chemicals share for the Korean and Japanese players in the Global Top 20 are 46% and 47%, compared to 70% for other global players. Sumitomo Chemical gained 'early leadership' in specialty chemicals by structurally diversifying beyond basic chemicals. Multiple Japanese chemical companies have initiated structured business segmentation to demonstrate 'pure-play.' Players in

North-East Asia are betting heavily in sustainability-driven segments like battery chemicals, hydrogen materials etc."

Mr. Ravi Kapoor in his address mentioned that "SMEs constitute 96% of European chemical companies. SMEs are present at every level of a chemical supply chain. SMEs employ two thirds of the EU's workforce and account for 55% of added value in the EU." He explained about the European chemical sector and said that it is the 4th largest manufacturing producer in Europe. Europe is the second largest producer of chemicals in the world with sales of around €600bn.

Mr. Alexander Gerding spoke on 'Building Resilience in the Chemical Industry through Sustainability.' He said that rapid urbanization, younger demography and rising incomes enable consumer shifts into new category spending including premium options. He further added that "We have built an industry-leading approach enabling us to provide product carbon footprints calculated with a certified digital solution."

Mr. Chandrakant Nayak, Country President & CEO, Dow India elaborated on chemical transformation in 2023. He said, "G20 contributes to 85% of world's GDP and almost 75% of world trade. This is an excellent forum for us to represent what India brings and how US companies can benefit from India. The focus area of G-20 is employment, climate sustainability, energy transition, trade and investments."

SESSION – 6: INTEGRATING RESILIENCE IN SPEC CHEM GROWTH

Giving a detailed idea on 'Navigating Margin Pressures In Volatile Scenarios', **Mr. Radhesh R. Welling, Managing Director, Navin Fluorine International Ltd.** said that drivers of volatility are cheap capital which led to number of black swan events, we are constantly in environment of demand/supply shocks. We suddenly see a sharp escalation in demand leading to shortage of supply and demand going down which is leading to logistical uncertainty, leading to destocking – restocking shocks and it leads to extreme volatility.



MR. RADHESH R. WELLING MAKING HIS PRESENTATION

SESSION – 7: PANEL DISCUSSION: FEEDSTOCK STRATEGY FOR SUSTAINABLE GROWTH

A Panel Discussion was conducted on 'Feedstock Strategy for Sustainable Growth' which was moderated by **Mr. Sridhar Venkiteswaran**, CEO, Avalon Consulting.

Mr. Arvindar Singh Sahney, Executive Director – Petrochemicals, Indian Oil Corporation Limited; **Mr. Chandan Sengupta**, Senior Advisor-Marketing & Commodity Business, Haldia Petrochemicals Ltd; and **Mr. B Vivek Shetty**, Chairman, Viswaat Chemicals Ltd. were the speakers of this session.



(L TO R) MR. ARVINDAR SINGH SAHNEY, MR. SRIDHAR VENKITESWARAN, MR. CHANDAN SENGUPTA AND MR. B VIVEK SHETTY TOOK PART IN THE SESSION.

Mr. Arvindar Singh Sahney said that "While we go on feeding the nation, the growth rate which was there 8 percent or 9 percent and when it comes down, we have to deal with it. We have 22 refineries now the major players are already into PVC. We are not competing with anybody right now."

Mr. Chandan Sengupta, in his address said - "Feedstock, would depend on particular industry about what it can be. We are exporting 90% of benzene. We need money to put up a cracker plant and no businessman will be ready to invest unless there is something on thread levels. We are far below the international thread levels for any industry to come in and put up a cracker."

Mr. B Vivek Shetty of Viswaat Chemicals Ltd said – "In India, chemical industry has been divided into 3 to 4 areas such as international companies, Indian multi-national companies, Indian large companies and Indian MSMEs. The raw material costs were fluctuating in 2022. So, we did make some losses. We don't have ready stock here. Still there is a great opportunity to change the dynamics."

SESSION – 8: PANEL DISCUSSION ON EMBRACING PEOPLE TRANSFORMATION & POWERING INNOVATION

Another Panel Discussion on 'Embracing People Transformation & Powering Innovation' was moderated by **Ms Nitika Nathani**, Partner, McKinsey & Company.

Mr. Samir Somaiya, Chairman & Managing Director, Godavari Biorefineries Ltd.; **Mr. Prakash Raman**, Managing Director, Silox India Pvt. Ltd; **Mr. Ajay Shah**, President – Polymers, Elastomers & Cracker, Reliance Industries Ltd; **Mr. Anand Srinivasan**, Managing Director & Head of Engineering Plastics ISC, Covestro (India) Pvt. Ltd; **Mr. Vikram Singhal**, President, Culbrandsen Technologies, Inc. were part of this session.



(L-R) MR. PRAKASH RAMAN, MR. ANAND SRINIVASAN, MR. SAMIR SOMAIYA, MR. AJAY SHAH, MS NITIKA NATHANI AND MR. VIKRAM SINGHAL WERE THE SPEAKERS OF THIS SESSION.

Mr. Samir Somaiya, Chairman & Managing Director, Godavari Biorefineries Ltd said, "On education point of view, there are tremendous talent and we just need to have a better bridge between education and industry. We need to create better bridges to tap the potential".

Mr. Prakash Raman, opined that "there are certain limitations because of some fundamental issues in terms of attracting the best talent coming into the chemical industry, due to the image associated with the chemical industry. In terms of R & D and innovation, the fundamental R & D is way below the benchmark on global standards. Some of them are spending high on this and some are spending less. We need to address these problems".

Explaining on the role of R & D, Mr. Ajay Shah said that the young generation does not feel like to work in this industry in general. We need to create a positive image and publicize ourselves. The basic fundamental knowledge or education with the people is there, but it's about how we are going to attract the knowledge in to the chemical space is the biggest challenge.

While expressing his viewpoints on strengthening academic and industry collaboration, Mr. Anand Srinivasan said – "we have to do something in small spaces, pushing academia wherein they come and experience about what the industry is and that could be the starting point for tapping the resources".

Speaking on upskill for future, Mr. Vikram Singhal, said "some people still think that chemical industry is not a preferred space to work for. We have decided to take freshers, so we train them in all levels. Practical knowledge is not readily available with freshers. Many students do not have the thought process, maybe because in India we follow the curriculum more rather than motivating them for free thinking to inculcate innovative processes."

SESSION-9: START-UP BOOT-CAMP

A session on 'Disruption in the Space: Elevator Pitch by Start-Up Founders was conducted by **Ms. Rupali Jain**, Partner, McKinsey & Company.

Mr. Karthikeyan KS, CEO, Proklean Technologies Pvt. Ltd; **Mr. Ashish Kulkarni**, Chairman, Board of Directors, Kebotix; **Mr. Kunal Godambe**, Founder, GreenShift Energy Pvt. Ltd. (Incubated at S.M. Mokashi Incubator at ICT); **Dr. Saugandha Das**, Director and Co-founder, Edhaa Innovations Private Limited (Incubated at SINE, IIT Bombay); **Mr. Punit Krishna**, CEO, Chemarc were the start-up founders speaking in this session.



(L-R) MR. KARTHIKEYAN KS, MR. ASHISH KULKARNI, MR. KUNAL GODAMBE, MS RUPALI JAIN, DR SAUGANDHA DAS, AND MR. PUNIT KRISHNA DURING THE SESSION.

Mr. Ashish Kulkarni spoke on AI / ML / Quantum tools for R&D Transformation for Chemicals. He said industry is optimized for cost (asset optimization) and performance (new markets) and not for sustainability & Speed. The industry needs an alternative model to add sustainability to 100,000+ molecules and 15,000+ applications to feed the \$ 4-5 Trillion Industry.

Mr. Punit Krishna, CEO expressed that "We are a digital platform for chemical companies to conduct business online with efficiency and transparency and convenience like never before to reduce costs, improve profit and create great value."

"Our startup is into waste management. Every waste needs different solution and value addition hence innovation and R&D is the need of the hour. We are focused on chemical based waste techniques which are sustainable from the environment point of view and business point of view." said Mr. Kunal Godambe, Founder, GreenShift Energy Pvt. Ltd. (Incubated at S.M.Mokashi Incubator at ICT).

Dr. Saugandha Das, Director and Co-founder, Edhaa Innovations Private Limited (Incubated at SINE, IIT Bombay) said, "More than 70% of medical decisions are made on diagnostic findings and we have ample proof on the same during the Covid. We are bringing lab to the patient. It would be economical and affordable and the devices we make are portable which can be carried on field."

SESSION – 10: CRITICALITY OF BIO-DIVERSITY & ENVIRONMENT CONSERVATION: IT'S NOW OR NEVER!

A Session on 'Biodiversity Conservation and Climate Action' was presented by **Dr. Erach Bharucha**, Director, Bharati Vidyapeeth University Inst. of Environment Education and Research.



DR ERACH BHARUCHA ADDRESSED THE DELEGATES.

"India has only 2.5% of the world's land mass, but accounts for 7-8% of the earth's known floral and faunal species. This makes India a mega diversity nation. India's hotspots are in the Northeast and Himalayas, Western Ghats and Andaman & Nicobar islands. In the last two decades, several species have suffered a steep decline in their abundance." said Dr Bharucha.

DAY TWO:

OPENING REMARKS

The day two of 'The Sixteenth Annual India Chemical Industry Outlook Conference & Exhibition' started with the opening remarks which was given by Mr. Susanta Kumar Purohit, Joint Secretary, Department of Chemicals & Petrochemicals, Government of India who was also the Guest of Honour for the day two of the conference. He said, "Chemical industry is a significant contributor to the manufacturing sector and economic growth of India."

Pointing out the global chemical sales, Mr. Purohit said that India contributes to ~3% of the global chemical sales. India ranks 6th in the World and 4th in Asia for Chemicals sales. India is the 2nd largest manufacturer and exporter of dyes. India is the 3rd largest consumer of polymers globally and the 4th largest producer of agrochemicals globally.

"The Supply demand gap in petrochemicals and intermediate chemicals provides for attractive business opportunities." said Mr. Purohit.

Highlighting about the future demand in major petrochemicals - robust growth, Mr. Purohit said, "In 2020, the demand of top 52 major petrochemicals products is estimated at 26 MMTA. The demand of these top 52 major petrochemicals products will increase to 87 MMTA by 2040."

Adding about the investment opportunity, he said that the additional demand of 60 MMTA by 2040 would call for huge capital investment, of the order of about Rs. 18,00,000 crores. Presently around Rs. 6,00,000 crore investments are in the pipeline. However, additional Rs. 12,00,000 Crore investment is needed for country sustainable development of petrochemicals.

Explaining about the Quality Control orders, he said, "So far 61 BIS Standards Chemicals and Petrochemicals have been notified by Quality Control Orders. There are about 11,000 chemicals to be brought under QCOs. The Department is working for QCO for chemicals covered in International Conventions (135), Manufacturers, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 (684), List provided by D/o Consumer Affairs (93) in the first phase. BIS standards are not available at present for majority of chemicals."

"To expedite the notification of QCO- Where no relevant standard of any chemicals has been laid down by BIS, such chemicals if conformed to standards laid down the international organisation for standardisation (ISO), or any other internationally recognised body like ASTM/CIPAC/pharmacopoeial etc. may be accepted by BIS on "as such basis." added Mr. Purohit.

Explaining about the Centre of Excellence, Mr. Purohit said, "Department intends to establish a Centre of Excellence (CoE) preferably at institute of eminence. The CoE will provide support to industry and it will act as an interface between industry and academia. CoE will also provide the technical inputs to the Department on Policy matters and CoEs will also suggest the planning of infrastructure and skill requirements for the sector based on future growth of the sector."

Mr. Purohit elaborated about the 'Chintan Shivar' initiative. He quoted by saying, 'Chintan Shivar' is a unique initiative wherein Government, Industry, and Associations will together have the detailed deliberation on focused themes.



MR. SUSANTA KUMAR PUROHIT GIVING THE OPENING REMARKS ON DAY TWO OF THE CONFERENCE.

AWARDING OF RESPONSIBLE CARE (RC) LOGOS:

RC LOGO was awarded to the following companies by Mr. Susanta Kumar Purohit, Joint Secretary, Department of Chemicals & Petrochemicals, Government of India.

1. DCM SHRIRAM



2. GUJARAT STATE FERTILIZERS & CHEMICALS LIMITED



3. GULBRANDSEN TECHNOLOGIES



4. HIKAL LIMITED



5. LAXMI ORGANIC INDUSTRIES LIMITED



LAUNCH OF NICER GLOBE'S E-CATALOGUE:



THE LAUNCH OF NICER GLOBE'S E-CATALOGUE WAS DONE BY MR. SUSANTA KUMAR PUROHIT AMONG OTHER MEMBERS IN THE DAIS.

TECHNICAL SESSIONS

SESSION - 1: BUILDING ADHERENCE TOWARDS SAFETY & SUSTAINABILITY

The First Technical Session on Day two was focused on 'Building Adherence towards Safety & Sustainability.'

The Session was conducted by **Mr. Ravi Kapoor**, Chairman & Managing Director, Heubach Colour Pvt. Ltd.



(L-R) DR ING. RAOUL MEYS, MR. BALA RAMANI, MR. RAVI KAPOOR AND MR. SURESH RAMACHANDRAN DURING THE SESSION.

Dr Ing. Raoul Meys, Managing Director, Carbon Minds & Mr. Bala Ramani, Director of Sustainability Consulting, ICIS spoke on Carbon Neutrality Assessment: Future Roadmap for Chemical Industry.

Mr. Bala Ramani, Director of Sustainability Consulting, ICIS started his presentation by saying 'Demand for plastics grows faster than for any other bulk materials - increase of 73% since 1990.' He said that plastics are a market of the future, especially for lower income countries a growth rate of 1-2% per year is expected.

"Linear chemical and plastic industry is optimizing existing fossil supply chain, while circular chemical and plastic industry is net-zero plastics as per IPCC report," said Dr Ing. Raoul Meys, Managing Director, Carbon Minds.

He said, "Long-term net-zero chemicals can only be achieved with a joint application of recycling, biomass utilization and CCU."

Mr. Suresh Ramachandran, Country Head & Managing Director, Arkema India spoke on "Chemical Safety – A Cost or Investment? Ushering In Global Best Practices". He said, "Time spent on implementing/maintaining HSE programs is a fraction of the time and money spent to investigate and correct an accident."

Highlighting more on safety, he said, "Implementing discipline on safety (which is a universal easy to understand topic) benefits all other manufacturing fields (quality, reliability, maintenance efficiency) and at the end of the day brings more money to the company. It is also about taking care of the safety of employees which is a motivational tool. It is also about conducting an HSE review on a new project avoids wasting time and effort in re-engineering."

SESSION- 2: UNLEASHING THE WAVE OF GROWTH ACROSS CHEMICAL VERTICALS: THE SECTORAL STANDPOINT

A Session on 'Unleashing the Wave of Growth across Chemical Verticals: The Sectoral Standpoint' was chaired by **Mr. Ashwin C Shroff**, Chairman, Excel Industries Ltd.

Mr. Haresh Kumar, Head Operations – India, Re Sustainability, Reldan Refining Pvt Ltd. elaborated his viewpoints on 'Precious Metal Recovery from Catalysts and Electronic Waste: How Can the Chemical Industry Play Its Role.'

Talking about catalysts, he said, "Catalysts can be categorized as homogeneous, heterogeneous. Homogeneous catalysts exist in the same phase as the reactants, whereas heterogeneous catalysts exist in a different phase than the reactants."

"Recycling technology has to break down modern complex chemical technology to recover the Precious Metals," he said.

Mr. Pinak Dattaray, Founder, Ripik.AI, spoke on 'Leveraging Technology to Achieve Global Competitiveness.' He said that Indian companies are significantly outperforming global peers in terms of operational KPIs by leveraging technology.



(L-R) **MR. HAARESH KUMAR, MR. PINAK DATTARAY, MR. ASHWIN C SHROFF AND MR. DEBASHISH NANDA** DURING THEIR SESSION.

Mr. Debashish Nanda, Director BD, Coal India Ltd said, "Coal can be a potential source for substituting imports. Evaluation of Chinese Coal to chemical sector has lot of Takeaways for India."

SESSION- 3: EXCLUSIVE CHAT: THINKING BACK & LOOKING AHEAD

The Session 3 was an Exclusive Chat with **Mr. Nadir Godrej**, Chairman & Managing Director, Godrej Industries Ltd. and **Mr. R. Mukundan**, Managing Director & CEO, Tata Chemicals Ltd. by **Mr. Avinash Goyal**, Sr. Partner, Mumbai, McKinsey & Company.

The topic of discussion was 'Talking through the Growth Trajectory and the Underlying Journey.'

Mr. Nadir Godrej, Chairman & Managing Director, Godrej Industries Ltd. recited a beautiful poem on 'Turnaround by Valia' and 'Sustainability.' Both these poems are exclusively published in the issue of 'CHEMICAL NEWS'.

Mr. R. Mukundan, Managing Director & CEO, Tata Chemicals Ltd. said, "Netherlands is the largest exporter of food products, while Israel is the largest exporter of fruits and vegetables with desert land like the size of Meghalaya. The whole process is controlled in the desert, with less resources. Like lithium, it has the whole chain of energy storage, and it can open a series of chemicals for us. There are issues which we need to solve. We need to think as an ecosystem."



(L-R) **MR. AVINASH GOYAL, MR. NADIR GODREJ AND MR. R. MUKUNDAN** AFTER THE SESSION.

SESSION-4: CRITICAL ROLE OF SUPPORTING ENABLERS IN UNLOCKING VALUE

A Session on 'Critical Role of Supporting Enablers in Unlocking Value' was conducted by **Mr. Samir Somaiya**, Chairman & Managing Director, Godavari Biorefineries Ltd.



(L-R) MR. LUC ARNOUITS, MR. SAMIR SOMAIYA AND MR. VIVEK GADRE AFTER THEIR SESSION.

Explaining about the Value Creating Partnerships through Chemical Clusters: Mr. Luc Arnouts, Vice President, International Relations & Networks, Port of Antwerp-Bruges, said, "Tank terminal and pipeline network is scaling up the hydrogen carrier capacity. Extensive pipeline network for different products. Interconnected open-access hydrogen backbone to be operational from 2026 onwards."

He added, "They are top-of-class network of major tank storage and handling providers. With existing ammonia and methanol capacity to be expanded and supplemented with other hydrogen carriers. (Terminal Analysis ongoing)."

"China's share in global production up from 25.8% in 2010 to 43% in 2021. India's share increased marginally from 2.2% to 2.6% in the same period. India ranked 6th in global production and 5th in consumption. India is the largest net importer of chemicals in the world," said Mr. Vivek Gadre, President – Corporate Strategy, Atul Ltd.

Highlighting about the duty drawback scheme, he said, "In an economy like India, local price of raw material is based on import parity price for many chemicals. The local price is already inclusive of import duty, but this is not considered while fixing the drawback rates. As a result of this exclusion, importers find that duty savings under advance authorization is higher than the drawback amount."

SESSION – 5: PANEL DISCUSSION: EMBEDDING ENTERPRISE WITHIN INDIAN CHEMICALS

Mr. Alok Sharman, Regional Director – South Asia & Managing Director – India, Brenntag Ingredients India Pvt Ltd. was the moderator of this session.

Mr. M. Ponnuswami, Chairman & Managing Director, Pon Pure Chemicals India Pvt Ltd; said, "There were less import of chemicals earlier, many manufacturer are based in western India. The customer expectation was different. There was a monopoly. Then, there were lot of changes in the industry like investments and so on."

Mr. Robert Styut, Secretary General, ICTA; "ICTA is basically association of distributors. We have direct members and we have bigger companies who are part of the board. We consist of working committee on safety, security, health. We are developing and focused on responsible care and distribution. The message is we have MoU with ICC. We are here to bring best practices."

Mr. Taketo Kimura, General Manager, Mitsui & Co India P. Ltd. Said, "We started bringing products from overseas. We have a storage tank in India. There were so many challenges. We were handling 20 percent of import volume. We had a smooth entry, we overcame the difficult time together. We were lucky to meet strong visionary customers to grow together. We like to explore something new."



(L-R) MR. ALOK SHARMAN, MR. ROBERT STYUT, MR. M. PONNUSWAMI AND MR. TAKETO KIMURA AFTER THE PANEL DISCUSSION.

SESSION- 6: BUILDING THE INDUSTRY THINK-TANK: WHAT'S THE LATEST DEVELOPMENT?

A Session on 'Building The Industry Think-Tank: What's the Latest Development?' was chaired by Mr. S. R .Deo, Managing Director, NOCIL Ltd.

Dr. Aniruddha B. Pandit, Vice Chancellor, ICT Mumbai said that it is necessary for us to have the innovations which can be generic in nature. The end effects or social implications can be the same. This innovations can have social and economical value. We have to make something meaningful out of the innovations which will lead into progressive way.

"Shale Crescent USA is projected to produce 45% of all U.S. Natural Gas by 2040," said Mr. Nathan Lord, President, Shale Crescent, USA.

Mr. Lord said, "If Shale Crescent USA were a country it would be 3rd largest producer of natural gas in the world."



(L-R) MR S. R. DEO, DR. ANIRUDDHA B. PANDIT AND MR NATHAN LORD DURING THEIR SESSION.

SESSION – 7: PANEL DISCUSSION: LEADERSHIP RE-VISITED

The moderator for this session was Mr. Dinesh Mirchandani, Managing Partner, Boyden Global Executive Search.

Ms Nita Keswani, Partner, Boyden Global Executive explained about company majority ownership, sales revenue, products, markets, industry issues in short term and so on.

"Catalyst doesn't act in isolation. Catalyst enable reaction are fundamental to our business. We work, interact, construct something new and it goes on. Everybody come in the organisation with the creative thinking and great thinking with wanting to do best. Safety is very important in our industry," said Mr. Jayant Dhobley, Business Head and CEO – Global Chemicals, Fashion Yarn & Insulators, Aditya Birla Group.

Mr. Chandrakant Nayak, CEO, Dow India said, "A catalyst has to trigger some action. Leader's role is to make his or her role redundant. The organization has to learn how to grab that change management, or operate without leader being in place."

Talking about the bridges, Mr. Sanjeev Kaul, Chairman & Managing Director, Lubrizol India Pvt. Ltd. said it has evolved in the time. Bridges role has become critical. It is not core to the manufacturing. World is dynamic and we have to take advantages of those things.

Mr. Suresh Ramachandran, Country Head & Managing Director, Arkema India said, "Architects are shape designers, no matter whatever the space is. They are innovative designers. It's completely changed in the past years. Leader shape the idea, thoughts in abstract space. Leader work on space and lead the team."



(L-R) MS. NITA KESWANI, MR. CHANDRAKANT NAYAK, MR. DINESH MIRCHANDANI, MR. SANJEEV KAUL, MR. SURESH RAMACHANDRAN AND MR. JAYANT DHOBLEY WERE PART OF THIS PANEL DISCUSSION.

SESSION – 8: KEY ENABLERS TO PROPEL GROWTH: INFRASTRUCTURE & REGULATION

The Session Chairman for the topic 'Key Enablers To Propel Growth: Infrastructure & Regulation' was taken up by Dr. Prakash Trivedi, Chief Advisor – High Performance Polymers, Gharda Chemicals Ltd.

Dr Jayachandran Nair said, "The Standardization Administration of China published GB 15603 - 2022 (General Rules on Hazardous Chemical Storage) and this will come into force on 1 July 2023."



(L-R) DR. PRAKASH TRIVEDI AND DR. JAYACHANDRAN NAIR DURING THE PANEL DISCUSSION.

Concluding Remarks:

Dr. Prakash Trivedi, Chief Advisor – High Performance Polymers, Gharda Chemicals Ltd. gave the concluding remarks for the two-day conference.

To conclude the two-day event, Mr. D Sothi Selvam, Director General, ICC extended thanks to all.

CEO ROUNDTABLE CONFERENCE

An exclusive CEO RoundTable was organised in the evening on 1st March 2023 during "The Sixteenth Annual India Chemical Industry Outlook Conference & Exhibition"

and was attended by nearly 100 CEOs who deliberated on the path forward towards achieving the USD 1 Trillion in 2040, by the Indian Chemical Industry and the resilience required for the chemical industry to thrive under macroeconomic uncertainties.



NG LOGNEXT- Edition II

REAFFIRMS ICC'S COMMITMENT TO "STRIVING EXCELLENCE & BUILDING RESILIENCE IN CHEMICAL LOGISTICS"

ICC's initiative, 'Nicer Globe' had conducted their 2nd Annual Logistics event "NG-LOG NEXT" on 13th July 2023 at The Lalit, Mumbai. The event was attended by international experts, business leaders, and government officials.

Chemical transportation involves the movement of hazardous and potentially dangerous substances, which requires careful planning and execution to ensure safety, regulatory compliance, and environmental protection. ICC's initiative for the Chemical Transportation is "NICER GLOBE", an off- shoot of the Responsible Care program, where Chemical companies, Logistic Service Providers, Disaster Management Authorities and Emergency Responders are brought together for safe transportation of hazardous chemicals and improving capabilities for emergency response.

It is needless to highlight that Safety in chemical logistics is closely aligned with the principles of Responsible Care®, the global initiative within the chemical industry that promotes the safe and sustainable management of chemicals throughout their life cycle. Responsible Care encompasses a range of safety, health, and environmental practices to ensure the responsible handling, transportation, and storage of chemicals. Readers are

aware that Indian Chemical Council (ICC), the full member of International Chemical Associations (ICCA) is the nodal agency in India for the Responsible care program. ICC is fully committed to Chemical safety which is an ongoing process that requires a proactive and vigilant approach.

By integrating the principles of Responsible Care into chemical logistics operations, companies can demonstrate their commitment to safety, environmental stewardship, and sustainable practices. It not only helps protect employees, communities, and the environment but also enhances the reputation and credibility of the chemical industry as a whole.

"Nicer Globe" ensures Compliance with Regulations, Risk Assessment, Proper Handling and Storage, Transportation Safety, Emergency Preparedness, Training and Education, Documentation and Record-Keeping, Continuous Improvement, Collaboration and Communication.



MS. SUMITA DAWRA I.A.S., SPECIAL SECRETARY – LOGISTICS, DEPARTMENT FOR PROMOTION OF INDUSTRY AND INTERNAL TRADE (DPIIT), MINISTRY OF COMMERCE AND INDUSTRY, GOVERNMENT OF INDIA WAS THE CHIEF GUEST.





While speaking in the event, Mr. Bimal Goculdas, President, ICC and Managing Director & CEO, DMCC Speciality Chemicals Limited, said that "NICER GLOBE is not a support system, but an enabler to build sustainable processes and practices within the chemical industry, which is critical for the nature of business and operations."

The conference had covered a wide range of subjects on Safety in Chemical Transport operations, Guidelines on the Transportation of Dangerous Goods, Security Vulnerabilities, Challenges and Concerns during Transportation of Chemicals.

OTHER IMPORTANT ACTIVITIES

SEPTEMBER 2022:

MEETING OF INDUSTRY FACILITATION CELL

A meeting of Industry Facilitation Cell of the Department of Chemicals and Petrochemicals took place on 15th September 2022. It was chaired by Mr. S K Purohit, Joint Secretary (chemicals) who participated along with various technical officials. It was joined by the industry associations such as Indian Chemical Council, CPMA, AIPMA, ACFI, AIMA, Indian Surfactant group etc. From ICC, there was participation by GPC/ UPL/ DOW/ KLJ /Sanmar/ besides ICC NR. It was informed by Mr. S K Purohit that all issues raised by industry will be promptly taken up with concerned ministries. ICC through GPC flagged the need for GHS for facilitating the trade as per globally accepted systems. Given the fact that Prime Minister has released National Logistics policy, this issue assumes importance and will be followed up as almost all advanced countries have implemented GHS.

INDIA BROMINE PLATFORM'S 3RD EXECUTIVE COMMITTEE MEETING

India Bromine Platform's 3rd Executive Committee Meeting was held in Sep 2022 in Mumbai. Bromine is an essential chemical that finds use in a wide variety of applications ranging from fire safety, mercury emission control, energy storage, rubber, water treatment, pharmaceuticals and agriculture. BSEF

The International Bromine Council, headquartered in Belgium, promotes the benefits of bromine and bromine-based technologies for society and economy as well as commissioning science on bromine and bromine-based

solutions. In order to foster the bromine ecosystem in India, an India Bromine Platform (IBP) was conceptualized.

The India Bromine Platform (IBP) was formed with bromine producers and suppliers as its members, with the Indian Chemical Council (ICC), India's leading chemical industry body, playing the role of a catalyst and host to enhance collaboration of various stakeholders. In this effort Michael Hack (Secretary General) and Patrick Fox (Head of Public Affairs & Advocacy) took part in the meeting from Brussels. Senior Officials from ICC HQ, Mumbai had attended this meeting.

OCTOBER 2022:

PROGRAM ON "GLOBAL DEVELOPMENTS IN REACH-LIKE REGULATIONS – GROWING RESPONSIBILITY OF REGULATORY MANAGERS"

A program on Global Developments in REACH-like Regulations – Growing Responsibility of Regulatory Managers was conducted by Regulatory Representatives and Managers Association (an ICC member) on 12th October 2022 at India Habitat Centre, New Delhi. The program was supported by ICC. The inaugural address was delivered by Mr. Arun Baroka, I.A.S. then Secretary, Department of Chemicals and Petrochemicals who was the Chief Guest of the event.

There was a good response from the industry with a participation of around 200 delegates. The program focused on global regulatory developments in the chemical sector. Dr Vaibhav Diwan, Global Business Development Manager GPC (Europe) presented on the developments across various countries. Dr Vishal Choudhary, Industrial Advisor, Chemicals and Mr. Varun Singh Poonia, Industrial Advisor Petrochemicals in DCPC expressed the Government's perspective on the subject.

TRAINING PROGRAM FOR PLANT OPERATORS AT CHENNAI

A training program was conducted on 'Knowledge Management Program for Plant Operating Personnel' dated 28th October 2022 at SRF TRAINING HALL, MANALI, CHENNAI. Various subjects were covered for the plant engineers including Operation and Troubleshooting of Pumps, Operation and Troubleshooting of Distillation Columns.



WEBINAR ON "WHAT'S NEW IN ZEOLITE?"

ICC under the auspices of the Technology & Energy Expert Committee organized a Webinar on "What's new in Zeolite?" on 28th October 2022. The eminent speaker for the Webinar was Dr. Kshudiram Mantri, AVP (Group Lead) - Reliance Tech Group, Reliance Industries Ltd., Vadodara.

NOVEMBER 2022

SECOND EDITION OF THE BASIC COURSE ON "CHEMICAL LABORATORY SAFETY PRACTICES"

R&D Subcommittee under Technology & Energy Expert Committee of ICC organized The Second Edition of the Basic Course on "Chemical Laboratory Safety Practices" on 18th & 19th November 2022 virtually. This certification course was attended by 74 participants

SERIES OF WEBINARS ORGANISED BY T&E EXPERT COMMITTEE OF THE COUNCIL

The Eleventh Webinar in the T&E expert committee webinar series, on "Reactive Distillation" was taken up by Dr. Sanjay Mahajani, Professor, Chemical Engineering IIT - Bombay

DECEMBER 2022:

MEETING WITH ECONOMIC ADVISOR, MINISTRY OF CHEMICALS & FERTILIZERS

ICC NR had a meeting with Ms Divya Parmar, Economic Advisor, Ministry of Chemicals and Fertilisers on 5 December 2022. This was an introductory type of meeting during which the Economic Advisor, whose portfolio also includes chemicals and Petrochemicals, sought to understand the profile and issues of Indian Chemical industry.

CHEMICAL SUMMIT

On 9th December 2022, Indian Chemical Council along with FICCI, Manali Industries Association and Chemical Industries Association, conducted a one-day Chemical Summit on the theme "Contribution of Chemical Sector for USD 1 Trillion Economy of Tamil Nadu by 2030" at ITC Grand Chola, Guindy, Chennai.

Mr. S. KRISHNAN, I.A.S., Additional Chief Secretary, Industries Department, Government of Tamil Nadu, delivered the Key Note Address.

The summit focused on the Chemical Sector in Tamil Nadu which has the potential to grow from the current 6 billion US \$ to 70 billion US \$ by 2030 in order to significantly contribute to the vision of 1 trillion \$ Economy.

Mr. Vijay Sankar, Past President, ICC & Chairman, The Sanmar Group, Mr. Arvind Kumar, President MIA & MD, CPCL, Mr. M. Ponnuswami, CMD, Ponpure Group, Ms. Ramya Bharathram, Chairperson ICC Southern Region & MD & CFO, Thirumalai Chemicals Ltd, Mr. V C Asokan, Executive Director, IndianOil, TN & Pondy and Mr. S. Ilanahai, President CIA & MD Cetex Petrochemicals addressed the large gathering of CEOs and senior officials from the Chemical and Petrochemical Industry.

A Panel Discussion on facilities available for investors in Tamil Nadu was facilitated by Ms Pooja Kulkarni, IAS, Managing Director, Guidance Bureau, Tamil Nadu with Mr. Ramkumar Shankar, MD, Chemplast, Sanmar Ltd, Mr. C.G Sethuram, Group CEO, Thirumalai Chemicals, Mr. Rajeev Ailawadi, Director (F), CPCL, Mr. Ravi Shankar, GM-Strategic Planning, Haldia Petrochemicals Ltd as panelists.

Others who spoke on the occasion included Mr. Balaji Arun Kumar IRTS, Dy Chairman, Chennai Port Trust, Mr. Deepak Mahurkar, Partner, PwC India, Mr. Raman Jee Jha Director, PwC, Mr. Sanjay Kumar, GM, Kamarajar Port Ltd, Mr. H Shankar, Director (Technical), CPCL, Mr. J.Sivakumar, Chief Executive Officer, IndianOil LNG Pvt. Ltd, Mr. N. Krishnamoorthy, Dy. Managing Director (Commercial), Chemplast Sanmar Ltd and Mr. Naveen Kumar D, Associate Director - CARE Ratings Ltd.

The summit - a joint initiative of various Chemical associations with a common goal was a grand success.



TALK ON 'EASE OF DOING BUSINESS IN MAHARASHTRA – KEY RECOMMENDATIONS AND FUTURE OF COMPLIANCE'

ICC delegation attended a session organised by IMC Chamber of Commerce and Industry on 12 December 2022 regarding the Ease of Doing Business in Maharashtra.

MEETING FOR KNOWLEDGE DISSEMINATION ON PM GATI SHAKTI NATIONAL MASTER PLAN

ICC NRO took part in the meeting for Knowledge dissemination on PM Gati Shakti National Master Plan. The same was held on 23 December 2022. The same was followed in the presentation on evolving changes in Labour laws and ease of compliance burden.

SERIES OF WEBINARS ORGANISED BY T&E EXPERT COMMITTEE OF THE COUNCIL

Twelfth Webinar on "Process Intensification in Liquid – Liquid Extraction: LEM" was conducted by Prof. (Dr.) V. V. Mahajani, Emeritus Professor, Institute of Chemical Technology (ICT), Mumbai in December 2022

JANUARY 2023

PERSPECTIVE CHEMICAL VISION 2040

ICC had taken the lead in presenting the Perspective Chemical Vision 2040 to the Government of India with the objective of accelerating growth in the Indian Chemical sector.

The ICC delegation led by Mr. Bimal Goculdas, President, ICC along with Mr. Avinash Goyal, Senior Partner, McKinsey & Company had presented the "Perspective Chemical Vision 2040" on 5th January 2023 to Mr. Arun Baroka IAS, Secretary, Department of Chemicals and Petrochemicals, Government of India. Mr. Susanta Kumar Purohit, Joint Secretary – DCPC took part in the discussions. The plan document was prepared with the help of McKinsey & Company in consultation with various stakeholders and experts in the industry.

Mr. Kartik Bharatram, Jt. Managing Director, SRF Ltd and Rajendra Gogri, CMD, Aarti Industries Ltd along with ICC and McKinsey officials were a part of the delegation. The presentation focused on seeking support of the Government on the following key enablers to achieve our 2040 aspirations.

Mr. Baroka had spent considerable time with the ICC delegation in two separate sessions on the same day and assured full support of the Government on all the issues brought out.



REMOVING METHANOL FROM THE PURVIEW OF TAMIL NADU PROHIBITION ACT, 1937

A Group comprising of ICC, CIA, CII & MIA had an interaction with Mr. Mathivanan, IAS, Commissioner Prohibition & Excise Department, Govt of Tamil Nadu on 28th Dec 2022. Following the meeting it was decided to have a Core group comprising of P & E Officials and Industry to work on simplification of the licensing procedures and the conditions. The Core group comprising of key officials from Sanmar Group, Asian Paints and Thirumalai Chemicals met the Commissioner on 11th January 2023 and submitted a report on the information/inputs pertaining to the latest procedures available in other States including duration of licenses, conditions, transportation rules etc. for the reference of the Govt of Tamil Nadu.

3rd ANNUAL DISARMAMENT & INTERNATIONAL SECURITY AFFAIRS PROGRAM

Sushma Swaraj Institute of Foreign Service, Ministry of External Affairs in collaboration with Disarmament & Division of MEA conducted the Third Annual Disarmament & International Security Affairs Fellowship program at New Delhi. It may be noted that Indian Chemical Council on behalf of National Authority for Chemical weapons has hosted Help Desks to facilitate compliance to Chemical Weapons Convention, an international Treaty to which India is a party.

MEETING WITH MR. S K PUROHIT JT SECRETARY CHEMICALS

ICC NRO had a meeting with Mr. S K Purohit, Joint Secretary (Chemicals) on 17th January, 2023.

- It was informed that the Department of CPC has decided to have the Perspective Plan (Chemical Vision 2040) extended to 2047. ICC was requested accordingly to modify/ update its Perspective Chemical Vision 2040 submitted recently. The Department of CPC has similarly initiated action for preparing the

Petrochemicals Perspective Plan extended to 2047. Mr. Purohit informed that both the Chemicals and Petrochemicals Perspective plans will be merged and a presentation to Minister (C&AF) will be arranged.

- It was also informed by Mr. Purohit that the Department of CPC is working out a plan for setting up Chemical Parks in the states of Gujarat/ Maharashtra/ Rajasthan/ Orissa/ W Bengal/ Andhra Pradesh and Tamil Nadu. ICC has been advised to submit its inputs. It is requested that required inputs may please be furnished to enable us to submit to the Government.

MEETING WITH SH DEEPAK MISHRA, IFOS, JOINT SECRETARY PETROCHEMICALS

ICC NRO had a meeting with Mr. Deepak Mishra, IFOS, Joint Secretary- Petrochemicals, Ministry of Chemicals & Fertilizers, GoI on 17th January 2023. Various activities of Indian Chemical council were apprised. Mr. Mishra informed that he looks forward to closer co-operation with Indian Chemical Council for sustainable growth of Indian petrochemical industry.



REFRESHER COURSE ON "CHEMICAL ENGINEERING FOR PLANT PERSONNEL"

Under the auspices of Technology and Energy Expert Committee, ICC had organised the Two-day Refresher Course on "CHEMICAL ENGINEERING FOR PLANT PERSONNEL" on Friday, 20 January & Saturday, 21 January 2023 at IMC Chamber of Commerce and Industry, Mumbai. This course was attended by 64 professionals from various industries across the country.

WEBINAR ON 'IONIC LIQUIDS: INDUSTRIAL APPLICATION'

ICC under the auspices of the Technology & Energy Expert Committee organized a Webinar on 'Ionic Liquids: Industrial application' on 27 January 2023. The eminent speaker for this webinar was Dr. Bhalchandra Bhanage, Professor Chemical Engineering, ICT (Institute of Chemical Technology).

FEBRUARY 2023

SEMINAR ON "EVOLVING A SUSTAINABLE, HIGH GROWTH MODEL FOR THE TAMIL NADU CHEMICAL INDUSTRY"

The seminar was organized by Indian Chemical Council – Southern Region in association with FICCI, Chemical Industries Association, Manali Industries Association

on 09th February 2023 at Hotel Raintree, Chennai. The Objective & subject covered included:

1. Role of Chemical Sector to the 1 trillion Dollar Economy of Tamil Nadu (TN) by 2030.
2. Evolving a Sustainable, High Growth Model for the Tamil Nadu Chemical Industry"
3. Skill Development towards Sustainable Growth in Chemical Industry.



The Chief Guest for this event was Mr. S. Krishnan, IAS, Additional Chief Secretary, Department of Industries, Government of Tamil Nadu.

REDUCTION IN SPECIFIC WATER CONSUMPTION IN WATER INTENSIVE INDUSTRIES

A Webinar on 'REDUCTION IN SPECIFIC WATER CONSUMPTION IN WATER INTENSIVE INDUSTRIES' in association with IIT Madras and ICCW was conducted on 18 Feb 2023. The objective was to reduce specific water consumption (SWC) which is water consumed in m³ per unit of product produced or serviced through the implementation of 4Rs - Reduce, Reuse, Recycle and Recharge mechanisms.

EXPORT OF RAW MATERIALS USED IN PRODUCTION OF PHOSPHATIC FERTILIZERS- (CASE OF SULFURIC ACID) ADVISORY

Department of Fertilizers vide its letter No 15011/23/2022-P&K dated 5th May, 2022 issued an advisory to the Chemical industry that in view of the geopolitical situation, shortage of DAP in the country and rising international prices, all P&K manufacturers were advised to refrain from exporting any raw material, intermediates etc. used in production of Phosphatic Fertilizers so as to ensure availability of Fertilizers in the country.

Indian Chemical Council is fully supporting this initiative of the Department of Fertilizers and submitted that Sulphuric acid which is an input for making Phosphate fertilizers has enough installed capacity in the country to take care of the Phosphate industry besides that of other segments of industry and still have surplus for exports. A representation was made to the Govt, during the month and there has been extensive follow up meetings in both the Departments of Chemicals and Department of Fertilizers. (Had meetings with Mr. S K Purohit, Joint Secretary, Department of Chemicals & Petrochemicals on 5th December 2022 and Ms. Aparna Sharma, Joint Secretary Department of Fertilizers on 19 December 2022).

The issue has been finally resolved in a meeting with Ms. Neerja A, Additional Secretary, Department of Fertilizers on 22 February 2023.

CHEMICALS (MANAGEMENT & SAFETY) RULES

Chemicals (Management & Safety) Rules have been in the process of formulation in the DCPC. The issue was discussed with Mr. K K Srivastav, Director - Chemicals, Dr Vishal Choudhary, Dy Industrial Advisor - Chemicals in the Department of C&PC as also Mr. S K Purohit, Jt. Secretary, Department of Chemicals and Petrochemicals. The issue was dormant with no action for quite some time. It was given to understand that the forward movement of the issue is under active deliberation keeping in account all ramifications. The same was reiterated.

MARCH 2023

MEETING WITH DCPC OFFICIALS AT FICCI WITH REGARD TO MANDATE 76 QCOS

ICC- NR team had participated in the meeting held on 14 March 2023 under the Chairmanship of Secretary-

Chemicals & Petrochemicals to discuss on the Mandate 76 chemicals under QCO. ICC team including officials from UPL / BASF / Sabic / KLJ / Sanmar / DCM etc. (physical participation besides some virtually). ICC expressed the need for having Rational approach while deciding on quality control coverage. The team also shared and handed over a matrix to prioritize the chemicals for QCO implementation. (The same was prepared in association with Aarti Industries Ltd). The first priority as suggested pertains to those chemicals which are sufficiently produced in India but still imported.

EXTENSION OF GAZETTE NOTIFICATION

Gazette Notification for extension of enforcement date of Quality Control Orders (QCOs) for Polyurethane and Para xylene issued on 15.03.2023 - it may be noted that given the importance of these chemicals, ICC had taken an industry delegation on 22 February 2023 to explain the rationale of proposal.

MEETING WITH DGFT WITH REGARD TO INDO-KOREA (CEPA NEGOTIATION)

A Meeting convened by DGFT was conducted on 16th March to discuss about the Indo- Korea (CEPA Negotiation). During the meeting they requested for data and view of ICC on Caustic Soda. DGFT also mentioned that they are not receiving the timely input from the Industry. It was promised to them that ICC will provide appropriate inputs with regards to all chemical products.

MEETING WITH DR DEENBANDHU GOWDA

Dr Deenbandhu Gowda, Director HSMD, Central Pollution Control Board visited ICC NRO on 24th March 2023 and there was exchange of views on various ongoing issues especially developments in relation to POPs.

TRAINING SESSION ON MANAGING A MULTIGENERATION WORKFORCE

A training program on managing multi-generation workforce in Chemical Industry, was jointly organized by Chemical Industries Association, Chennai in co-ordination with Indian Chemical Council - SRO & Manali Industries Association on 22 March 2023

MoU WITH THE GOVERNMENT E-MARKETPLACE (GEM)

On 23rd March 2023, ICC had signed a MoU with The Government e Marketplace (GeM) an online portal for buying and selling various products including chemicals. Chemical Companies can enroll in GeM and can put forth the requirement of new category creation; suggest modifications in the technical particulars of the existing products, wherever required; request for redressal of the issues being faced by them in on boarding of the products, request for arranging training programs, webinars, workshop etc. on the latest functionalities of GeM. Chemical companies are encouraged to utilize the GeM portal.

ACTIVITIES OF R & D SUBCOMMITTEE

ICC under the auspices of R & D Subcommittee organized the Basic Course on Chemical Laboratory Safety Practices for Students of Somaiya College on 28th – 29th March 2023 at Aryabhata Building, Engineering College, KJSCE. It was a certification course which included demonstrations in lab and concluded with an assessment test.



MEETING WITH GEM (GOVT. E- MARKETPLACE FOR PROCUREMENT) OFFICIALS

ICC-NR team had attended the meeting with GEM officials wherein it was apprised that on GEM portal there are huge demand for chemicals but in large number of categories there are no sellers registered yet and hence GEM is in the process of signing an MoU with Indian Chemical Council to reach out the members of ICC, who accounts for 80% of Chemical production in India.

INTERACTION WITH DGFT FOR CERTIFICATE OF ORIGIN

ICC-NR had followed up with DGFT with regard to the onboarding and training of ICC officials on issuing Certificate of Origin, online. ICC-NR has submitted the requested documents. Now DGFT officials, after scrutiny of the documents will follow up with ICC – NR for fix up of dates for required training.

APRIL 2023

ONE-DAY REFRESHER COURSE ON "CHEMICAL ENGINEERING FOR PLANT PERSONNEL" AT ANKLESHWAR

A One-Day Refresher Course on 'Chemical Engineering for Plant Personnel' was conducted on 6th April 2023 at Ankleshwar. The speakers of this event were Mr. O. P. Goyal & Prof. Parag Gogate. While, the Chief Guest of the event was Mr. D. K. Rana, Director, Heubach Colour Pvt. Ltd. More than 70 delegates attended the course.



- Mr S, Ganesan, Chairman, Treaties Expert Committee, ICC participated in the meeting held under the Chairmanship of Shri Susanta Kumar Purohit, Joint Secretary (Chemicals) on 11th April 2023 regarding discussion on the agenda of the Stockholm and Rotterdam Convention for the Eleventh (11th) meeting of the Conference of the Parties (COP) in Geneva. It was a preparatory meeting ahead of COP, wherein the Department requested industry associations to share inputs. ICC has submitted the recommendations to the Department.
- Mr. Rajesh Kumar – Officer, ICC, NRO attended Indo-Russian Business Summit held in New Delhi on 5th April 2023. During the meeting discussions were held with Mr. Chetan Sangani – MD & CEO – Polyplast and Mr. Alesksey – CEO – Newton Additive Technologies and both the companies agreed to work with ICC. Recently, Polyplast has become ICC membership as well.
- Meeting with PESO (Petroleum and Explosives Safety Organisation) – ICC NRO met Mr Surendra Singh – Under Secretary – DPIIT (Explosive) and requested to include ICC in its stakeholder list, wherein they agreed and assured that they will include ICC in their stakeholder list.
- ICC NRO attended a meeting at MoEF & CC on 11th April 2023 for an Inter-ministerial meeting for the preparation of the fifth (5th) International Conference on Chemical Management (ICCM 5) and for the constitution of the Working group under the chairmanship of Shri Naresh Pal Gangwar, Additional Secretary, MoEFCC.
- The Ministry of Environment, Forest & Climate Change (MoEF&CC) had organized a meeting for stakeholder consultations to aid in preparing a common understanding of various Agenda items like compliance, effectiveness evaluation, the listing of chemicals, implementation and monitoring mechanism, technical and financial assistance, the election of officials in the three conventions, etc. for the meetings of the Conference of Parties (COP), Chemical Review Committee (CRC), and Persistent Organic Pollutants Review Committee (POPRC). In this regard, the first (1st) meeting of the 'Working Group' was convened at Sutlej Hall, Ground Floor, Jal Block, Indira Paryavaran Bhawan, Jorbagh Road, New Delhi on 06th April 2023 and was attended by Mr Ganesan S., Chairman (International Treaties Expert Committee, ICC), and Mr Dhruvil Soni, Officer – Sustainability, Environment, and Regulatory Issues, ICC NRO.
- ICC NRO has developed two proposals to Secretary (C&PC), Government of India for consideration. The proposals have been submitted to the Government.

- a. Proposal to consider Sustainability Conclave as Departmental Event of GoI.
 - b. Proposal seeking financial assistance to conduct Safety and Environment Training Programs for MSME units in Chemical Sector.
- A Meeting of SRO members was organized on 3rd April at Hyatt Regency Chennai. The meeting Chaired by Ms Ramya Bharatham, was well attended by members from both Chennai and Cuddalore Chemical Clusters. During the meeting, the activities of ICC and the future plans of ICC were briefed by the Director General. M/s Avalon made a presentation on the PLI for the Chemical sector which is expected to be announced soon.

THREE DAY WORK SHOP "KNOW-YOUR-CUSTOMER (KYC) TRANSACTION EVALUATION FOR SUSPICIOUS INDICATORS (TESI)"

ICC in association with Sandia National Laboratories, USA recently organised a three day work shop "Know-Your-Customer (KYC) Transaction Evaluation for Suspicious Indicators (TESI)" for Chemical Suppliers and Distributors" on 26th April to 28th April 2023.



The workshop was conducted by Dr. Cecelia V. Williams, Ph.D., Sandia National Laboratories (Global Chemical and Biological Security Group), Dr. Lyndsey Gray, Ph.D., Chemical Security Program, U.S. State Department. Dr. Maurice Payne (Mo), Ph.D., Technical Staff, Sandia National Laboratories (Global Chemical and Biological Security Group) and Ms. Marisa Rivera, Global Protocol, Sandia National Laboratories.

The workshop covered important topics such as Overview of Weaponizable Chemicals, Chemical Security Threats, Illicit Procurement Case Studies, Advanced KYC Principles and Practices, Interactive Scenario-Based Activities on KYC Indicators, Overview of TESI (KYC Suspicious Indicators Tool), Learning to use TESI with realistic examples and KYC Implementation Best Practices.

- A meeting with Mr J Bosco, Manager, Skill Development, CIPET, and Chennai was organised on 27th April 2023 at CIPET Campus, Chennai. The Objective was to explore the possibilities in organizing a training programs for students and working engineers in Chemical and Petrochemical industries.
- A meeting with Rubber, Chemical & Petrochemical skill development council (RCPSDC) was conducted on 27th April 2023 at Thirumalai Chemicals Ltd, Chennai. The objective of this meeting was to explore the opportunities to initiate joint skill development programs for students and working professionals to elevate their career in the Chemical and allied

industries. Mr Saif Mohammad, CEO, RCPSDC – Rubber, Chemical & Petrochemical Skill Development Council, Ms Annamma Jacob, Regional Head-South, RCPSDC, Mr Ravi Ramasamy, Director, CSDC and Ms Manisha, Coordinator, CSDC were part of this meeting.

FIRST WEBINAR IN THE SECOND EDITION OF SERIES OF WEBINARS

- ICC under the auspices of the Technology & Energy Expert Committee, organized its first webinar in second series webinars on "Cavitation Induced Transformations" on 28 April 2023. The eminent speaker for this webinar was Prof. (Dr.) Aniruddha B. Pandit, Vice Chancellor, ICT, Mumbai. The detailed report regarding this webinar is published in this issue.

MAY 2023

- ICC NRO team had a meeting on 01st May 2023 with Mr. B. B. Swain, Secretary MSME to discuss about the upcoming Safety and Environment Training course for MSME units of the Indian Chemical Sector. The meeting was fruitful and Secretary MSME has asked ICC to come up with a proposal for the benefit of MSME units and that the ministry will be pleased to extend their full support for such initiatives.
- ICC NRO along with CEO, Nicer-Globe met Mr. Ashok Kumar Madan, Executive Director, of the Indian Drugs Manufacturers' Association (IDMA) on 12th May 2023 wherein areas of collaboration between the

pharma and chemical industry were discussed during the meeting. IDMA has more than 1000 Pharma companies as its members and has extended their full support to ICC in their forthcoming events.



Department of Chemicals & Petrochemicals has agreed to recognize the 5th edition of the ICC Sustainability Conclave as a Departmental event, scheduled to be held on 2-3 November 2023 at The Imperial Hotel in New Delhi.

PARTICIPATION IN AGROCHEMICAL CONFERENCE

ICC NRO team had attended the Agrochemical conference organized by Dhanuka Group in collaboration with ET Edge (Economic Times) on 12th May 2023, Hotel Taj Palace, New Delhi. The theme of the conference was focused on Futuristic New Technologies in Agriculture and how can this be 'A Game Changer for Indian Economy.'



- ICC delegation had attended meeting held on 17 May 2023 under the Chairmanship of Joint Secretary (C&PC) to discuss the addition of Australia Group

Proposed Dipropylamine (CAS No. 142-84-7) to the list of Chemical Weapons Precursors. The meeting was attended by Mr. Dhruvil Soni, Officer, ICC – Northern Region. The department had taken views from the participants.

ICC-ICT TRAINING COURSE ON SAFETY

Mr Suresh Ramachandran, Managing Director, Arkema India inaugurated the much-awaited training program ICC-ICT Training Course on Safety Management for Indian Chemical Industry "ICC – ICT TRAINING on SAFETY in Chemical Industries - on 20th May 2023 to enable the plant personnel to operate safely, adhere to regulations, and prevent future accidents. The duration of the Course was for 20 hours (covered in 5 weeks) of two sessions of 2 hours every week.



Mr Suresh Ramachandran, Managing Director, Arkema India addressing the delegates

Prof. Prakash Vaidya, Rashtriya Chemicals and Fertilizers Chair in the Chemical Engineering Department at the ICT, Mumbai who was an active expert member in the task force of this course and who has immensely contributed in curation of the Course Structure also addressed the delegates.

The first module of this training course was on "Work Permit Systems" which was taken by Mr. J. Ravi, SHE Manager, Stahl India Pvt. Ltd.

MEETING WITH THE STEERING COMMITTEE FOR ADVANCING LOCAL-VALUE ADD AND EMPLOYMENT (SCALE)

SCALE, the Steering Committee for Advancing Local-value add and Employment (SCALE) is the initiative by The Department for Promotion of Industry and Internal Trade (DPIIT). Towards the goal of strengthening India's manufacturing and in line with the clarion call by the Hon'ble Prime Minister for AtmaNirbhar Bharat under the aegis of Hon'ble Minister for Commerce and Industry, Shri. Piyush Goyal, a 9-member Steering Committee for Advancing Local-value add and Exports (SCALE) is formed, increased to 15 members as of today.

This committee has representation from Industry and Government and is focused on identifying action plans and frameworks as well as fiscal/non-fiscal Government measures for identified champion sectors in order to:

- (i) Enhance manufacturing exports from India
- (ii) Increase domestic manufacturing value-addition and to
- (iii) Facilitate Industry - Government partnership for the above

The industry concerns that SCALE focuses on currently are EoDB, Land/Location, Environment, Technology, Building Blocks/Cracker facilities, Clearances and any other necessary areas depending on the subsector requirement.

In this regard, a Virtual Meeting was organised on Tuesday, 16th May 2023 at 2.30 p.m. to understand the concern areas regarding the production of important and strategic Fine and Bulk chemicals in the country.

Mr. Salil Singhal, Chairman Emeritus, PI INDUSTRIES LTD / from the Chemicals industry is in the Committee was the key person to engage with ICC members with specific focus on bulk/fine chemicals which contributes to a large portion of the import bill towards augmenting production in India.

Mr. Karthik Bharat Ram, Additional Vice President, ICC & Joint MD, SRF Limited; Mr. B. Vivek Shetty, Chairman, Viswaat Chemicals Ltd.; Mr. Samir S. Somaiya, Chairman & Managing Director, Godavari Biorefineries Ltd.; Mr. Sridhar Venkiteswaran, Chief Executive Officer, Avalon Consulting and a large number of ICC member companies participated in the discussions.

PARTICIPATION IN APIC CONFERENCE

ICC NRO had set up a booth in the APIC conference on 18 & 19 May 2023 at Aerocity, New Delhi and promoted the ICC activities. The team had interacted with the officials from Petrochemicals & Chemicals industry and discussed the latest trends in the industry. During the conference, the ICC's upcoming events were also promoted to the delegates present at the event.



MEETING UNDER THE CHAIRMANSHIP OF SHRI DEEPAK MISHRA, JOINT SECRETARY (PETROCHEMICALS)

A meeting was held under the chairmanship of Shri Deepak Mishra, Joint Secretary (Petrochemicals) on 23rd May 2023 at Shastri Bhawan, New Delhi to discuss the QCO extension on Toluene and Phthalic Anhydride. ICC NRO team attended the meeting along with respective member companies.

MEETING WITH SHRI SANDEEP SINGH, OSD- DEPARTMENT OF REVENUE (MINISTRY OF FINANCE)

ICC-NRO Team met Shri Sandeep Singh, OSD- Department of Revenue (Ministry of Finance) on 25th May 2023 and highlighted the issues related to Duty Drawback.

WEBINAR IN THE SERIES

On 26 May 2023, ICC under the auspices of the Technology & Energy Expert Committee, organized its first webinar in second series of webinars on "Opportunities and Challenges for Pharmaceutical Industries in India". The eminent speaker for this webinar was Mr. Shyam Bang, Formerly from Jubilant LifeSciences Ltd.

MEETING WITH JS CHEMICALS, DCPC, MINISTRY OF CHEMICALS AND FERTILIZERS & OTHERS

ICC NRO along with Chairman, International Treaties Committee - ICC had a follow-up meeting with JS Chemicals, DCPC, Ministry of Chemicals and Fertilizers, and Director HSMD, Ministry of Environment, Forest and Climate Change on 30th May 2023 to discuss the outcomes of BRS COP.

MEETING WITH THE MINISTRY OF NEW & RENEWABLE ENERGY

ICC NRO, and members of the council attended the meeting called on by the Ministry of New & Renewable Energy regarding the Green Hydrogen National Mission on 1st June 2023, New Delhi. The Ministry of New and Renewable Energy launched the National Green Hydrogen Mission in January 2023 to make India a hub for producing and exporting green hydrogen.

ICC – INDUSTRY INTERFACE PROGRAM

ICC SRO had conducted ICC – Industry Interface Program on 2nd June 2023 at Hotel Minerva Grand, Hyderabad. The program was organised to create an awareness about ICC activities - annual flagship events, Responsible Care and Nicer Globe. Ms Ramya Bharathram, Chairperson, ICC, Southern Region and MD & CFO, Thirumalai Chemicals, Mr Madhusudana Rao Divi, Director, Divis Laboratories, Mr Anil Agarwal, President, FTCCI (Federation of Telangana Chambers of Commerce and Industries) graced the

program. Dr Narayanan, In-Charge, CWC Help Desks and Mrs Shraddha A Rane, Deputy Secretary General, ICC spoke on the activities of ICC and CWC HDs and the prospects for Chemical Industry in India.



MEETING WITH SHRI ANUPAM GARG, DIRECTOR-DGFT

In order to understand the supply chain and the production process of the Chemical sector and discuss the AU's PSR proposals a virtual meeting was organised under the leadership of Shri Anupam Garg, Director-DGFT. The meeting had the objective of streamlining the product-specific rules (PSRs) proposals for all the products related to the Chemical sector at the sub-heading level. The ICC NRO team actively took part in the meeting, ensuring their presence and involvement.

MEETING WITH SHRI GANGAKUMAR, DY. DIRECTOR GENERAL, AND DCPC

A meeting was held on "Live Demonstration and Trial Session of Data Entry" for the upcoming portal of the Department of Chemicals and Petrochemicals, namely "CHARAK", under the chairpersonship of Shri Gangakumar, Dy. Director General, DCPC. ICC NRO participated in the meeting and provided the required inputs regarding the portal.

WORKSHOP FOR STANDARDIZATION CELLS OF INDUSTRY ASSOCIATIONS

ICC NRO attended the one-day Workshop for Standardization Cells of Industry Associations organized by the Bureau of Indian Standards (BIS) and National Institute of Training for Standardization (NITS).

WEBINAR ON REFINING AND/OR PETROCHEMICALS TECHNOLOGY DEVELOPMENT

ICC under the auspices of the Technology Energy Expert Committee, had organized its Third Webinar in the Second Edition of Webinar series on "Refining and/or Petrochemicals Technology development" on 23 June 2023. The eminent speaker for this webinar was Mr. Abhijit Pal, Principal Chemical Engineer – IOS Technology Commercialization, Honeywell UOP.

INDUSTRY ACADEMIA EXPERT COMMITTEE:

ICC has constituted an Industry Academia Expert Committee with Mr. Dinesh Chopra, Director & Chairman of Neochem Technologies Pvt. Ltd as the chairperson. The Terms of References of this new expert committee are: 1. To collaborate and give growth areas for applied and basic research in partner academic institutions of ICC IA Committee in accordance with industry needs. 2. To work with Industry to identify their Technology and Skill Manpower requirements and support the projects by working with academia with corresponding competencies in Universities / Institutes and by creating 'Centre of Excellence' under ICC IA Committee. 3. To work with Industry partners and Universities / Professors on IP issues. 4. Collaborate with DCPC, CSIR labs, MHRD and other government entities. 5. Promote chemistry and chemical engineering as a preferred choice in various schools and colleges. 6. Work on CSR projects of industry partners.

MEETING WITH SHRI SUSANTA KUMAR PUROHIT, JOINT SECRETARY, AND DEPARTMENT OF CHEMICALS

ICC NRO along with Shri Dinesh Chopra, Chairman, ICC Industry Academia Expert Committee met Shri Susanta Kumar Purohit, Joint Secretary, and Department of Chemicals on 30th June 2023.

During the meeting, it was discussed that to foster the growth of the Indian Chemical Industry, it is crucial to develop and enhance new technologies through active research projects, facilitated by collaboration amongst key stakeholders such as Govt. of India, academic institutions, and both large and MSMEs in the Industry and in this regard a proposal was put forward to establish "Centre of Excellence" for research at renowned academic institutions like IIT, ICT and other regional institutions that already possess the necessary infrastructure and ongoing research programs. Joint Secretary-Chemicals appreciated the ICC's proposal and assured that the Department of Chemicals and Petrochemicals will extend the fullest support to this important initiative.

PROGRAMME ON "ESSENTIALS OF CHEMICAL PROCESS TRANSFER FROM LABORATORY TO PILOT PLANT"

ICC under the guidance of the R & D sub-committee organised a programme on "Essentials of Chemical Process Transfer from Laboratory to Pilot Plant" on 16th & 17th June 2023. With goal to sensitize the respective people about concepts and factors that are essential for achieving successful Scale up and Process Transfers to Production. Such knowledge is crucial for personnel working in the process development area and technology transfer. The feedback received for the Course was very satisfactory. Around 120 participants had attended this course and received Course Completion Certificates.

JULY 2023

MEETING WITH HEAD WASTE MANAGEMENT DIVISION, CPCB

ICC NRO attended the meeting held under the Chairmanship of Head Waste Management Division, CPCB on 4th July 2023 to discuss the issue of hazardous waste handling and management for Gujarat region.

KNOWLEDGE MANAGEMENT PROGRAM FOR ENGINEERS AT – CUDDALORE by ICC SRO

CSDC Knowledge Management Program for Engineers was organised by Chem Skill Development Centre (a joint initiative of ICC, MIA & on 6th & 7th July 2023 at Heubach Colorants (India) Ltd., Cuddalore, Tamil Nadu. The program covered various subjects ranging from Behavioural based Safety, Operation Excellence, Root Cause Analysis, Trouble shooting, Process Safety Management, Hazop & SIL Study, Asset Integrity and Net Zero.

The speakers for the event included Mr Ravi Ramasamy, Director, CSDC, Mr Paul Pandian, Consultant, CSDC, Mr S Mani, Chola Mandal, Mr M.S Srinivasan, Sulzer, Mr Dilip PV, Saipem India Projects, Mr N S Murthy, McKinsey and M J Xavier, Loyola Institute of Business Administration. The Chief Guest was Mr Samuel Rajkumar, Joint Chief Environmental Engineer, TNPCC, Cuddalore.



MEETING WITH CPCB- WASTE MANAGEMENT DIVISION

ICC NRO and members of the council attended a meeting held under the Chairmanship of Head - Waste Management Division, CPCB on 4th July 2023 to discuss the issue of Hazardous Waste Handling and Management for the Gujarat region. During the meeting, the challenges faced by the industries due to the sudden implementation of the manifest ban for other States was discussed wherein CPCB suggested that ICC provide representation with specific information, such as SOPs yet to be created due to which their end users are not able to take the authorization of Rule-9.

PARTICIPATION IN SEMICONINDIA 2023

ICC participated in SEMICONINDIA 2023 on 25 – 30 July 2023 at Gandhinagar, Gujarat which was inaugurated by Hon'ble Prime Minister Shri Narendra Modi.

The theme of **SemiconIndia 2023** focused on **"Catalyzing India's Semiconductor Ecosystem,"** aimed to bring together global leaders from industry, academia, and research institutions to showcase India's semiconductor strategy and policy.

While inaugurating the program **PM Modi** said, **"India understands that the world requires a trustworthy, dependable supplier of semiconductors. What better place to start than the world's largest democracy- India?"**

ICC had taken an Exhibition Booth in **'SEMICONINDIA 2023'** which was on from 25 – 30 July 2023 with focus on **'Chemicals used in the manufacturing of Semiconductors.'** More than 125 Chemicals of very high purity levels are required for manufacturing Semi-Conductors and it is a golden opportunity for Indian Chemical Industry to get into this exciting area of Electronic Chemicals.

SemiconIndia 2023 saw the significant involvement from leading semiconductor giants such as **Micron Technology** and **Applied Materials**, both of whom have recently made substantial investment commitments in India's semiconductor ecosystem.



THIRD EDITION OF BASIC COURSE ON "CHEMICAL LABORATORY SAFETY PRACTICES"

Under the auspices of R&D Subcommittee, Indian Chemical Council (ICC) organised the Third Edition of Basic course on "CHEMICAL LABORATORY SAFETY PRACTICES" on 28th & 29th July 2023. This course was attended by large number of delegates from different organizations and received Course Completion Certificates

MOUs SIGNED BETWEEN ICC AND UNIVERSITIES

ICC has signed MoUs with leading Academic Institutions such as Institute of Chemical Technology, Mumbai, Foundation of Innovation and Technology Transfer, IIT Delhi (FITT) and Manipal University, Jaipur for furthering the industry academia collaboration..

On 28th July 2023, ICC under the auspices of the Technology & Energy Expert Committee, had organized its fourth webinar in second series of webinars on "Micro Reactors". The eminent speaker for this webinar was Dr. Amol Kulkarni, Scientist, CSIR-National Chemical Laboratory (NCL). This Webinar was attended by large number of participants.

AUGUST 2023
21st ACHARYA PRAFULLA CHANDRA RAY LECTURE

Every year, **Indian Chemical Council**, pays homage to **Acharya Prafulla Chandra Ray**, its Founder President for the first two consecutive years, by organizing the **Acharya Prafulla Chandra Ray Memorial Lecture** on topics of the world's latest trends and technologies in the field of Chemistry.

The **21st Acharya Prafulla Chandra Ray Lecture** was organized by Eastern Regional Office, Kolkata with Sister Nivedita University as the Hospitality and Knowledge Partner on the 2nd August 2023 at Sister Nivedita University, Kolkata.

The first lecture was delivered by Prof. Man Mohan Sharma, Emeritus Professor of Eminence, Institute of Chemical Technology, Mumbai, Padma Bhushan (1987) and Padma Vibhushan (2001) Awardee on 'MILESTONES IN CHEMICAL INDUSTRY' and the second one was addressed by Prof. Souvik Bhattacharyya, Senior Vice President, TCG Centres for Research and Education in Science and Technology (CREST), Kolkata on 'CORPORATE ENGAGEMENT IN HIGHER EDUCATION: Industry Immersion For Students | Education For Working Professionals'.

The dignitaries present inaugurated the Lecture by watering a plant.

Shri Bimal L. Goculdas, President, Indian Chemical Council, Managing Director & CEO, DMCC Speciality Chemicals Ltd, in his address mentioned that Acharya is well ahead of his generation, he is not only the father of Chemistry but also the father of make in India movement. He also informed that the scope of Chemical industry is enormous where there is immense scope and possibilities of research and development but there are challenges in perception. He also stated that ICC is working on making the general public aware what the chemical industry is actually doing.

Shri D. Sothi Selvam, Director General, Indian Chemical Council gave a presentation on the activities of Indian Chemical Council.

Emeritus Prof M.M. Sharma, in his lecture on Milestones in Chemical Industry, highlighted major chemical inventions – including that of ammonium nitrate as an agricultural fertilizer, cold packs and explosives; isopar in petro chemical industry, nylon –polymer; glycol oxide in automobile industry; propylene glycol in pharmaceutical and cosmetic industry; rodim and so on. He also explained in brief how the new and fundamental researches in chemistry and biotechnology have made the common life much easier and healthier. Prof. Sharma also narrated his association with Indian Chemical Manufacturers Association (ICMA, now ICC) for a long back in 1966, he was a member of the Expert Committee for Acharya Prafulla Chandra Ray Award

for indigenous development, from 1966-1990. He also said that Acharya P.C. Ray, was an extra-ordinary personality,



a great human being - first ever academican in India and a university professor who turned to be a successful entrepreneur.

Prof Souvik Bhattacharyya, in his lecture on Corporate Engagement in Higher Education, stressed on the skill gap; how to enhance employability; up-skilling and re-skilling opportunities for existing industry professionals; a diploma engineer can be a graduate, while a graduate can acquire a post graduate degree; it helps the industry to retain the existing work force with retraining them to bring quality, scalability, flexibility and engagement. He also elaborated on Industry Immersion for Students, to link industry with academic curriculum not less than twenty-two weeks, a five and half month, which is good enough for a learner to go through all the activities of the concerned industrial production.

Earlier, **Shri Debarshi Duttagupta**, Chairman, Indian Chemical Council- Eastern Region, Managing Director, East India Pharmaceutical Works Limited delivered the welcome address, **Prof. (Dr) Dhruvajyoti Chattopadhyay**, Vice Chancellor, Sister Nivedita University gave a special speech, **Shri Adika Ratna Sekhar**, Executive Committee Member, ICC, CMD, Balmer Lawrie & Co. Ltd. proposed the formal vote of thanks and **Shri Chandan Sengupta**, Immediate Past Chairman, Indian Chemical Council- Eastern Region, Senior Advisor-Head Marketing & Commodity Business, Haldia Petrochemicals Ltd. coordinated as the Master of the ceremony.



ICC – ICT FIRST PHYSICAL TRAINING COURSE ON SAFETY & ENVIRONMENT

The first physical Training Program in this series on "Safety & Environment for MSME Units in the Chemical Sector" was organised on 10th & 11th August 2023 at Ankleshwar, Gujarat. More than 200 delegates from the Chemical Industry attended the 2-day training program. At the end of the second day, the participants were awarded with the "ICC-ICT Certificate of Participation".



PRODUCT STEWARDSHIP ADVOCACY COMMITTEE

ICC has constituted a Product Stewardship Advocacy Committee with the objective of effectively capitalizing the upcoming waves of opportunities for Indian Chemical Industries, robust product stewardship awareness & implementation as per Global emerging regulations. Mr. Vinod Paremal, Regional President for Evonik, Indian Subcontinent has been nominated as the Chairperson of this Committee. The first meeting of Product Stewardship Advocacy Committee was held on 9th August 2023 at 11.00 a.m. at ICC Head Office, Mumbai. Subsequently the committee along with ICC NRO officers attended the meeting held on 18th August 2023 at Shastri Bhawan, New Delhi to discuss Mandatory additional qualifiers in import / export declarations in respect of certain products.

MEETING WITH MS NIVEDITA SHUKHLA VERMA, IAS, OFFICER ON SPECIAL DUTY, GOI AT NEW DELHI

ICC Delegation headed by Mr. Kartik Bharat Ram, Additional Vice President, ICC (and Jt. MD, SRF Limited) and Mr D. Sothi Selvam, Director General met Ms Nivedita Shukhla Verma IAS, Officer on Special Duty (who will assume charge as Secretary-DCPC from 1st Sept 2023), Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Government of India at New Delhi on 21 August 2023. Ms Nivedita Shukhla Verma was briefed about ICC's activities and extended invitation for the '58th ICC Awards Presentation Function 2022' to be held on 15 September 2023 at Taj Mahal Palace, Mumbai.



TRADE & BIS RELATED ACTIVITIES

BUDGET PROPOSALS FOR THE YEAR 2023-24 IN RESPECT OF CHEMICALS SECTOR

ICC had received an email from DCPC regarding Budget Proposals for the year 2023-24 in respect of the Chemicals Sector which involves the review of the Central Customs, Excise and Goods & Services Tax (GST) in respect of the Chemical Sector. For this purpose, DCPC sought inputs in this regard for the forthcoming Union Budget 2023-24. The proposed format and information were shared with the industry members for their valuable inputs.

In this regard, based on responses received from members of the Council, the ICC had submitted its Pre- Budget Memorandum for Union-Budget 2023-24 to the Office of the Secretary, DCPC, in order to make necessary changes to the Chemicals Sector Budget Proposals for the fiscal year 2023-24. The said representation included Revenue Implications (HS Code wise suggestions for correction in the import duty); issues related to customs policy, rules, procedures; duty drawback, other export promotion schemes and suggestions on the same; Issues related to GST and suggestions on the same; Issues related to Direct Taxes and suggestions on the same; Other Issues as suggested by the members.

With regard to the response received from members, ICC requested the duty increase on Linear alkylbenzenes (HS Code: 38170011), Tetrafluoroethane/ R-134a/ HFC-134a (HS Code: 29033919), PVC (HS Code: 39041010, 39041020, 39041090, 39042100, 39042200), Caustic Soda (HS Code: 28151110, 28151190, 28151200), Hydrogen Peroxide (HS Code: 28470000), Chloromethanes (Methylene Chloride, Chloroform, Carbon Tetrachloride) (HS Code: 29031200, 29031300 and 29031400 respectively), Soda Ash (HS Code :28362010,28362020,28362090), Sodium Bicarbonate (HS Code: 28363000) and duty reduction was requested on Acid Grade Fluorspar (Calcium Fluoride content >97%) (HS Code: 25292200), Aniline (HS Code: 29214110), Potassium Fluoride (HS Code: 28261990), VCM (HS Code: 29032100), KCL (Potassium Chloride) (HS Code: 31042000), Iso Amyl Alcohol (HS Code: 29051990).

ICC delegates participated in a meeting to discuss pre-budget proposals for the year 2023-24 organised by DCPC on November 11, 2022 at Shastri Bhawan, New Delhi. The

Meeting was chaired by Mr. Susanta Kumar Purohit, Joint Secretary, Ministry of Chemicals and Fertilizers, Department of Chemicals and Petrochemicals, Government of India.

Suggestions received from member companies regarding various chemicals and petrochemicals were presented to DCPC. DCPC requested rational justification for the duty increase on hydrogen peroxide (28477000), Acid Grade Fluorspar (25292200) and Chloromethanes (29031200,

29031300 and 29031400 respectively). In this regard, ICC shared detailed proposed information on November 14, 2022 to DCPC along with the desired rational justifications.

ICC had requested the member companies who had submitted their recommendations for the Pre-Budget, to share the price analysis data of suggested chemicals for duty reduction or increase for the last three years. Responses received from few members were submitted to the department.

UK-INDIA CHEMICALS TRADE MISSION 2022

Department for International Trade (DIT), British Deputy High Commission Mumbai in partnership with Indian Chemical Council (ICC) organized UK-India Chemicals Trade Mission 2022 on 21st and 22nd September 2022 virtually. The UK companies showcased their expertise in sustainability, green manufacturing and innovation in the chemicals sector during the Trade Mission. Alan Gemmell OBE (Her Majesty's Trade Commissioner for South Asia) was the Guest of Honour. Ms. Shraddha Rane, Dy. Secretary General, ICC spoke on "Opportunities for UK Chemical Companies in Indian Market".

DECODING INDIA'S FREE TRADE AGREEMENTS

A virtual webinar on Decoding India's Free Trade Agreements was held on 14th October 2022. The webinar was conducted by Mr. Sudhakar Kasture, EXIM Institute. The webinar gave an Overview of various FTAs. Importance and Basic elements of FTAs, how to check duty concessions/ exemptions, Future negotiations and how to increase exports by using FTAs was explained in detail in the informative Webinar.

INITIATION OF SAFEGUARD (QUANTITATIVE RESTRICTIONS) INVESTIGATION CONCERNING IMPORTS OF PVC SUSPENSION RESINS WITH RESIDUAL VCM ABOVE 2 PPM

ICC had received an email from the Directorate General of Trade Remedies regarding the Initiation of Safeguard (Quantitative Restrictions) investigation concerning imports of PVC suspension Resins with Residual VCM above 2 PPM. In this regard, ICC shared the Petition and the Questionnaire shared by DGTR with the industry members for their appropriate action in case the product is of concern to their respective companies.

DECODING INDIA'S FREE TRADE AGREEMENTS

ICC participated in Webinar on Decoding India's Free Trade Agreements organized by PMFAI in Association with Finrex Treasury Advisors LLP on 14th October 2022.

The webinar covered key topics such as Importance of FTAs, Basic elements of FTAs, how to check duty concessions /

exemptions, future negotiations, how to increase exports by using FTAs.

REQUEST FOR TARIFF CONCESSIONS ON CRUDE AND REFINED GLYCERINE

ICC had submitted a request raised from one of our member companies to Ministry of Finance on 29th Nov 2022 requesting Customs duty elimination on imports of two (alternative) inputs for production of Epichlorohydrin – Crude and Refined Glycerine, falling under customs tariff 15200000 and 29054500.

COUNTERVAILING DUTY/ANTI-SUBSIDY INVESTIGATION CONCERNING IMPORTS OF "SATURATED FATTY ALCOHOLS" FROM INDONESIA, MALAYSIA, AND THAILAND

On 13th December 2022, ICC submitted a representation to Secretary, DCPC as per the request received from the members of the Indian Surfactants Group informing Serious Challenge of Countervailing Duty (CVD) Action on the most Critical Raw Material namely Saturated Fatty Alcohol faced by these members. The department was requested to eliminate the Countervailing Duty/Anti-subsidy on import of Saturated Fatty Alcohol (SFA).

- BIS invited comments/Suggestions from industry on various Inorganic Chemical and their Products. The deadline for sending the comments on these products was 16th December 2022. The list of the various Inorganic Chemicals and their Products as well as the link of portal for downloading the documents and sending the comments on these chemicals as shared by BIS was circulated to the members for their inputs.
- On 21 December 2022, ICC sent recommendations received from Members Companies to DCPC and requested to defer implementation of the quality control orders for Toluene and Ethylene Glycol, until the revised standards are notified by the BIS.
- ICC delegation had attended stakeholders' consultation meeting for making BIS standard as mandatory for 58 chemicals organised by BIS on 22 December 2022. The said list in above meeting is shared with the members for their comments / Suggestions.
- ICC delegation had attended the stakeholder consultation for making standards mandatory for chemicals and petrochemicals scheduled for 27 December, 2022 organized by DCPC. The list of chemicals and petrochemicals discussed in said meeting was also shared with the member companies for their input.
- ICC under the aegis of Trade & Business Development Expert Committee organized a virtual meeting on 28 December 2022 to discuss the need for moving budgetary proposals to amendment to anti-dumping law. The points / amendment discussed in the meeting

was shared with the members for their suggestion / comments. The Final representation taking into consideration comments from members is sent to Department of Commerce & Ministry of finance on 18 December 2023.

- On 21 December 2022, ICC requested DCPC for extension of the due date for BIS Registration of Foreign Manufacturers of Methanol under QCO for a further period of 12 months effective from 03 February 2023. Subsequently, on 28 December 2022, ICC sent a representation requesting for extension of due date for BIS Registration of Foreign Manufacturers of Acetic Acid under QCO for a further period of 12 months effective from 03 February 2023.
- On 21 January 2023, Indian Chemical Council (ICC) had submitted a representation to the Ministry of Finance regarding the need for antidumping law amendments directed towards clarifying the present law and aligning it with the WTO Agreement or laws/practices adopted by other WTO Member countries for consideration in the Union Budget 2023.
- ICC had sent a representation to Ministry of Chemicals & Fertilizers on 7 February 2023 requesting intervention towards issuance of Restricted License for import of Ethanol (Denatured Ethyl Alcohol) as suggested by one of the member companies.
- On 13 February 2023, ICC had sent an email to DCPC requesting 6 months extension on BIS Notification No: S.O.4140 (E). Since the current Quality Control Orders (QCO) on Paraxylene is valid up to 18th March 2023. ICC had requested for the extension in advance to avoid any disruption in supply of this critical raw material by overseas manufacturers.
- On 28 February, 2023, Indian Chemical Council had submitted a representation to the Department of Chemicals & Petrochemicals (DCPC) requesting their intervention towards issuance of Restricted License for import of Ethanol (Denatured Ethyl Alcohol) as requested by one of the member companies.
- Department of CPC organized a meeting under the chairmanship of Mr. Deepak Mishra - Joint Secretary (Petrochemicals) on 03rd March 2023, to discuss the industry request for QCO extension on Linear Alkyl Benzene (LAB) and Polyethylene (PE). ICC team conveyed industry's view points on the matter. DCPC has issued a gazetted notification extending QCO extension for one year.
- On 6 March 2023, ICC received a letter from the Department of Chemicals and Petrochemicals mentioning that the Ministry of Commerce & Industry is undertaking an exercise to review the current Foreign Trade Policy. The present policy was announced on 1 April 2015 and its operation has been periodically extended till 31 March 2023.

- On 21st March 2023, ICC had submitted a representation under the guidance of Mr. Vivek Gadre, Chairman, Trade & Business Development Expert Committee, ICC to DCPC for review of current foreign trade policy.
- On 21st March 2023, ICC had received a notification from Central Board of Indirect Tax (CBIT) regarding Changes in Customs and Central Excise duty rates effective from 2nd February 2023 the said notification was sent to member companies for their inputs / comments.
- Regarding Concerns of Downstream Petrochemical industries processing Hydrocarbon (C3 & C4) streams from refineries due to the recently imposed AIDC on Non-Domestic LPG, ICC sent a representation to Ministry of Petroleum and Natural Gas & Department of Chemicals & Petrochemicals on 11th July 2023 requesting department to take immediate measures to withdraw the levy of AIDC with specific reference to Petrochemical industry drawing Hydrocarbon streams from Indian refineries like CPCL. The GoI however, slashed import duty, agriculture and infrastructure cess on LPG import to NIL.

ENVIRONMENT

- ICC has sent an email communication to Hon'ble Union Minister of Environment, Forest & Climate Change on 13 March 2023 requesting that it is advised to GPCB to extend the time limit of interim policy for the purpose of the issue of hazardous waste utilisation under Rule 9 of the Hazardous Waste Rules 2016 in Gujarat for one more year, to help industries adopt the principle of "Reduce, Recycle and Reuse" to reduce pollution and minimizing wastage.
- ICC had sent a representation to the Ministry of Environment, Forest and Climate Change, Govt of India on 14 March 2023 requesting for continuation of the operation of the Integrated Regional Office (IRO), Gandhinagar. Since the regional office in Gandhinagar plays a vital role in handling tasks such as forest clearances, monitoring conditions and maintaining a database on forest clearance. Therefore, ICC had requested the department to kindly consider retaining the Regional Office in Gandhinagar, Gujarat, for the benefit of the environment, economy and the industry.
- On 14th March, ICC delegation had attended the Stakeholders Consultation Meeting for making BIS Standards as mandatory in respect of 76 Chemicals that are listed under International Conventions and termed as 'Hazardous' under MSIHC Rules.
- On 26th June 2023, ICC had received a notification from the Ministry of Environment, Forest and Climate Change (MoEFCC) regarding draft Green Credit Programme Implementation Rules 2023. In this regard, ICC sent gazette notification received from the department with its member companies and requested for their valuable inputs / comments.
- ICC had received a gazette notification from the Ministry of Power, in exercise of the powers conferred by clause (w) of section 14 of the Energy Conservation Act, 2001 (52 of 2001) the Central Government, in consultation with the Bureau, published a Carbon Credit Trading Scheme, 2023. Gazette notification from the Ministry of Power was shared with member companies for their information.
- On 10 April 2023, ICC delegation led by Mr. Bimal Goculdas with Mr. Ravi Goenka, Mr. Yogesh M. Kothari, Mr. Pankaj Mehta, Mr. B Vivek Shetty, Mr. Suresh Ramachandran and Mr. Ashesh Jain had a meeting with Mr. Pravin Darade I.A.S., Principal Secretary - Environment Department and Member Secretary - Maharashtra. In the said meeting following points were discussed.
 - Simplify process of Expansion of ZLD units
 - Minimize ZLD, especially in coastal areas –
 - Comprehensive EIA Approval for the entire industrial estate –
 - Permission under Rule 9 of Hazardous Waste Management Rules – 2016
 - Boost productivity by tweaking Green-belt norms (no Environmental Impact) Request for making
 - Responsible Care (RC) mandatory for all the Chemical manufacturing units in Maharashtra or
 - Incentivizing companies adhering to & Responsible Care initiative
 - Decriminalization of industry executives in safety incidents without suitable investigation of root cause
 - Partnering with industry bodies/associations to run an awareness building program focused on waste management compliance, hazardous waste management (circularity), by product handling, etc.

It was decided that these points will be further discussed in detail with the Technical Team of MPCB, Government of Maharashtra at Mantralaya, Mumbai.

- On 17 June 2023, ICC had submitted a representation to Chairman, Central Pollution Control Board requesting for suspension of rule 9 passbook and authorization for interstate movement of hazardous waste.
- On 31 May 2023, ICC had submitted a representation to Gujarat Pollution Control Board requesting suspending the Copy of Authorization under "HW" rules 2016 and Rule 9 passbook copy for a duration of at least one year or till the SOPs are issued (whichever is earlier), in anticipation of the timely issuance of the necessary SOPs by the CPCB.

- On 24th March 2023, ICC had submitted a representation regarding issues faced by the chemical industry and policy recommendations to Ministry of Environment, Forest and Climate Change, Government of India.
- ICC delegation had attended a meeting held on 28th March 2023 India – Gulf Cooperation Council (GCC) FTA negotiations. The list of products discussed in the said meeting was circulated to members and suggestions / comments received from members were submitted to DCPC on 31st March 2023.
- As a part of the proposed Foreign Trade Policy Document, it is being contemplated to announce a vision & strategy document for laying the road map of exports of products and services from India, along with the schemes and handbook of procedure w.e.f. 1 April 2023. In this regard, ICC had sent request to all the member companies to share their valuable inputs/ comments. An interim report has been submitted based on report furnished by Chairman - Trade and Business Development Committee of ICC.
- ICC delegation had attended a meeting held on 06th April, 2023 under the Chairmanship of Joint Secretary, Petrochemicals to discuss strategies to reduce imports and increase domestic production of the tariff lines exhibiting import surge. In this regard, DCPC has sought inputs / comments about the tariff lines exhibiting import surge. The list containing the tariff lines exhibiting import surge was shared with members for their Inputs / comments and the comment received by members was shared with the department.
- A Gazette order published by the Government of India Dated 21st Oct 2022 with SO.4992 (E) and SO.4996 (E) regarding the QCO to be released for making BIS mandatory on Lauric acid & Coconut Fatty Acid respectively to come into force on 24 April 2023. In view of this on 21st April 2023, ICC sent a representation to DCPC requesting for extension of the QCO on Lauric Acid (IS 10931:1984) and Coconut Fatty Acid (IS 12069:1987) by another one year on behalf of its member companies.
- ICC had participated in the meeting conducted by DCPC on 06th April 2023 to discuss strategies to reduce imports and increase domestic production of the tariff lines exhibiting import surge. ICC had requested for comments from members regarding the same. On the basis of inputs received from members, on 21 April 2023, ICC sent a representation requesting recommending to restore the Import Duty on Suspension Grade PVC Resin to 10% ad valorem. It has also been recommended to reduce the Import Duty on Vinyl Chloride Monomer (VCM) to Nil for ensuring the availability of building blocks at international prices. As BIS Standard for PVC Resins has not been

made mandatory so far and therefore it is requested to mandate BIS standards for PVC resin for curb import of low quality material without any deterrent.

- ICC received a gazette notification from DCPC on 21 July 2023 regarding extension of enforcement of QCOs on Morpholine, Acetic Acid, Methanol, Aniline, Pyridine, Gamma Picoline, Beta Picoline, Potassium Carbonate, Acetone, Sodium Tripolyphosphate. Gazette notification from DCPC was shared with member companies for their information.
- BIS invited comments/Suggestions from the industry on Wide Circulation of CHD 21 (21732) WC, CHD 20 (23101) WC, CHD 05 (23112) WC, CHD 05 (21126) WC, CHD 15 (23085) WC, CHD 15 (23046) WC, CHD 15 (23059) WC, CHD 15 (23050) WC, CHD 20 (23101) WC, CHD 23 (23049) WC, CHD 21 (21732) WC, CHD 20 (23101) WC, CHD 05 (23112) WC, CHD 05 (21126) WC, CHD 15 (23085) WC, CHD 21 (23082) WC, CHD 15 (23016) WC, CHD 15 (22887) WC, CHD 15 (23002) WC, CHD 23 (23077) WC, CHD 05 (19847) WC, CHD 15 (23045) WC, CHD 15 (23044) WC, CHD 15 (23009) WC, CHD 15 (23004) WC, CHD 15 (23003) WC. The list of the various Chemicals and their Products as well as the link of portal for downloading the documents and sending the comments on these chemicals as shared by BIS was circulated to the members for their inputs.
- On 13th July 2023, ICC sent a representation to Secretary, DCPC requesting for extension of compulsory implementation of QCOs of Acetic Acid, Methanol and Aniline by 180 days

NEW FOREIGN TRADE POLICY ANNOUNCED BY DGFT, SANTOSH NARANGI

The previous FTP ended on 31 March 2023 but new FTP 2023 has no end date, however it will be amended periodically based on that time scenario and continuous feedback received from Trade and Industry.

The overview of the New Foreign Trade Policy is as follows:

- Online approvals without physical interface have introduced for Advance authorization issuance, Export Promotions Capital Goods Scheme issuance (EPCG), revalidation of authorizations and extension of Export Obligation period.
- Reduction in user charges for MSMEs under Advance Authorization Scheme and EPCG
- Work towards making INR a global currency and facilitating International Trade Settlement in INR by accepting payment in INR under new FTP scheme.
- Four more Towns (Faridabad, Moradabad, Mirzapur and Varanasi) have been declared as Town of Export Excellence in addition to the list of previously announced 39 towns of export excellence.
- Capacity building at district level and Emphasis on streamlining SCOMET licensing procedure.

- Ease of policy for export of dual use items under SCOMET consolidated at one place for ease of understanding and compliance by industry.
- SCOMET policy also emphasizes India's export control in line with its international commitments under various export control regimes to control trade in sensitive and dual use items including software and technology.
- Recent policy changes introduced such as general authorization for export of certain SCOMET items to streamline licensing of these items to make export of SCOMET items globally competitive.
- Battery Electric Vehicles, Vertical Farming Equipment, Wastewater Treatment and recycling, Rainwater harvesting system and rainwater filters and Green Hydrogen are added to Green Technology products in order to take benefit of Reduced Export Obligations requirement under EPCG scheme
- The policy simplifies to facilitate export of dual use high end goods and technology like Cryogenic tanks, certain chemicals etc.
- The Secretary, Department of Commerce, Shri Sunil Barthwal has mentioned about 5 Ds Policy concept Duration, Dynamic, Direction, Decentralization and Disaster Proof Trade to build confidence between the trade countries which are willing to pay in INR during trade.
- Shrimati Anupriya Patel, Minister of State for Commerce and Industry has admired the policy and said since the export is fundamental drive for the growth of the nation, the new policy is indeed much awakening and will give boost to the growth of nation with sustainability concept and policy certainty. It gives clear directions to growth in sector of Export.
- Shri Piyush Goyal has emphasized on think high. He presented statistical data on growth of Foreign Trade in recent years. He gave motivational speech in front

of all traders and Industries to work hard together to achieve the target of 2 trillion Foreign Trade by 2030.

- Approximately +600 virtual participants were remaining present during the unveiling of Foreign Trade Policy 2023.
- On 29 May 2023, Government E-Marketplace (GeM) organised an awareness program for ICC member companies in order to understand the requirements of the members in respect of creation of new categories, up-gradation of existing categories, on-boarding of sellers/products on GeM portal etc. In the said meeting, creating new categories and HSN codes for various active and inactive chemicals was discussed. The list of active and inactive chemical categories shared by GeM portal was shared with members for their inputs / suggestions.
- On 4th August 2023, ICC shared list of 587 tariff lines shared by DCPC requesting comments/inputs with regard to India-EU FTA negotiations. ICC has sent a representation on 12th August 2023 to DCPC comprising of comments/inputs received from its member companies regarding India-EU FTA negotiations

PRODUCT STEWARDSHIP ADVOCACY ACTIVITY

On 20th June 2023, ICC received representations from its members regarding the Circular No. 15/2023-Customs dated 7 June 2023 issued by CBIC specifying that it is mandatory to declare IUPAC name and CAS number of the constituent chemicals, for imports under Chapter 28, 29, 32, 38 and 39 of the Customs tariff Act, 1975.

Considering views/ inputs received from its member companies regarding the said subject on 27 June 2023, ICC sent the representation to Chairman, CBIC requesting reconsider the decision of making additional qualifiers mandatory, an extension of a minimum period of one year for the implementation of the Circular, government-industry engagement to identify opportunities that would meet the Government's objectives on said subject.

ACTIVITIES OF RESPONSIBLE CARE

Until August 2023, 166 companies are RC Signatories to the program and pursuing the implementation of Responsible Care Codes Management System, out of that 85 enlightened companies are Responsible Care (RC) Logo holder in the country.

RCLG IN-PERSON MEETING AT PARIS

Dr. Pranav Tripathi had attended the RCLG Meeting at Paris on 7-8th September 2022 and made a presentation on RC Extension to Chemical Warehousing Industry. This project was supported by UNEP.



Dr. Pranav Tripathi also took part in ICCA Energy and Climate Change leadership group (E&CCLG) virtually and made presentation on "India Energy Conservation [EC] Act 2022: Opportune Moment for the India's carbon credit market".

ICC SVA (SECURITY VULNERABILITY ASSESSMENT) PROGRAM

ICC SVA Program was organized jointly by SNL, USA, and ICC at various member company locations. It is a unique three day program focused on providing companies with hands-on SVA experience with international expertise. In the month of October, ICC organized SVA Programs in 3 different companies.

Sr. No	Name of company	Dates	ICC Experts	SNL Experts
1	Godavari Biorefineries Limited	10 th to 12 th Oct 2022	Dr. Pranav Tripathi	Dr. Cecelia V. Williams
			Dr. R. Narayanan	Dr. Sue Caskey
			Mr. Rajeev Marwah	Dr. Commie R. Byrum
2	Laxmi Organic Industries Limited	14 th to 17 th Oct 2022	Dr. Pranav Tripathi	Dr. Sue Caskey
			Mr. P. Manoharan	Dr. Commie R. Byrum
			Mr. M. K. Rao	Dr. Maurice K. Payne
3	Chemplast Cuddalore Vinyls Limited	19 th to 21 st Oct 2022	Dr. Pranav Tripathi	Dr. Sue Caskey
			Dr. Rakesh Kumar	Dr. Commie R. Byrum
				Dr. Maurice K. Payne



RESPONSIBLE CARE MANUAL PREPARATION WORKSHOP FOR CHEMICAL WAREHOUSING FACILITIES

ICC had organized the two days physical workshop on 15th & 16th December 2022, at Taj Santacruz. The objective of workshop was to train the chemical warehousing company employees on the "Chemical Warehouse Responsible Care Manual". To make this manual, basic foundation has been made in the workshop by taking advice of a warehousing experts, industry experts and RC Auditors. Mr. Daniel Roczniak, Senior Director Responsible Care, American Chemistry Council joined this workshop physically.

Mr. Barry Dyer, Chief Executive, Responsible Care New Zealand had joined the workshop virtually and delivered their thoughts and guided the delegates. Mr. Bimal Goculdas, President, Indian Chemical Council (ICC) was the chief guest of workshop. The delegates visited to Rhenus Logistics warehouse at Bhiwandi.



MEETING ON RESPONSIBLE CARE KEY PERFORMANCE INDICATORS (RC-KPI) ONLINE PORTAL

ICC had organised an Online Meeting on 23rd February 2023 to inform RC Signatory and logo holder companies about Responsible Care Key Performance Indicators (RC-KPI) Online portal. RC-KPI is a tool to monitor 'EHS&S Performance of Companies.' The tool meets the global standards of ICCA - RC requirements. Presently, ICC collects the data through an algorithm-based excel tool. ICC has noticed that the member companies do face lots of challenges in data collection & submissions, and various avoidable mistakes in reporting data, etc. Also, looking upon the wide scope of data & huge volume of data, ICC decided that from this year onwards, RC Logo holders & Signatory companies will submit the data via the online

portal, named "ICC RC KPI Webtool." This meeting has helped the companies to understand the 'Importance & basic information about the Webtool,' and also how it is beneficial to companies, their data security, the period of submission of data, an inaugural program of a portal, etc. More than 220 people attended the meeting and interacted to provide valuable inputs.

RCLG MEETING AT WASHINGTON DC, USA

Dr Pranav Tripathi, Dy Director, ICC attended the spring meeting of the Responsible Care Leadership Group (RCLG) of International Council of Chemistry Associations (ICCA) in Washington DC, USA on 4th & 5th April 2023. This meeting was hosted by American Chemistry Council (ACC). ACC is presently serving as the secretariat of RCLG. The meeting was attended by 22 delegates physically and 25 delegates virtually. Mr. Dhruvil Soni, Officer – Sustainability, Environment and Regulatory Issues, ICC – Northern Region had attended this meeting virtually. This meeting was inaugurated by ACC president & CEO Mr. Chris Jahn.

The key agenda for the two days of discussion was on the development of the Responsible Care (RC) self-assessment tool. The web-tool to be hosted by ICCA, can be used by any company or association around the world to assist their maturity on RC. This tool will not replace the RC Assessment of any individual association. This is a voluntary initiative. ICCA has advised the member associations to provide the names of few companies for the tool testing. The tool will be launched in ICCM-5.

ICCA is also revamping the Key Performance Indicator (KPI) Webtool. In the revamped version, the associations will be required to submit member companies' data with individual blinded codes. This will be launched in Jan 2024.



RESPONSIBLE CARE – KPI WEBTOOL LAUNCHED

ICC had launched the Responsible Care KPI Webtool on 2nd June at an impressive function held at Mumbai, attended by more than 250 senior delegates from the industry. Dr. Tara Henriksen, Managing Director Responsible Care, American Chemistry Council, Mr Vikram Handa, Managing Director, Epsilon Carbon, Mr B Vivek Shetty, Chairman, Viswaat Chemicals Ltd and Mr Ravi Kapoor, Chairman, Sustainability Expert Committee, ICC & Chairman & Managing Director, Heubach Colour Pvt. Ltd took part in the programme.



Responsible Care (RC) is the global initiative developed by the chemical industry to promote the safe, secure, and sustainable management of chemicals throughout their life cycle. Launched by the **International Council of Chemical Associations (ICCA)**, Responsible Care has been adopted by chemical companies and associations across the globe.

Indian Chemical Council (ICC) is the only full member of **ICCA from India** and is well represented in the ICCA Board /General assembly, Associations Round Table (ART) and in the various leadership groups such as Responsible Care, Energy & Climate Change, Plastics, and Chemical Policy & Health Leadership. ICC also plays an active role in cross cutting groups and working groups such as Carbon Neutrality and Micro Plastics.

The primary goal of Responsible Care is to continuously improve the industry's performance in the areas of environmental protection, health and safety, and security. The initiative encourages the companies to go beyond regulatory compliance and voluntarily implement practices that minimize the impact of their operations on people and the environment.

Responsible Care promotes transparency, accountability, and collaboration within the chemical industry. It aims to foster trust and confidence among stakeholders, including the public, by demonstrating the industry's commitment to responsible practices and sustainable development.

In 1994, ICC introduced the RC program for member companies, started assessing the companies in 2006 for granting prestigious **Responsible Care Logo Certificate**.

At present, ICC has **163 companies who have given top-management commitment** to practice Responsible Care Management System in their operations and out of that, **84 companies are audited by ICC and enjoying the benefits of being of Responsible Care logo holding companies in India.**

ICC's Responsible Care program includes several key elements, such as:

- **Leadership commitment:** Companies are required to demonstrate their commitment to Responsible Care by signing the ICC's Responsible Care Declaration.
- **Performance measurement:** Companies are required to set performance goals and measure progress towards meeting them.

- ICC Audit / verification: Companies are required to undergo audit verification by ICC to ensure that they are meeting the Responsible Care standards.

RC-Key Performance Indicators (KPIs) play a crucial role in measuring and assessing the performance and progress of Responsible Care initiatives within the chemical industry. KPIs are important in the context of Responsible Care as they provide a framework for measuring, monitoring, and improving performance. They enhance accountability, transparency, and stakeholder engagement while helping companies manage risks and drive continuous improvement in environmental protection, health and safety, and security practices within the chemical industry.

Responsible Care Logo Holder and Signatories companies are required to report on their KPIs and undergo regular RC Audit verification to ensure that they are meeting their commitments.

It is heartening to see so many companies regularly submit the RC KPI Data on their performance of safety, health, and environmental standards every year to ICC. After aggregating with the rest of ICC RC Signatories Companies' data, ICC provides this data to the ICCA. By collecting aggregated metrics from associations worldwide, ICCA is able to communicate the global industry performance and advancement to international stakeholders such as the United Nations, International Labor Organization, and others.

It is of utmost importance that associations report completely and accurately on an annual basis.

In terms of data points to be captured, the KPIs are large and requires a very sophisticated tool to capture and analyse data. ICC has been utilising an Excel based Tool for data collection and reporting purposes. The methodology is in alignment with internationally recognized standards set by The International Council of Chemical Associations (ICCA), the Intergovernmental Panel on Climate Change (IPCC), Global Reporting Initiative (GRI), and more.

However, as we progress ahead, there is a need to transition from this traditional Excel-based reporting to a more advanced digital platform known as the **RC-KPI Webtool**. This innovative webtool will revolutionize how we collect, measure, and report, Environment, Health, Safety, and Security data. It not only stores historical data for benchmarking and comparison but also empowers companies to develop sustainability reports, Business Responsibility and sustainability reports, EHS&S reports, and more. **The Webtool provides comprehensive analytics at both company-based and site-specific level.**

This new online KPI platform will be user friendly and will be greatly help the RC companies and ICC to gather and analyse KPI information and to set benchmarks. With the development of this platform for KPI, it is now mandatory for Responsible Care Logo Holder and Signatory Companies to submit their data through the RC-KPI Webtool, ensuring that we uphold the highest standards of responsibility and sustainability.

ACTIVITIES OF NICER GLOBE

After formalizing a MOU with Intel last year, the implementation part pursued by Intel in association with Nicer globe. The pilots were carried out within the industry players and the reports shared provided deep insights and suggestive interventions to improve the driving behaviour carrying chemical goods. The adaption of the ADAS (advance driver assistance systems) is under progress.

- Nicer Globe participated in OPCW (organization for the prohibition of chemical weapons, As Indian Government and Industry representative participated in workshop on developing indicative guidelines for transportation of hazardous goods. This event took place in Malaysia between February 22nd and 28th, 2023. Nicer Globe had utilized the opportunity to share the best practices of Nicer globe with the Malaysian chemical productivity corporation and industry stakeholders. Malaysian chemical productivity corporation/ Government representatives had visited India on July 12th to July 16th – to get an insight on the operations of Nicer Globe.

Progress on the operations

- Nicer Globe membership update- 76 (this includes 19 transporters).
- Nicer Globe had carried out the Journey Risk Assessment of over 4500 KMS for its member community.
- Nicer Globe Emergency Control centre and Quick Response teams have handled over 30 chemical incidents, apart from the multiple mock drivers conducted on behalf of the members.
- About 4,500 kms of distance were carried out by multiple companies this year.
- NG has planned to increase its current strength of 15 QRT members (quick Response team) to 25 during this year.

ICC has appointed a COO (chief operating officer) to support CEO in effective implementation of its initiatives/programs.

ACTIVITIES ICC - CWC HDs

Activities carried out by the ICC - CWC HDs located in Vadodara, Mumbai and Hyderabad and the notification for submission of Annual Declaration of Anticipated Activities (ADAA 2023) for the Schedule 2 and Schedule 3 CWC declaring facilities.

- CWCHDs have sent the following to ICCHQ which in-turn will be submitted to the NACWC
 - Activities report of all the CWC Help Desks in Q1 of the financial year 2022-23
 - Targets for Q2 of 2022-23
 - Online events conducted by each Help-Desk in the Q1 of 2022-23;
 - Programmes to be conducted in Q2 of 2022-23
 - Important information/ achievement of ICC relating to CWC during this period;
- Hyderabad CWC helpdesk relocated its office to new premises from the 1st of August 2022.
- All the CWCHDs carried out the following:
 - Potential Declarants list updated.
 - Queries of new potential declaration units resolved and the units have updated their details in order to obtain CWC declaration credentials form NACWC.
 - All the Declarants have been informed regarding the intention of NACWC towards opening of the window in the month of September 2022 for online submission of Annual Declaration of Anticipated Activities (ADAA) 2023
 - Preparation of updated communication / mailing list of all declaring units for ADAA 2023
 - Monthly internal review meeting was conducted and challenges faced were discussed.
 - Activities carried out by the ICC - CWC HDs located in Vadodara, Mumbai and Hyderabad - Submission of Annual Declaration of Anticipated Activities (ADAA 2023) by all the Schedule 2 and Schedule 3 declarants
- Reminder regarding the Notification for submission of Annual Declaration of Anticipated Activities (ADAA 2023) was sent to all the Schedule 2 and Schedule 3 CWC declaring facilities in all the regions.
- The e-filing website site for ADAA 2023 was kept open by the NACWC from 01 September 2022 to 15 September 2022.
- Seventeen (17) individual (one to one) online interactions were organised by the three Help Desks from 01 September 2022 to 08 September 2022 in order to provide awareness of ADAA declaration (as there were new nodal CWC officers in a few declaring facilities) and to make sure that error free declarations were obtained from the declaring units.
- Apart from the above online meetings a lot of conference calls and phone calls were made and the CWCHDs provided extensive help to all the declarants as desired by them while filling and filing the form.
- The ADAA declarations in all the regions were completed within the time frame given by the NACWC (15th of September 2022) due to the continuous follow up by CWCHD team members with the Schedule 2 and Schedule 3 declarants.
- Queries of declaration facilities regarding online credential issues, Digital Signature and declaration details were resolved immediately which helped the facilities to submit their declaration error free. Most of them preferred to use the Aadhaar card number to the DSC procedure as it simplified the submission process.
- Updates regarding the status of ADAA declarations were sent by all the three CWCHDs on the 8th and 15th of September 2022 to the NACWC.
- Monthly internal review meeting within the CWCHDs was conducted and challenges faced were discussed.

MEETING WITH CHAIRPERSON NATIONAL AUTHORITY FOR CHEMICALS WEAPONS CONVENTION

ICC NR had a meeting with Ms Neel Kamal Darbari I.A.S., Chairperson NACWC on 7th October 2022. It may be noted that Indian Chemical Council provides support to chemical industries across India with its Help-Desks i.e., Mumbai, Vadodara and Hyderabad. However, ICC Help Desk, Delhi which was earlier operated by ICC, is not active since 2020 in the absence of financial assistance from National Authority. NACWC was requested to support the starting of ICC Help Desk of Delhi office and provide required financial assistance, as it was done before 2020. The Chairperson of National Authority agreed to consider our request favorably.

9th ANNUAL MEETING OF REPRESENTATIVES OF CHEMICAL INDUSTRY AND NATIONAL AUTHORITIES OF STATE PARTIES TO CHEMICAL WEAPONS CONVENTION AT DOHA

The 9th Annual Meeting of representatives of Chemical Industry and National Authorities of State Parties to the Chemical Weapons Convention was held in Doha, Qatar from 18th till 20th of October 2022.

Dr. R Narayanan, Advisor, CWC Help Desks participated in the conference along with Mr S R Meena, Under Secretary, NACWC. Delegates from more than 30 countries participated and the total number of participants was around 140 including the international delegates, Qatar NPCW delegates, traders and other local industry representatives.

Dr. R Narayanan spoke on "India's perspectives on capacity building requirements for small and medium-sized chemical industries ". The topics covered were the technical assistance by the NACWC to the CWC declaring industries through the CWCHD, outreach programs such CWC awareness events, Chemical Safety and Security events with DGFT covering SCOMET regulations, training events for capacity building and other miscellaneous activities like OPCW sponsored training programs etc.

While talking about the role of ICC in Chemical Security of chemical manufacturing units, Dr. Narayanan briefly talked about the Security Code as the seventh code

for Responsible care, Security Vulnerability Assessment (SVA) to qualify for facilitating the implementation of Security Code, Nicer Globe and other training programmes conducted by ICC for the benefit of small and medium-sized chemical industries. He also touched upon the Analytical skills development course conducted for global participants by IICT, Hyderabad. While talking about the way forward, he talked about the expected growth of Chemical industry in India by 2025 and the associated problems with growth in the perspective of CWC especially regarding counter terrorism.

The 3-day conference included the speeches by most of the State Parties, OPCW delegates, President of CEFIC and other relevant organizations. Final day of the conference included several breakout sessions and the presentation of the meeting outcome by the Chairman of NCPW.



AWARENESS PROGRAMME ON CHEMICAL WEAPONS CONVENTION (CWC) AND CWC ACT 2000

ICC's CWC Help Desks located at Vadodara - Gujarat, Hyderabad - Telangana and Mumbai- Maharashtra with the support of National Authority Chemical Weapons convention, NACWC, Cabinet Secretariat, Govt. of India, organised Eight Programmes on CWC Awareness for CWC Declaring and Potential industries located in Gujarat, Telangana, Andhra Pradesh, Tamilnadu, Maharashtra and Goa.

The objective of conducting the programs was to create an awareness and understanding of the Chemical Weapons Convention (CWC), the importance of CWC Act-2000 and its relevance to the chemical industry and the declaration requirements.

The participants were selected as per the region and the industrial area they belong to:

NO.	DATE	STATE	AREA COVERED
1	30 November 2022	Gujarat	Ahmedabad
2	02 December 2022	Goa	Panjim
3	02 December 2022	Gujarat	Vadodara
4	07 December 2022	Andhra Pradesh	Visakhapatnam
5	09 December 2022	Telangana	Hyderabad
6	13 December 2022	Gujarat	Vapi
7	14 December 2022	Tamilnadu	Chennai
8	14 December 2022	Maharashtra	Solapur

The following topics were covered with necessary video illustrations.

- Overview on the CWC Act 2000, Brief history of Chemical Weapons, the use of nerve and blister CW agents in the battle fields, mechanism of action of nerve agents and the antidotes.
- The roles and responsibilities of National Authority for the implementation CWC Act 2000 (NA-CWC) in India.
- The recent amendments and the terms involved in the declaration process with illustrated examples, Verification Regime, Online declarations and Digital Signature Certificate (DSC) and E sign with Aadhar card.

Dr. R. Narayanan, Mr Rajendra Patel and Mr. Chintamani Deshmukh made the CWC related presentations in the events conducted in Southern Region, Gujarat region and Maharashtra respectively.

The programs were well received which was evident from the fact that the participants were quite receptive to the deliberations as the CWCAP physical events were conducted almost after two years. The events were conducted in accordance with the NACWC Guidelines for CWC Help Desks.

NACWC has given consent for conducting 14 CWCAP events across the country in the physical mode before the Annual Declaration of Past Activities (ADPA 2022) for which the website will be open from 1st of January 2023.

- Indian Chemical Council, with the support of National Authority for Chemical Weapons Convention (NACWC), Cabinet Secretariat, Govt. of India, organised 'Fourteen Awareness Programmes on Chemical Weapons Convention (CWC)' as per our Memorandum of Understanding (MoU). The events were mainly focussed on declaring facilities and the potential

declarants in the regions allocated for the CWC Help Desks located at Hyderabad - Telangana), Mumbai- Maharashtra and Vadodara – Gujarat.

- The main objective of conducting the events was to create an awareness and understanding of the Chemical Weapons Convention (CWC), the importance of CWC Act-2000 and its relevance to the chemical industry and the declaration requirements. The other objectives were to highlight the importance of Error Free CWC Declarations while submitting the declarations through e-filing and to discuss the issues faced by the declarants while filling in and submission of declaration and the steps regarding Digital Signature Certificate (DSC) which has been introduced in E-filing to authenticate the Annual Declaration process.
- The participants were made aware of the latest SCOMET Regulations/updates notified by DGFT, relevant provisions of CWC Act and declarations requirements. The other important objectives were to remind the participants on common mistakes committed in providing declaration information, implications of errors in declarations and to improve skills in e-filing of declarations.



NACWC officials viz: Mr Santhosh Ingole, Dr. Rohit Misra, Ms Manjul Bharadwaj, Dr. Vikash Agrawal, Dr. Amit Kumar, Mr Amit Kumar Singh, Mr Bijay Kumar and Mr Pavan Kumar.

- The Annual Declaration of Past Activities (ADPA 2022) e-filing was completed on time by all the three Help Desks like the previous two years. This was possible because of the continuous reminders sent to all the declaring facilities, Potential declarants and traders for submission of ADPA 2022 declarations.
- Scrutinizing to ensure filing of complete and error free declarations were done, for all the declarations which were received from the declaring facilities.
- Weekly status reports and the final status report on the update of ADPA 2022 declarations were sent to the NACWC promptly.
- A total of 18 overall new declarants from all the jurisdictions belonging to three CWC Help Desks had submitted initial declarations in 2002 and subsequently submitted ADPA 2022 as well. These declarants included Schedule 3 traders and OCPF units.
- A Seminar on Chemical Warfare: 'Emerging Threats: International and National Mechanisms' was delivered by Dr. R Narayanan, CWC HD In-charge and Advisor to ICC on CWC Implementation in the CBRN Emerging Threats and Challenges conference held in New Delhi on the 30th and 31st of January 2023. This was organized by the Centre for Land Warfare Studies, CLAWS, New Delhi and the Directorate General of Strategic Planning, MoD (Army), New Delhi.
- Activities carried out by the ICC - CWC HDs which are located in Vadodara, Mumbai and Hyderabad and the feedback obtained from the declaring units on the performance of the ICC-CWC HDs based on the Awareness programme on Chemical Weapons Convention (CWC) and CWC Act 2000 and Annual Declaration of Past Activities 2022 (ADPA 2022) are given below:
- ICC's CWC Help Desks located at Vashi- Maharashtra, Vadodara - Gujarat and Hyderabad – Telangana sent the feedback forms to all the 700 plus declaring units of CWC and collected the feedback within a fortnight.
- The feedback was based on the following:
 - Mail communication to declarants
 - Mail to declarants about training information
 - ADAA/ADPA related queries
 - Quality of Interaction by HD experts to Declaration units
 - Quality of Information provided by HD
 - Knowledge of HD in-charges related to the subject
 - Promptness in answering related to the queries
- Feedback received by all the 3 ICC-CWC HDs from the declaring units was compiled and sent to NACWC.

Feedback was received from almost 80% of the declaring units.

- All the CWC help-desks made sure that all the CWC declarants in the respective regions submitted the declarations on time to the NACWC after continuous follow-up.
- The ADPA declarations were obtained from 700 plus declarants throughout the country. All the participants who participated in the feedback survey were extremely happy which was clearly seen from the 4.9 average points out of 5 obtained from the collective feedback from all the regions.
- CWCHDs resolved the queries of four new declarants and helped them for their registration using online declarations and for their initial declaration.
- CWC HD personnel belonging to all the CWCHDs participated in a webinar on the 28th of February 23 which was conducted by CRDF Global on "Evaluating Impact: Chemical Weapons Convention".
- 2023 commemorates the 30th anniversary of the signing of the Chemical Weapons Convention (CWC). However, in the past two decades, the world has seen examples of chemical weapons usage against civilians and for targeted assassinations by state and non-state actors. The discussion focused on the effectiveness of the CWC, why countries who have become the members of CWC are indulging themselves in using Chemical weapons, what is going to be the future of OPCW and whether the treaty and the implementing agency viz. the OPCW have lived up to the expectations of the stakeholders especially the Member states. The panelists discussed the legacy of CWC including the chemical weapons disarmament successes and its impact on establishing international chemical security norms. They discussed the limitations of CWC and the work still to be done to improve global chemical security.
- The Doha Regional Centre for CBRN Training and the Technical Secretariat of the National Committee for the Prohibition of Chemicals Weapons (NCPW) in collaboration with the Organisation for the Prohibition of Chemical Weapons (OPCW) organized a Seminar on "Chemical Weapons Convention" and "Chemical Safety and Security Management" for the member states of the OPCW in the Asia Region on 19-21 March 2023 at Doha, Qatar. The seminar was attended by 26 international participants from 18 OPCW Member States (Bangladesh, China, India, Indonesia, Iraq, Laos, Lebanon, Malaysia, Micronesia, Myanmar, Nepal, Oman, Pakistan, Palestine, Saudi Arabia, Thailand, Sri Lanka, and Vietnam) as well as several local participants from Qatar State. Mr. Dhruvil Soni, Officer –Sustainability, Environment, and Regulatory Issues, ICC represented India.
- Regional CWCHDs helped NACWC in identifying chemical industries for the Industrial Segment training for the participants of Associate Programme 2023. The consent received from the industries has been sent to NACWC. As soon as the communication is received from OPCW the trainings will be facilitated through NACWC.
- The HDs updated the regional database of declarant details. The updated database is sent to the NACWC on a quarterly basis. Mails sent to potential declaration units and potential declaration details are updated.

OPCW Review Conference; The Conference of the States Parties convenes a special session called the Review Conference (RC) every five years to examine the CWC's operation. The RC evaluates the Convention's implementation status and sets out priorities for the OPCW for the upcoming years. It provides strategic direction for the Organisation and ensures that it has adequate resources to deliver on all its core objectives. Review Conference was held from 15th to 19th May 2023.

- The HDs collected the opinions from various CWC declaring facilities in India on Scientific Advisory Board's (SAB) recommendations to the OPCW on the technological convergence especially on the use of Artificial Intelligence in Chemicals manufacturing process and in trade. The opinions were compiled and sent along with the opinions of the CWCHD in-charges to the NACWC. This would be included in the points of discussion of NACWC with the OPCW during the review conference.
- Indian Chemical Council (ICC) has been working closely with the National Authority for Chemical Weapons Convention (NACWC) for many years through its CWC Helpdesks to facilitate the submission of error-free declarations by the declaring facilities to the NACWC and to interface between the NACWC and the industries. Mr. Mukhmeet Singh Bhatia, IAS, has recently taken over the charge as Chairperson of NACWC, in the rank of Secretary, Govt. of India. Mr Bhatia visited the National Head Quarters of ICC, Mumbai on the 13th and 14th of June, 2023.

The objectives of his visit were the following:

- To understand the functioning of ICC
- To get detailed information on CWC, roles and responsibilities of CWC Helpdesks
- To understand the process of verification by OPCW
- To visit a CWC declaring facility and get first-hand information on their products, declaration and other relevant information with respect to verification measures.

- Secretariat made a presentation in detail about ICC and its activities. Dr. R. Narayanan briefed about the activities of CWC Help Desks. He spoke about the genesis of the CWC HDs, how the CWCHDs effectively function as the interface between the NACWC and declaring facilities in order to obtain the error free declarations and, to create a database of industries which are capable of producing CWC related chemicals. He added that the CWC Help Desk is a unique outreach model for disseminating the CWC awareness and for obtaining declarations.
- The Chairperson appreciated the ICC Secretariat for holding the meeting and the presentations made. He talked in brief about the role of CWC in chemical security and checked with ICC how they are contributing to the chemical security related matters apart from the CWC programmes. He appreciated the Responsible Care initiative and the Security Code implementation. He showed keen interest to know about all the partnerships ICC has with various academic industries and industry associations world-wide.



Amines and Plasticizers Ltd, were kind enough to accept the request for site visit of ICC officials along with Mr. Mukhmeet Singh Bhatia, IAS. Mr. Anurup Agarwal, President - Exports, of Amines and Plasticizers Ltd coordinated the visit.

Mr. Bhatia appreciated the co-operation and support rendered by the management team and the personnel of M/s Amines and Plasticizers Ltd., during his visit.

ICC sincerely thanks....

Ministry of Chemicals and Fertilizers.

Ministry of Environment, Forests & Climate Change (MoEF&CC)

Ministry of Commerce & Industry

Ministry of Petroleum and Natural Gas (MOP&NG)

Central Pollution Control Board (CPCB)

Bureau of International Standards (BIS)

State Pollution Control Boards

McKinsey & Company, Inc.

Avalon Consulting

ERM (Environmental Resources Management)

Intel India

Institute of Chemical Technology, Mumbai

Indian Institute of Technology Bombay

CSIR - National Chemical Laboratory (NCL), Pune

American Chemistry Council

Sandia National Laboratories

United Nations Environment Programme (UNEP)

Organisation for the Prohibition of Chemical Weapons (OPCW)

Department for International Trade (formerly UKTI, UK)

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NOTES

This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal grey lines across its entire width, providing a guide for handwriting or typing. The paper itself is a clean, off-white color.



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