



# As Published in Quarterly Journal of **The All India Glass Manufacturers' Federation**Bi-lingual

### SANDIP SOMANY TAKES OVER AS PRESIDENT OF FICCI FOR 2018-19



The Federation of Indian Chambers of Commerce and Industry (FICCI) has elected Mr. Sandip Somany, Vice Chairman and Managing Director, HSIL Limited as its President for 2018-19, after the conclusion of its 91<sup>st</sup> Annual General Meeting on December 14-15.

With this coveted industry acknowledgment, Mr. Somany will be working closely with Government and business leaders towards spearheading the country's economic growth and promote inclusiveness. He was previously working as the Senior Vice President, FICCI.

In the past, FICCI President Mr. Somany has held many industry leadership positions, including that of President of PHD Chamber of Commerce and Industry and President of International Chamber of Commerce India chapter (headquartered in Paris). He was also the Chairman of Indian Council of Sanitaryware Manufacturers (INCOSAMA) and a member of the Executive Committee of Governing

Council of The All India Glass Manufacturers Federation.

Mr. Somany is widely recognized as a pioneer of the Indian ceramic industry and has played an instrumental role in making it an organized industry. With more than three decades of industry experience, a penchant for anticipating market needs and a constant thrust on innovation, Mr. Somany has led HSIL's evolution from an Indian sanitaryware maker to a diversified home solutions company.

Expressing gratitude and talking about his vision for the industry, Mr. Somany said, "I am thankful for FICCI's vote of confidence in appointing me as the President. This position is a great opportunity as it will allow me to continue to work within FICCI to meet its objectives aligned with industries at large, and our country. I look forward to engaging with industry stalwarts and leaders to foster an ecosystem of innovation and growth, together building consensus between industry and policy."

Mr. Somany holds a degree from the prestigious University of California, USA and has a Bachelor's degree from the University of Delhi. He is an avid reader, keeps abreast of world's

political and economic news and is an adventure sports enthusiast.

Mr. Somany is also President of South India Glass Manufacturers' Association (SIGMA)- Hyderabad and owns glass manufacturing units in the name of 'AGI glaspac' under HSIL's Packaging Products Division (PPD).

#### **NEW ICG PRESIDENT**

The Council of the International Commission on Glass (ICG) elected Prof. Alicia Durán as its newest President for the period 2018-2021 at its meeting on Sept 25, 2018 in Yokohama, Japan.

Prof. Durán is a PhD in Physics and a Research Professor at CSIC, the Spanish Research Council. She has developed her entire professional career at the Institute of Ceramics and Glass (CSIC) being the leader of the Glass research group in the Department of Glass. She has also been Secretary of the Glass Section of the Spanish Ceramic and Glass Society for more than 25 years.

In 2002, she was appointed as Honorary Treasurer, which involved moving the ICG headquarters to Madrid. She continued in this position



ICG Ex-Presidents with the new President Prof. Alicia Duran (right)



until 2015, when she was elected Vice-President. Now she has become the President of the association. It is the first time that Spain has accessed this role in its 85 years, and Prof. Duran is the second woman to be awarded the role among the 25 Presidents of the association.

The new President has established as her main objectives: the promotion of Education through the ICG Summer School, ICG Winter School, and a new ICG North America School; continuing support for the initiative on Young Scientists and Technologists; and the reinforcement and promotion of the activities of the Technical Committees, accepted as the backbone of the ICG. As new objectives, she is promoting the ICG2030 project as the tool to adapt the structure of the association to the new challenges of the world of glass and will develop a new initiative for the Promotion of Women in the field of glass and in the ICG.

### BOOST FOR MAKE IN INDIA! SCHOTT TUBING INDIA TO FURTHER INVEST 20 MILLION EUROS

SCHOTT AG, a global pioneer in manufacturing pharmaceutical glass and packaging, has announced the launch of a new glass tank in its Indian manufacturing plant at Jambusar, Gujarat. The German technology group is further growing its production capacity through this new tank facility with a total investment of more than 20 million euros (approximately INR 180 crores). The investment comes at a time when the company is celebrating 20 years of operations in India.

The expansion is in response to the increasing demand for high-quality pharmaceutical packaging material in the global market. Construction work on the new tank facility has

already begun and is expected to be completed within 18 months. Production from the new tank is scheduled to begin by January 2020. The new glass tank facility will help fulfil the constantly growing demand of premium borosilicate glass tubing like FIOLAX® clear. It is used for high quality pharmaceutical packaging, especially vials and ampoules for India as well as for export markets.

Commenting on the role of India's growth in the pharma sector, in realizing SCHOTT Tubing's global ambitions Dr. Patrick Markschlaeger, Executive Vice President, SCHOTT AG, Business Unit Tubing shared, "The rapid development of the Indian pharmaceutical market requires a strong growth of highend pharmaceutical packaging and in consequence high-end pharmaceutical tubing. We estimate a market growth for premium packaging and therefore for tubing to continue on a very strong level in the coming years. In addition to the supply of the domestic market, SCHOTT Tubing India will also serve the strong growing Asian market outside of India and will therefore be an important hub for the Asian market."

Speaking on the relevance of SCHOTT's investment and employment opportunities, *Mr. Georg* 

Sparschuh: Managing Director, SCHOTT Glass India Pvt. India said, "We feel proud that SCHOTT's manufacturing journey is a resounding success story of "Make in India" campaign wherein not only world class products are manufactured for domestic and export markets, but also new talents are nurtured in the process. The new facility will help us increase the production capacity by an additional 50%. I am excited to announce that our investment in the new tank will provide jobs for 70 additional local workers, bringing the total count to 425".

Dignitaries including Maharani Radhikaraje Gaekwad of Baroda, Dr. Jürgen Morhard, German Consul General, Mumbai, Ms. Radhieka Mehta, Director, Indo-German Training Centre and Mr. Parthesh Vyas, Head, CII Vadodara graced the ground-breaking ceremony of the new tank facility.

Dr. Jürgen Morhard also shared, "SCHOTT Tubing India is one of the finest examples of bringing together the expertise of German technology and Indian skill force. I would like to congratulate all the employees of this plant, as it is their excellent performance which is driving this expansion of the company. SCHOTT has well showcased how foreign





manufacturing companies can partner with India to take the 'Make in India' campaign to the next level. I am confident that its approach will be followed by similar German companies who want to pursue business in India and further establish the city of Vadodara as a German industrial hub."

SCHOTT's India plant functions as a production hub for SCHOTT pharmaceutical tubing in Asia and produces the branded FIOLAX® pharmaceutical tubing. FIOLAX® glass exists since 1911 and provides an unprecedented quality standard in the industry through SCHOTT's perfeXion® process since 2017. perfeXion® stands for the transition from statistical quality control to 100% automated inspection of each individual FIOLAX® tube - based on big data. Hence, it is introducing Germany's Industry 4.0 to its Indian factory in the most effective manner.

Besides new production hall for the tank, SCHOTT will also build new construction for energy supply, workshops and warehouse. Additionally, there will be an expansion of storage for energy, engineering and logistics infrastructure within the plant. As part of the production network within SCHOTT's Tubing business unit, the new tank will be built and equipped with all latest state-of-the art machinery as used in all other tubing factories worldwide.

# GLASS INDUSTRY ATTENDS ICG CONFERENCE IN JAPAN

The ICG 2018 Conference in Yokohama, Japan had the theme of Innovations in Glass and Glass Technologies wherein 588 delegates from 29 countries attended the four-day event held from September 23-26, 2018.

The ICG Conference was run in

conjunction with the 59<sup>th</sup> Meeting on Glass and Photonic Materials together with the 14<sup>th</sup> Symposium of the Glass Industry Conference of Japan.

The first morning included two Plenary talks. Prof Akio Makashima spoke on the subject 'Scientifically really important or Technologically really important?' while Takuya Shimamura of AGC Inc., Japan spoke on 'The Past, Present and Future of Japan's Glass Industry – Its contribution to our Sustainable Society.'

The opening session was concluded by a talk from the winner of last year's Gottardi Award, Dr. Ashutosh Goel, of Rutgers University. This year's winner, Prof Shifeng Zhou of South China University of Technology, was unable to attend.

They were followed in turn by some 200 oral and 100 poster presentations.

The conference theme defined during the opening ceremony was further developed by four keynote speakers.

For the main programme, 60 invited speakers spoke on one of six subthemes: Glass Production Technology; Radioactive Waste; Glasses for Photonic Technologies; Electric and Magnetic Functions; Crystallisation and Glass Ceramics and Atomistic Views of Glass.

The short talk by a different younger glass technologist each day gave a feel for available career paths and how to approach job hunting. Students then

gathered in groups around an allocated table to discuss their thoughts and questions at a more personal level with an allocated mentor.

Of the delegates 376 were from Japan with 29 from China. Germany and the USA were close behind with 24 delegates each. A further 95 came from 17 European countries and 30 from other Asian countries while six were from Russia and four from Brazil.

ICG also held meetings of several of its committees and at the Council Meeting Prof. Alicia Duran was elected as its 25<sup>th</sup> President. The previous incumbent, Prof. Manoj Choudhary, had completed his term of office.

The final act of the conference was for the representatives of the American Ceramic Society to issue an invitation to all those present to participate in the 25<sup>th</sup> Triennial ICG Congress in Boston, USA, from June 9-14, 2019.

# ENVIROGLASS BATCH REFORMULATION PRESENTS SIGNIFICANT COST SAVINGS AND ENVIRONMENTAL BENEFITS

Leading specialists in glass, Glass Technology Services Ltd., have demonstrated that reductions in CO<sub>2</sub> emissions, combined with significant cost savings, may be possible for glass manufacturers through batch reformulation.





Carried out in partnership with Sheffield Hallam University, the EnviroGlass project proposed that substantial savings may be possible and has successfully demonstrated proof of concept for the substitution of raw materials with waste streams from other sectors - reducing energy demands, emissions and waste and contributing towards the circular economy.

In one amber glass example these waste streams could replace raw materials at up to 8 wt % while reducing furnace temperatures by up to 39°C. Further benefits included a reduction in  $NO_{\chi}$  emissions, refractory wear, landfill and transportation as well as a faster melting rate due to the form of elements in the wastes studied.

Across the wider float and container glass industry, potential benefits could amount to a reduction of more than 1,50,000 tonnes of CO<sub>2</sub> emissions and £5 million in energy costs in the UK alone.

In UK amber glass production this could equate to annual savings of over £5,00,000 in energy costs, combined with a 35 GWh/year reduction in energy demand and a 42kT/year reduction in CO<sub>2</sub> emissions. Across the wider float and container glass industry, potential benefits could amount to a reduction of more than 1,50,000 tonnes of CO<sub>2</sub> emissions and £5 million in energy costs in the UK alone.

Glass Technology Services routinely work with manufacturers to troubleshoot and optimise batch and melting operations, but the EnviroGlass project set out specifically to investigate the challenges identified within the glass industry's 2050 decarbonisation road map and identify cost-effective routes to achieving decarbonisation.

In partnership with Sheffield Hallam University (SHU), Glass Technology Services secured a grant of £1,56,645 for this work under the Energy Catalyst Initiative from Innovate UK - the UK government's innovation agency. The British Glass Environmental Steering Group awarded a further £30k to support the project and to cover some of the additional costs incurred in carrying out the project.

If you are working in the glass, energy from waste or combustion technology sectors and would like to be involved in the next phase of the project, EnviroGlass 2, please contact Glass Technology Services Ltd., on enquiries@glass-ts.com

For further details of this project, please visit <a href="https://www.glass-ts.com/projects/enviroglass-decarbonisation-and-batch-reformulation">www.glass-ts.com/projects/enviroglass-decarbonisation-and-batch-reformulation</a>

### VISITORS STUNNED BY WORLD'S LARGEST GLASS PANEL AT GLASSTEC 2018 IN DÜSSELDORF, GERMANY

Oversized glass was taken to the next level at the Eastman exhibit during the 25th anniversary of glasstec, the largest international glass trade fair that ran from October 23-26, 2018 in Düsseldorf, Germany. Eastman Chemical Company, manufacturer of Saflex® product glazing solutions for architectural and automotive applications and the Vanceva® Color System for laminated glass, offered visitors a real showstopper with the world's largest laminated heatstrengthened glass panel made with Saflex Structural PVB interlayer at 18m long and 3.22m high.

The glass panel was so large a special truck from Saint-Gobain was required for transport from eastern Germany and installation at the Messe Düsseldorf. With the help of two cranes and numerous suction cups,

the oversized pane was secured into place with dowels. The glass, together with its steel base, weighs nearly four tons.

Due to its show-stopping popularity, Eastman plans to install the glass at its Ghent South Production Plant (Eastman, Ottergemsesteenweg-Zuid 707, 9000 Ghent, Belgium) before the end of the year. It will be placed next to the Customer Service Lab, easily accessible for customer visits.

"We hope that this installation inspired our visitors," says Mr. Kevin Moens, Global Commercial Director Architecture – Advanced Interlayers at Eastman. "Since this type of glass can be used to achieve an open, airy aesthetic and a smooth transition between interior and exterior spaces, architects at the show were imagining all sorts of design possibilities."

Eastman's enormous laminate pane is comprised of two 12mm high-quality, heat-strengthened, low-iron glass panes laminated with 1.52 Saflex Structural PVB interlayer. It is 40 percent larger than a glass panel made with conventional PVB\*.

\*When calculated to DIN 18008, wind load 0,5 kN/m2, line load 0,5 kN/m.

The spectrum of construction applications where glass panes can be used is extensive including commercial and office buildings, museums, exhibition halls and conference centers, hotels, restaurants, as well as residential buildings.

With such a large format, there can be time and cost efficiencies with the production and assembly of one oversized panel versus multiple smaller panels. Architects and designers have unlimited design flexibility, especially when paired with Vanceva Illusion White or VancevaColor Interlayers.



Members participated in the Executive Committee Meeting on Dec I at Hyderabad and signed petition to use Glass every day and every moment in tune with Swachh Bharat Abhiyaan (clean India campaign). The meeting was hosted by AGI glasspac (HSIL's Packaging Products Division) and South India Glass Manufacturers' Association (SIGMA)- Hyderabad.









# **Membership of the Federation**

Members of the Federation are classified into two categories; manufacturers of primary glass articles are enrolled as Ordinary Members of the Federation and suppliers to glass industry viz., suppliers of machinery, raw materials, consultants and others connected with glass industry are enrolled as Affiliate Members.

Foreign Companies supplying machinery etc., to glass industry are also enrolled as Affiliate Members.

Membership forms can be downloaded from www.aigmf.com/membership.

Members of the Federation are enrolled on the recommendation of Zonal Associations viz.:

- Eastern India Glass Manufacturers' Association (EIGMA)
- Northern India Glass Manufacturers' Association (NIGMA)
- South India Glass Manufacturers' Association (SIGMA)
- Uttar Pradesh Glass Manufacturers' Syndicate (UPGMS)
- Western India Glass Manufacturers' Association (WIGMA)

#### **ADMISSION FEE / ANNUAL SUBSCRIPTION**

#### **Ordinary Members:**

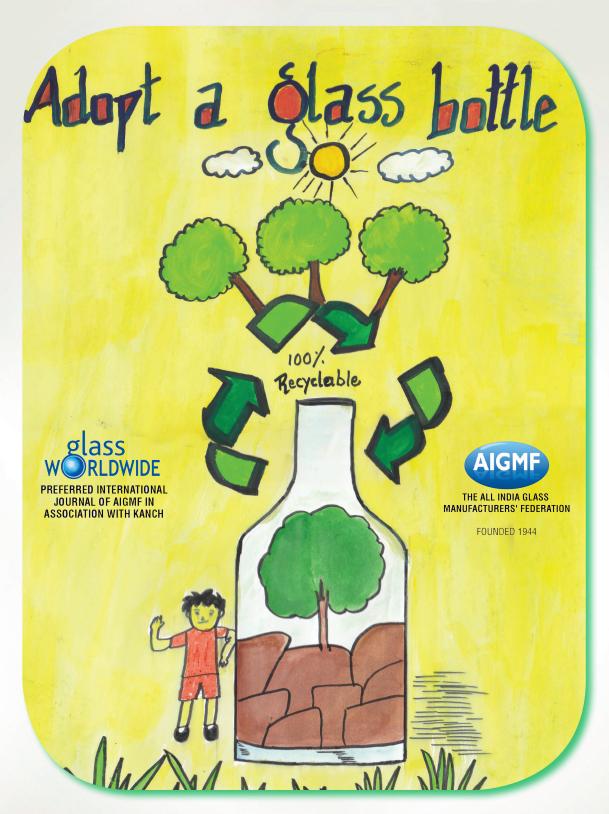
- Admission fee ₹ 5000/-
- Annual subscription: Single Unit: ₹27,500 + GST as applicable
- More than one Unit: ₹ 1,10,000 + GST as applicable

### Affiliate Members:

- Admission fee ₹ 5000/-
- Annual subscription: ₹ 11,000 + GST as applicable
- Applicants for enrollment for a period of five years may pay a consolidated amount of ₹49,500 (including admission fee) + GST as applicable

#### Affiliate Members from countries other than India:

- Admission fee US \$ 200
- Annual subscription: US \$ 440 + GST as applicable
- Applicants for enrollment for a period of five years may pay a consolidated amount of US \$ 1650 (including admission fee) + GST as applicable ■







Glass is **Inert** and wholly **Recyclable** 





Contents in glass bottle **Cools Faster** and is **Refreshing** 

# THE ALL INDIA GLASS MANUFACTURERS' FEDERATION

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### FEVE, FERVER, EXPRA AND EURIC JOIN FORCES **FOR AN AMBITIOUS AND COMPARABLE MEASUREMENT** POINT FOR GLASS RECYCLING

FEVE, FERVER, EXPRA and EuRIC are committed to increasing the quality and efficiency of the glass recycling value chain through separate collection, quality recycling and closed loop manufacturing of glass. To help achieve this, a single, harmonised, ambitious and enforceable calculation methodology for the reporting of glass recycling in all Member States is needed.

All material streams should have an equal level of ambition when reporting recycling rates, regardless of the complexity of different recycling value chains. In the case of glass, FEVE, FERVER, EXPRA and EuRIC have a common understanding that the measurement point is at the input to the cullet treatment plant, as this is the "recycling operation" where waste is "actually reprocessed into products". They also take the ambition further and propose that non-glass losses and non-targeted materials should be deducted.

"We are delighted to have such a strong partnership calling for comparable and ambitious reporting on glass recycling" stated Ms. Adeline Farrelly, Secretary General of FEVE. "Measuring real recycling will drive local implementation of high quality separate collection for glass".

FEVE, FERVER, EXPRA and EuRIC also recommend maintaining a clear and consistent legal framework between End-of-Waste the Regulation, the EU Waste Framework Directive and the EU Packaging and Packaging Waste Directive, which supports an ambitious and comparable implementation of the reporting.

"The measurement for point

reporting on recycling rates in the Directive clearly refers to the actual reprocessing into products, materials and substances and must therefore be consistent with the EU end-of-waste criteria established for glass" insisted Mr. Baudouin Ska, Secretary General of FERVER. Mr. Emmanuel Katrakis, EuRIC Secretary General, further emphasized that "it is key to show that the entire glass sector agrees on a single, robust and harmonised point of measurement for glass recycling which supports end-of-waste criteria and will further drive quality along the value chain".

The European Commission is still to finalise implementing legislation establishing rules for the calculation, verification and reporting of data for verifying compliance with the recycling targets set in the Waste Framework Directive and in the Packaging & Packaging Waste Directive. EXPRA's Managing Director, Mr. Joachim Quoden, commented: "We strongly welcome a uniform definition for the measurement of recycling and believe that recycled waste should be measured at the gate of the recycling plant as the data can only be ascertained until the plant's gate, in order to deliver fair and reliable statistics. We welcome the initiative by the glass sector to agree on the "recycling operation", which is crucial in this respect".

FERVER is the association of glass recycling companies in Europe, its members are spread over 19 countries and recycle more than 70% of the glass collected in Europe. www.ferver.eu

FEVE is the Federation of European manufacturers of glass containers and machine-made glass tableware. Its members produce over 20 million tonnes of glass per year. The association has some 60 corporate members belonging to approximately 20 independent

corporate groups. Manufacturing plants are located across 23 European States and include global blue chip and major companies working for the world's biggest consumer brands. www.feve.org

**EXPRA** (The Extended Producer Responsibility Alliance) is the organisation for packaging and packaging waste recovery and recycling systems which are owned by the obliged industry and work on a not-for-profit or profit not for distribution basis. EXPRA acts as the authoritative voice and common policy platform representing the interests of its members, which are all founded and run by or on behalf of the obliged industry. www.expra.eu

EuRIC: Through its Member Recycling Federations from 20 EU and EFTA countries, EuRIC represents today over: 5,500+ companies generating an aggregated annual turnover of about 95 billion €, including large companies and SMEs, involved in the recycling and trade of various resource streams; 300,000 local jobs which cannot be outsourced to third EU countries; An average of 150 million tons of waste recycled per year (metals, paper, plastics, glass and beyond). www.euric-aisbl.eu/

### SUPPORTING INNOVATION IN **GLASS – CONGRATULATIONS TO PILKINGTON UK**

Leading independent specialists in glass, Glass Technology Services Ltd., (GTS), are proud to support research and development across the glass industry and its supply chain and were honoured to sponsor the 'Innovative Solution' category of the glass industry's Glass Focus 2018 awards.

Congratulations to Pilkington UK, who were announced as the winners of the 'Innovative Solution' award at the Glass Focus 2018 dinner and awards ceremony organised by British Glass on Nov 22, 2018. Pilkington UK received the award for their Pilkington AviSafe<sup>™</sup> development - an



innovative coated glass which aims to prevent occurrence of bird/window strikes.

Developed by Pilkington's UK-based research and development technology centre, Pilkington AviSafe™ utilises a patterned UV-enhanced coating to make the glass visible to birds while maintaining the optical transmission of the glass.

Mr. Simon Slade, a keen ornithologist based at the R&D Technical Centre, was a key driving force behind the project and described the issue:

"Millions of birds die each year when they fly into glass in homes, offices, and bus shelters. This is a growing challenge for the glass industry, architects and specifiers.

Reflection strikes, when birds fly toward something reflected by the glass such as the sky or vegetation, are the main cause of the problem: some existing products are effective, but reduce the transmission of the glass and the view from inside the building."

Although Pilkington AviSafe™ has not yet been commercially released, it has been tested on jumbo plates of glass

security, and noise control.

Mr. Philip Marsh, Business Development Manager at Glass Technology Services Ltd., presented the award on the night and said:

"As a partner across a wide range of glass R&D, we were delighted to sponsor this award and recognise the importance that continual innovation in glass plays in the modern world - from architecture, eco-design and packaging to medical devices, technology and energy.

Congratulations to Pilkington UK on this innovation, which through research comparing human and avian vision in the visible and ultraviolet spectrum enabled a patterned coating to be developed and applied to the glass that is visible to birds without any significant detriment to the aesthetic properties of facades and glazing."

Glass Technology Services Ltd., (GTS) is a leading provider of analysis, mechanical and performance testing, quality assessment, failure analysis, glass research and development and a range of consultancy services - specialising in glass, raw materials and glass products. Accredited to

specialist knowledge in glass and technical support. Please see <a href="https://www.glass-ts.com">www.glass-ts.com</a>

GTS provide regular updates and research news through its website, social media and newsletter – to receive updates or interact through social media, please see <a href="https://www.glass-ts.com/newsletter">www.glass-ts.com/newsletter</a>

## PIRAMAL GLASS IMPROVES EFFICIENCY WITH REAL-TIME INSIGHTS; LOWERING TCO BY 70% WITH MICROSOFT AZURE IOT

Piramal Glass, a global specialist in design, production, and decoration of glass packaging (flaconnage) solutions for Pharmaceutical, Cosmetics & Perfumery, and Specialty Food & Beverage industries, has deployed Microsoft's Azure IoT platform to digitally transform its manufacturing operations. An early adopter of the technology, Piramal Glass has currently implemented the solution, Real-Time Manufacturing Insights (RTMI), on 46 production lines across their four plants at Kosamba and Jambusar in Gujarat, India, Sri Lanka and the United States of America. The plants have an overall capacity of 1375 tons per day, with 12 furnaces and 60 production lines, all of which run on a 24/7 basis.

Piramal Glass has leveraged IoT to get real-time visibility into its line manufacturing operations and to analyze production line losses at various stages. Using Azure IoT Hub, Microsoft helped Piramal Glass acquire data from sensors on production lines to identify quality parameters at each stage and get insights on line efficiencies in real-time. This resulted in improved production efficiency and cost reduction up to 70% as compared to a glass industry manufacturing execution system (MES).



and Pilkington expects the coating to be applied in other applications including solar control, safety and ISO/IEC 17025 and ISO 9001 quality standards, Glass Technology Services has an established reputation for



Mr. Vijay Shah, Director - Piramal Glass & Executive Director - Piramal Enterprises Ltd., said, "As the world's most preferred supplier of glass packaging solutions, Piramal Glass is committed to continuously adding value to its customers. We are happy to have collaborated with Microsoft on our journey towards digital transformation and business critical future readiness. Glass manufacturing is a complex process with many variables. interactive Combining digital technologies with precision high-quality glass manufacturing, has helped us fortify our accelerated growth path."

The Azure IoT platform enabled Piramal Glass to connect and monitor their equipment to gain real-time visibility into operational data that was previously unavailable. The technology integration was designed for fast and easy set-up to rapidly showcase the results and build on its existing sensors, equipment, systems, and data.

Mr. Sashi Sreedharan, Managing Director. Microsoft India. "Microsoft is committed towards the technological advancement of the manufacturing sector in India. We are excited to partner with Piramal Glass as they create a strong foundation for driving transformational change. It is significant that Microsoft technology enabled plant operations to continue as usual during the rollout of the Azure IoT solution, ensuring no disruption to the core manufacturing and deep integration with critical business processes."

To facilitate this transformation, Precimetrix, a Microsoft partner, brought in its Plant Monitoring System hosted on Microsoft Azure. The sensors on high speed conveyor lines were interfaced with data acquisition devices that record the key metrics, as the bottles move along the production line. This data is aggregated on an edge gateway and then pushed to Precimetrix's Plant Monitoring System on the cloud.

A custom solution was developed on top of this platform to provide stagewise losses, production reports, quality control workflows as well as role-specific KPIs on PCs and smartphones of plant personnel. Actionable alerts are sent through SMS, email and push notifications whenever there is an anomaly detected or the production efficiency drops. In summary, RTMI has democratized real-time information availability to all plant stakeholders, enabling them to take faster decisions.

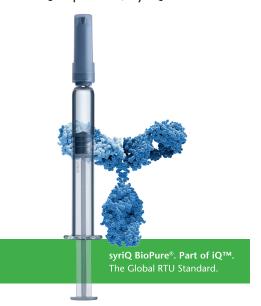
Piramal Glass is the largest specialty glass player in Asia and has been the fastest growing glass company in the world for over a decade. The company

is the only significant player from Asia with a strong presence in the premium segment. It has progressed rapidly on its Digital Transformation journey and has made substantial investments in IoT as well as other digital technologies. While many of its digital initiatives started as experiments, a number of these have been scaled up, namely, computer vision to improve worker effectiveness, persuasive technologies to drive innovation, bots to enhance employee productivity & Al to create a manufacturing process Digital Twin.

IoT has reached an inflection point and is helping businesses improve operational efficiency and generate new business models from their existing assets and equipment. Microsoft believes that in the coming years, this will be the new normal across all industries and that companies will need to leverage IoT to maintain competitive advantage. Piramal Glass is committed to fast tracking its journey towards Industry 4.0 by leveraging Microsoft's endto-end IoT platform & Cognitive Services.

## SCHOTT KAISHA BRINGS NEW PORTFOLIO OF HIGHLY CUSTOMIZABLE PREFILLABLE GLASS SYRINGES TO INDIA

SCHOTT KAISHA has launched a highly specialized glass syringe portfolio in India, that further minimizes the risk of drug/container interactions for sensitive drugs. As part of its German partner SCHOTT's  $iQ^{TM}$  platform, syriQBioPure® is a



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hugely customizable glass prefillable staked-needle syringe (PFS) specifically designed to keep sensitive drugs stable over shelf life and shorten time to market while making administration more convenient for patients.

Complex biotech drugs always face a threat of interacting with their container system. These interactions cannot be predicted and can lead to unintentional aggregation or deterioration of the drug which may eventually compromise the total cost of ownership, shelf life of the drug and treatment efficiency.

Mr. Rishad Dadachanji, Director, **SCHOTT KAISHA** shares, "The syriQBioPure® syringes, manufactured in St. Gallen, Switzerland, combine features to ensure stability and safe administration of sensitive drugs. Our clients often work with complex biologicals that require an extremely reliable PFS solution. We are happy with the response that this offering is receiving from our existing and potential clients."

A Quality by Design approach, benchmark manufacturing and quality control processes using breakthrough inspection technology, combined with best-in-class components has established syriQBioPure® as a preferred container solution globally. Its application has proven to be beneficial in achieving:

- Ultra-low tungsten residuals (ICP-MS certificate available)
- Uniform silicon layer
- Low adhesive residuals
- Low E&L from latest high-quality elastomer formulations

The new glass syringes work with leading safety and autoinjector devices, meeting market demand for products that can be administered at home for seamless patient comfort.

## HSIL TO SET UP RS 350CR GLASS CONTAINER UNIT IN CUTTACK

HSIL Ltd., has proposed to set up a Rs. 350 crore manufacturing unit for glass containers at Cuttack.

The plant would have a capacity of 1,30,000 tonnes per annum and is expected to create direct and indirect employment for over 1,200 people.

Odisha's State Level Facilitation Cell has already recommended the proposal to State Level Single Window Clearance Authority for approval, the official said.

For Odisha government's Single Window for Investor Facilitation and Tracking (GO-SWIFT), a web portal for doing business in the state, it was the 500th investment proposal.

"It is encouraging to note that within a short span of one year, GO-SWIFT has received the 500<sup>th</sup> investment proposal," said Industries Secretary Mr. Sanjeev Chopra.

# घर बैठे 59 मिनट में मिलेगा एक करोड़ तक ऋण

फिरोजा़बाद-एमएसएमई योजना के तहत केद्रीय ग्रामीण एवं किसान कल्याण मंत्री कृष्णा राज, विशिष्ट अतिथि; सूबे में कैबिनेट मंत्री प्रो. एसपी सिंह बघेल; प्रभारी मंत्री नीलकंठ तिवारी ने सीएलपी (कांट्रेक्ट लैस लेडिंग प्लेटफार्म) योजना का शुभारंभ किया।

भारतीय स्टेट बैंक की अग्रणी बैंक शाखा द्वारा आयोजित कार्यक्रम में मुख्य अतिथि केंद्रीय ग्रामीण एवं किसान कल्याण मंत्री कृष्णा राज ने कहा देश के प्रधानमंत्री 100 शहरों में एमएसएमई का शुभारंभ करने जा रहे हैं। पहले उद्यमियों को ऋण लेने के लिए बैंकों के चक्कर काटने पड़ते थे। अब सीएलपी योजना में ऑनलाइन आवेदन करने के मात्र 59 मिनट में ऋण स्वीकृत हो जाएगा।

उन्होंने कहा कि फिरोज़ाबाद का कांच उद्योग लगातार तरक्की करे, इसके लिए भी सरकार कार्य कर रही है।

कार्यक्रम में सदर विधायक मनीष असीजा, शिकोहाबाद डा. मुकेश वर्मा, डीएम नेहा शर्मा, सीडीओ नेहा जैन, एडीएम अतुल सिंह, एसडीएम सदर देवेंद्र सिंह, सीएमओ डा. एसके दीक्षित, एसबीआई के महाप्रबंधक प्रभात कुमार मिश्रा, एलडीएम एसके खंडलेवाल, उपायुक्त उद्योग शरद टंडन, सहायक श्रमायुक्त राजीव कुमार सिंह, प्रदूषण बोर्ड के प्रभारी अधिकारी पीपी श्रीवास्तव, उद्यमी देवीचरन अग्रवाल, हेमंत अग्रवाल, राजकुमार शर्मा, राजीव अग्रवाल, दीपक जैन मुख्य रुप से उपस्थित थे।

# एचएसआईएल की कटक में 350 करोड़ रुपये निवेश से शीशे के कंटेनर बनाने का संयंत्र लगाने का प्रस्ताव

एचएसआईएल लिमिटेड ने ओडिशा के कटक में शीशे के कंटेनर बनाने के लिये 350 करोड़ रुपये के निवेश से विनिर्माण संयंत्र बनाने का प्रस्ताव दिया है। राज्य सरकार के सूत्रों ने इसकी जानकारी दी। इस संयंत्र की क्षमता सालाना 130000 टन की होगी और इससे 1200 लोगों को प्रत्यक्ष एवं अप्रत्यक्ष रोजगार मिलेगा। अधिकारी ने कहा कि ओडिशा के राज्य स्तरीय सुविधा प्रदाता प्रकोष्ठ ने राज्य स्तरीय एकल खिड़की स्वीकृति प्राधिकरण को इस प्रस्ताव की सिफारिश की है ■

(News Source: AIGMF Research Team/World Wide Web)



### The All India Glass Manufacturers' Federation

# **How can India become Glass Capital of the World?**

and Executive Committee Meeting to be held on Feb 22, 2019

at

Marigold Conference Room, The Gateway Hotel Vadodara, Akota Gardens, Akota, Vadodara - 390 020 (Meeting is hosted by Piramal Glass Ltd.)

	, ,
1100 hrs	Tea/Coffee
1120 hrs	Welcome address by:
	- Mr. Sanjay Tiwari (Ex Com Member; Chief Operating Officer - Piramal Glass Pvt. Ltd.,
	India and CEO & Managing Director - Piramal Glass Ceylon Plc, Sri Lanka)
	- Mr. Raj Kumar Mittal (President AIGMF)
1130 hrs	How can India become Glass Capital of the World?
	- PPT by Mr. Rajesh Khosla (Ex Com Member and President AGI glasspac)
	- PPT by other speakers
	- Open Discussion
	- Q & A
	- Way forward
1330 hrs	Lunch
1430 hrs	AIGMF Executive Meeting (for AIGMF members only)
1600 hrs	Wrap-up

Participation is free but pre-registration is must for non-members
 Interested stakeholders may send their consent of participation at info@aigmf.com

# THE 11<sup>th</sup> WORKSHOP FOR NEW RESEARCHERS IN GLASS SCIENCE AND APPLICATION



# GLASS FORMATION, STRUCTURE, AND PROPERTIES

#### HAZARDOUS WASTE VITRIFICATION

#### MONTPELLIER (France), 8th-12th JULY 2019

The workshop will be composed of two interwoven threads.

The first thread will overview fundamentals in glass science emphasising structure-property relationships, experimental techniques, material simulations and tools that probe structure. Specific properties and applications will be discussed e.g. optical behaviour, transport phenomena, nucleation and crystallisation, and strength.

The second thread this year will focus on glasses for hazardous waste immobilization, to echo the importance of the nuclear industry and other significant areas of waste disposal. Attention will be given to glass formulation and structure, long-term corrosion behavior, as well as melting technologies for nuclear waste glasses.

The lecturers will be world experts in their fields. A significant aspect of the workshop will be student-centred projects that will help participants to develop their understanding by applying what they know to specific issues.

Organization: Prof. J. M. Parker, University of Sheffield, UK
Prof. B. Hehlen, University of Montpellier, France
Prof. R. Conradt , uniglassAC GmbH Co., Germany
Dr. O. Pinet, CEA-Marcoule, Bagnols-sur-Cèze, France

#### Is this for you?

If you are a new PhD or Masters student or have recently started research in the glass industry then the answer is yes.

- Normal fee: 900 €

- Reduced fee: 350 € for students and academic staff.

The fee includes 2 coffee breaks and a lunch per day, a welcome reception and conference dinner.

- Lodging and meals : 250 €

The fee includes 6 nights lodging with breakfast in a student residence at the University. Final date for lodging reservation is 15/05/2019.

- The textbook of the Montpellier summer school (recommended) : "Teaching Glass Better": 45 € (10% discount)

A more complete programme will appear soon on the ICG web site (www.icglass.org)

Pre-registration: Deadline 15 / 04 / 2019
By simple email to: verres2019@mycema.fr
Registration: Deadline 15 / 05 / 2019

Participants will be limited to: 30 (Glass Science) & 20 (Glass Applications)







# January - March 2019 Issue

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