

# GLASS News



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Bi-lingual

## PHILIPPE BASTIEN IS THE NEW CHAIRMAN OF GLASS FOR EUROPE



After joining AGC Glass Europe, formerly Glaverbel, in 1992, Mr. Philippe Bastien has covered several managerial positions from financial control to general management, through to marketing, business development and R&D. AGC Glass Europe produces, processes and distributes flat glass for the building, automotive and numerous other sectors such as transport, solar power and high-tech applications. It has over 100 sites throughout Europe, from Spain to Russia, and employs around 16,500 employees.

*"I am honoured to take on this Chairmanship role and I realise responsibilities that now fall upon me in these difficult times. With the spread of COVID-19, the flat glass industry is reacting quickly to ensure the health of all its workers, while we must safeguard the integrity of our industrial operations."* said Mr. Bastien.

For the weeks and months to come, Glass for Europe will engage with

European authorities on creating the conditions for a rebound in activity in the glass and glazing sector once the health crisis is over. It will require a massive macro-economic stimulus, which should be in line with Europe's climate ambitions and the need to launch a 'building renovation wave.'

In January 2020, Glass for Europe released its 2050 vision on Flat glass in Climate-Neutral Europe. This comprehensive work, which offers a pathway for the sector to maximize contributions to climate neutrality, is more than ever topical. *"An efficient post-crisis stimulus package will be required to support the flat glass sector and it must be climate-compatible: a massive renovation of ageing buildings with high-efficiency glazing, support for clean mobility transition and increase in the share of solar energy"* said Mr. Bastien.

## GPI PRESIDENT SCOTT DEFIFE TO LEAD GRF'S EXECUTIVE BOARD



Mr. Scott DeFife, President of the Glass Packaging Institute (GPI), the trade association representing the

North American glass container industry, was named President of the Glass Recycling Foundation's (GRF) Executive Board. The Glass Recycling Foundation, a non-profit organization, provides and raises funds for localized and targeted assistance, demonstration, and pilot projects that address gaps in the glass recycling supply chain across the United States.

GRF's vision is to increase recycling through sustainability education and best practices to ensure the maximum benefit for communities and the environment.

*"I am honoured to serve as President of GRF's Executive Board,"* said Mr. DeFife. *"I am grateful for the time and talent that Ms. Lynn Bragg contributed to the Board and thank her for her years of leadership. I look forward to continuing her work and driving forward GRF's mission to promote and preserve glass recycling across America. GPI and GRF already work closely together to address gaps in the glass recycling supply chain and increase glass recycling access through education and industry collaboration. I am eager to continue building upon this important work."*

Mr. DeFife takes the helm as Board President just as GRF has received the foundation's first \$50,000 to its endowment. Owens-Illinois (O-I) Charities Foundation and Diageo North America each donated \$25,000 to support the GRF through pilot projects leveraging best practices to improve glass recycling.

## CONTAINER GLASS TO REDUCE CO<sub>2</sub> BY 50%

The 'Furnace of the Future' is

a fundamental milestone in the industry's decarbonisation journey towards climate-neutral glass packaging. It will be the first large-scale hybrid oxy-fuel furnace to run on 80% renewable electricity in the world. It will replace current fossil-fuel energy sources and cut CO<sub>2</sub> emissions by 50%.

For the very first time, the industry has adopted a collaborative approach where 20 glass container producers have mobilised resources to work on and fund a pilot project to prove the concept.

*"We are extremely proud to announce this joint-industry project",* comments Mr. Michel Giannuzzi, President of FEVE. *"The hybrid technology is a step-change in the way we produce and will enable us to significantly reduce the carbon footprint of glass packaging production. The move marks an important milestone for the glass sector in implementing our decarbonisation strategy".*

The industry already works with electric furnaces in several of its 150 glass manufacturing plants across Europe, but they are small scale and exclusively used to produce flint (colourless) glass with virgin raw materials, therefore using very little or no recycled glass content. With this new technology, the industry will be able to produce more than 300 tonnes per day of any glass colour, using high levels of recycled glass.

Ardagh Group – the second largest glass packaging manufacturer in the world – has volunteered to build the furnace in Germany. It will be built in 2022, with an assessment of first results planned for 2023.

*"With this new technology we are embarking on the journey to climate-neutral glass packaging, and ensuring the long-term sustainability*

*of manufacturing",* states Mr. Martin Petersson, CEO of Ardagh Group, Glass Europe. *"We aim to demonstrate the viability of electric melting on a commercial scale, which would revolutionise the consumer glass packaging market".*

Bringing the 'Furnace of the Future' to life is an extremely ambitious project requiring significant financial and human resources and a wide range of expertise. For this reason, the industry has committed to work together. By adopting a sectoral approach, it also intends to gain the support of the European Commission through the ETS Finance for Innovation Fund Programme. Despite its key importance, this project is not the only one the industry is working on. Other pathways towards clean production technologies and climate-neutral glass packaging are already implemented and others are also being explored.

### **SCHOTT INCREASES SALES IN INDIA AND PLANS RECORD INVESTMENTS**

SCHOTT AG has continued on its growth course in fiscal year 2018/19 (Oct 1, 2018 to Sep 30, 2019). Its key financial figures developed positively or remained at a solid level from previous year.

*"We are pleased with the past fiscal year. We were able to meet our forecasts from last year and continued the positive business development of previous years despite the difficult global economic situation,"* emphasised Dr. Frank Heinrich, Chairman of the Board of Management, at the Annual Results Press Conference.

The international technology group managed to increase its sales by 5.1% to around EUR 2.2 billion. The operating result (EBIT), which now stands at EUR 275 million, also improved at a consistent rate,

resulting in a consolidated net profit of EUR 206 million. Business with special glass tubing for pharmaceutical packaging and the ampoules, vials, syringes and cartridges produced from it, contributed substantially to the successful year.

Investments in property, plant and equipment amounted to EUR 257 million in the fiscal year, an increase of 38% over the previous year. Internationally, the largest investments in the fiscal year went to sites in India and China. More than EUR 21 million (INR 165 crores) was invested into a new tank facility at the Gujarat manufacturing plant, which supplies the supreme quality FIOLAX® glass tubing for pharmaceutical packaging.

At the presentation of the annual results, CFO Dr. Jens Schulte pointed out that the equity ratio had remained at a solid level of 32%. *"The company is thus in a strong financial position and has sufficient scope to achieve organic growth as well as make acquisitions,"* he noted. The global number of employees rose to 16,200.

Record investments in India are also a result of exceedingly positive sales in the Asian market. India alone saw sales of approximately INR 388.6 crores (EUR 49.5 million) – an increase of 18%. Key growth drivers for India were SCHOTT's Tubing, Pharma-Packaging and Flat Glass for Cooking.

Sharing his views on growth of the tubing and pharma packaging segment, Mr. Georg Sparschuh, President SCHOTT Glass India, shared, *"With our Indian growth activities, we aim to further strengthen the local industry and the government's goal of making India a global pharmaceutical hub. We have committed to invest about EUR 51 million (INR 400 crores) in our Gujarat manufacturing plant from 2018 till this year, in order to further cater*



to the expanding domestic and Asian markets.”

In addition, SCHOTT also entered the Indian smartphone market last year. Its premium cover glass Xensation® Up., was introduced in the country as part of the new range of vivo premium smartphones.

After getting off to a good start in the first three months of its new fiscal year, SCHOTT expects sales to increase by between 3% and 6% for the year as a whole. The technology group expects impetus to come, among other areas, from demand for specialty glass for pharmaceutical packaging and ultra-thin glass for the foldable mobile devices of the future.

In fiscal year 2019/2020, SCHOTT plans to invest EUR 320 million, the highest amount in the company’s history. Main international focus will remain on capacity expansions in the pharmaceutical packaging business in India and China.

To achieve this, the expansion of production capacity in the existing India plant aims to further strengthen its output by mid-2020. SCHOTT has committed additional investments of EUR 28 million for another tank facility which will be operational this year. With the new production facility, the plant’s capacity will be doubled, allowing the group to produce its highly specialised FIOLAX tubing material for both domestic and export demands.

At the same time, SCHOTT intends to intensify its efforts to protect the environment and the climate. “With a view towards responsible and sustainable further development, we have set ourselves a clear goal: We want to make SCHOTT a climate-neutral

company. During this fiscal year, we will set the course for this and consistently take the appropriate measures,” said Dr. Heinrich, Chairman of the Board of Management.

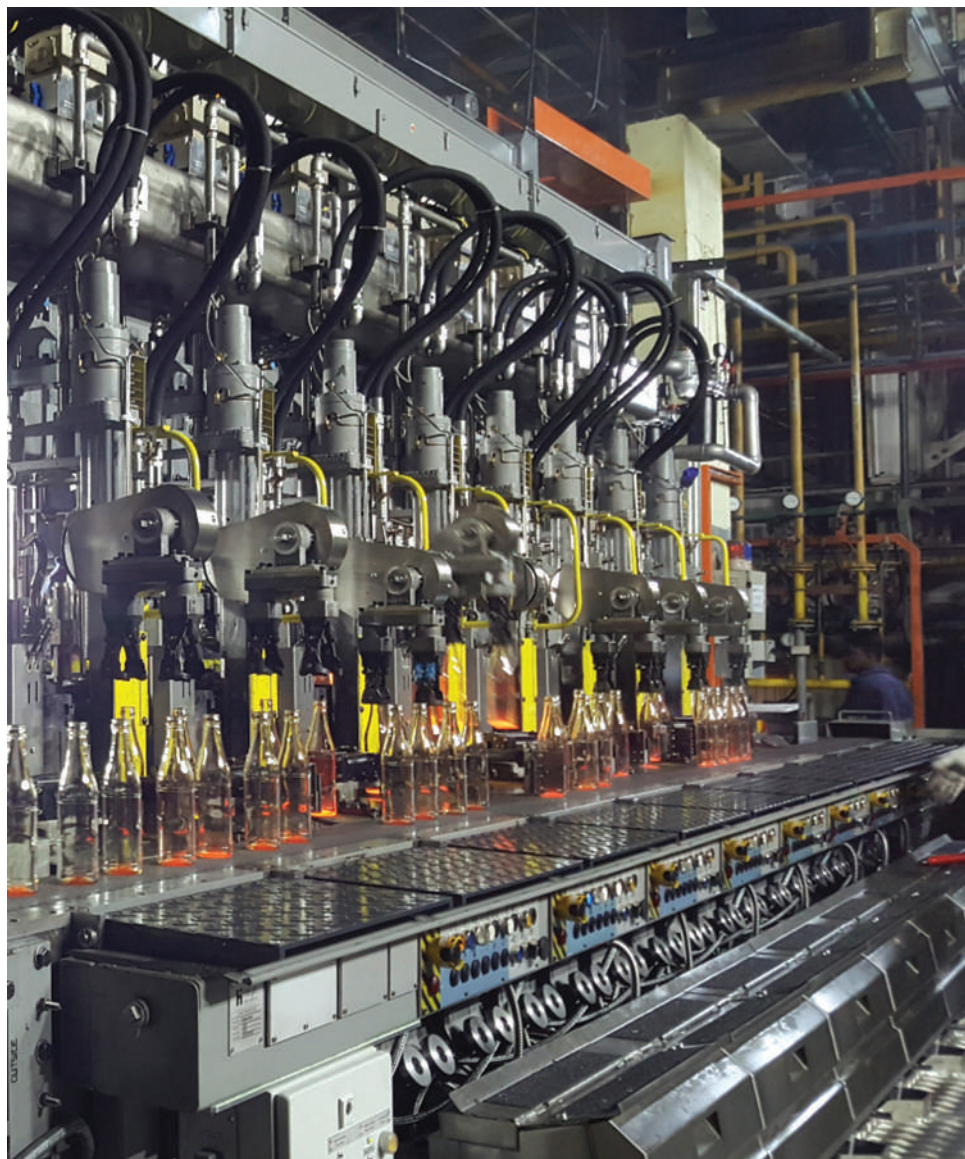
### **MALAYSIAN GLASSMAKER BENEFITS FROM HEYE PRODUCTION EXPERTISE**

Advanced hot and cold end technologies from Germany’s Heye International are helping Jg Containers (Malaysia) Sdn Bhd to maximise glass container production yields at the customer’s Klang glassworks in Selangor. Located close to Kuala Lumpur, Jg Containers has been making clear glass bottles and jars for soft drinks, liquors, foods and pharmaceuticals since 1972.

With single furnace, 180 tonnes/day, Jg Containers enjoys 50% share of the local flint glass market, as well as exporting 35% of output to neighbouring ASEAN countries, Australia, Hong Kong, Mauritius, and Middle East. To serve domestic and international customers, the manufacturing facility is conveniently situated close to Malaysia’s major trunk roads network, as well as Port Klang.

Quality management systems have been implemented in accordance with the requirements of ISO 9001:2015 standards and the factory’s products are certified under this scheme.

Over the years, Jg Containers



has regularly modernised its manufacturing operations, adopting proven industry developments in furnace, forming, inspection and packaging technologies, while employing advanced digital methods to improve its products and customer service.

The glassmaker's latest investment calls on the established production expertise of Germany's Heye International. This includes the installation of an 8-section, double gob 5in IS machine that has been specially adapted to accommodate the customer's existing variables. The Heye IS machine is fully prepared for NNPB process and is equipped with latest Heye technology such as rotor mechanism for constant glass homogeneity, dual motor shears and high-speed delivery system. At the cold end, Heye has delivered its Wenspect quality control inspection solution - a combination of Heye SmartLine check detection system, Heye multipoint wall thickness measurement and Iris Evolution sidewall inspection. Since completing this installation, the customer has recorded 93% glass pack efficiencies. Heye team thanks Jg Top Management Mr. Sanjeev Chadha and Mr. Anwardeen for this opportunity and trust in Heye as a reliable partner.

### CREATING THE NEXT ERA FOR SMART INSPECTION

In response to the international glass container industry's growing acceptance and adoption of 'smart' manufacturing practices, IRIS Inspection machines has expanded its NEO range of smart inspection solutions.

Created in close consultation with key customers, the latest NEO technology goes beyond the conventional boundaries associated with specialist

inspection machines, delivering a more comprehensive offering to face the challenges presented by the smart factory. The NEO Series heralds the arrival of a new era, where glass inspection is not only sustained by machines but also by accurate data and the ability to comprehend, compute and connect it.

NEO Intelligence is an innovative defect approach that relates to intelligent defect recognition and sits at the core of Evolution non-contact glass container inspection equipment.

The latest generation Evolution NEO series marks an important break with other glass inspection machines, bringing the concept of the smart factory even closer. NEO eXperience is the NEO dashboard, designed to assist glassmakers to understand the causes of defects, to simplify the adjustment of settings and to reduce false rejection rates.

The inspection data created is available not only on the machine itself but remotely as well, for plant managers to monitor performance and initiate changes where necessary. In addition, defect images are available to hot end personnel, providing the ability to share critical defect characteristics and defect images in real-time, alerting IS machine operators to instances of critical defect detection.

The NEO series is the result of many years of dedicated research and development. This equipment has received widespread glass industry acceptance, generating multiple orders, in particular from European and Latin American glass packaging producers. Already, 510 machines are running NEO software throughout the world, with excellent customer feedback generated for the innovative defect approach adopted.

### EUROPEAN SOFT DRINKS INDUSTRY JOINS THE "CLOSE THE GLASS LOOP" TO OPTIMIZE GLASS PACKAGING CIRCULAR ECONOMY

UNESDA Soft Drinks Europe – representing the European soft drinks industry – joins "Close the Glass Loop" – the major industry stewardship programme for glass packaging initiated by FEVE – EU Federation of the container glass. The platform has the objective to achieve a post-consumer glass container collection target of 90%, and to ensure that this is recycled into the container glass production loop to come back as a new packaging.

*"We are proud to join the Close the Glass Loop platform. It is a strong initiative and a step in the right direction towards making Europe's Economy Circular. Its objectives are in line with our theme of 'Circularity works, let's all give it a chance', and we are glad to be involved in building its foundations,"* says Mr. Nicholas Hodac, UNESDA Director General. *"By contributing to an increased collection and endless recycling of glass packaging we help to drive sustainability throughout our value chain. Recycled glass is essential for the container glass industry. It means a more resource-efficient production process and more sustainable glass packaging solutions for our member companies".*

The "Close the Glass Loop" initiative aims to unite the container glass value chain under a multi-stakeholder European programme but also crucially to support national level action plans. UNESDA's company and national association members will cooperate with national glass value chains across Europe to improve the collection and recycling of glass packaging. The Close the Glass Loop national action plans will drive



sustainability throughout the whole value chain.

*“We are delighted to have UNESDA’s support and collaboration to reach the full potential of our Circular Economy model predicated on the endless recycling possibilities of glass. Soft Drinks are a key customer for our industry and are frontline in persuading consumers to recycle more and better together”* – stated Ms. Adeline Farrelly, FEVE Secretary General. *“The collaboration with UNESDA members is a key milestone in our pathway to 90% collection target and towards a climate-neutral glass packaging industry”*.

All consumer goods industries are being called upon by the European Commission to collect, recycle and reuse packaging. Each country will need to achieve the 2030 recycling targets fixed by the recently reviewed Packaging and Packaging Waste Directive. For glass, it is 75% by 2030.

**EUROPEAN AND US GLASS INDUSTRIES SALUTE ALL STAFF WHO ARE WORKING RELENTLESSLY TO KEEP ESSENTIAL INDUSTRIES GOING AND TO CONTRIBUTE TO FOOD SECURITY ACROSS THE GLOBE**

European and US glass industries salute all staff who are working relentlessly to keep essential industries going and to contribute to food security across the globe.

The US Glass Packaging Institute (GPI), the European Container Glass Federation (FEVE), and the European Federation of Glass Recyclers (FERVER) released the following statement to thank all employees for their determination and commitment to keep glass manufacturing supplying essential industries during the COVID-19 pandemic: *“The glass container industry, their staff and*

*supply chain partners play essential roles on behalf of food, beverage, and pharmaceutical companies. To guarantee the effective supply of for-sale, in-store packaged food and beverages, the glass manufacturing industry must remain operational as ‘essential’ throughout the duration of the pandemic. A disruption to the food and beverage packaging industry would greatly impair the public’s ability to purchase food and beverages at their grocery store at a time when demand is up considerably, and those outlets remain vital to food security around the globe.”*

In addition to the various measures that have always been implemented by the members of GPI, FEVE and FERVER to protect their employees and guarantee their safety, additional actions are being taken to ensure their health and well-being as the situation evolves. *“Glass manufacturers both in the United States and the European Union work diligently to protect the safety and health of their employees while continuing to ensure the supply of new glass bottles and containers for the food, beverage, and pharma sectors. GPI, FEVE, and FERVER are closely following the guidelines and recommendations published by the World Health Organization (WHO) and other relevant authorities and are monitoring the situation carefully. Employee safety is our first priority and paramount, especially during this uncertain time.”*

In this context, the waste collectors and the recycling sector are also crucial to ensuring the continued supply of essential glass packaging for the food and beverage industries. Hence the importance of continuing to recycle glass packaging in the appropriate bins. The sourcing of local materials from recycling activities to produce new glass containers will continue to

enable the industry to work locally and to maintain its production at a sustained level.

*“The role of recycling in the supply chain of glass packaging is crucial. In North America, recycled glass content averages one-third of every new container, and in the EU, that content is 52% on average. Using recycled glass by leveraging local waste does not only reduce dependency on virgin raw materials but also contributes to both a more sustainable environment and economy. Glass recyclers and manufacturers need high-quality material in order to produce high-quality jars, bottles, and containers. We therefore encourage governments to continue their recycling programs especially during this critical time, so that glass manufacturers can remake new, safe products that support the global health system and our food, beverage and pharmaceutical industries.”*

*“GPI, FEVE, and FERVER remain fully committed to glass manufacturing and recycling. Our organizations stand closely together to continue bringing glass bottles and containers from the factory to the table in this challenging time.”*

**COPING WITH COVID-19: AGI GLASPAC**

*“Dealing with hampered production and lack of input raw materials, AGI glaspac has put in measures to cushion the blow. For starters, a hold on non-critical capital expenditure and a slew of cost reduction initiatives. While 60 per cent staff in key areas like plant engineering, production, and warehouse are on rotational shifts, the rest are working from home”* said Mr. Rajesh Khosla, President and CEO, AGI glaspac.

The nation-wide lockdown, announced on March 24, to contain the COVID-19 pandemic has disrupted pharma supply chains. One

week later, members of the ancillary segments, who would like to partner the pharma sector as it fights the COVID-19 crisis, are stepping up to the challenge and hope that things will get better in the days ahead.

Mr. Khosla admits that logistically, it has been difficult to supply to the pharma companies. AGI glaspac's pharma segment, which currently contributes 30-32 per cent of glass packaging in the Indian pharma packaging industry, is facing hampered production, affected supplies and increased stock. So far, the company is working partially with limited raw materials like sand and soda ash, the key input raw materials for glass packaging.

Mr. Khosla is however hopeful that this will change as some of the state governments have now included the packaging industry in the list of industries exempted from the lockdown.

Mr. Khosla also points out that the recent exemption of non-essential

goods will help most of the factories with supply materials. His stance is that the glass-manufacturing sector should be proactive at this stage as the pharma companies are putting in considerable efforts to fight this crisis.

Emphasising the key role of glass packaging for pharma companies he says, *"Glass is the only packaging material with the GRAS status from the US FDA. The manufacturers also use a cleanroom environment for pharma glass manufacturing to prevent contamination in glass bottles. Hence, it avoids all kinds of contamination during the storage and supply of products for the pharma company."*

Like many of its peers, AGI glaspac has taken precautions to safeguard the health of employees, respond to clients' requests as well as adhere to the government regulations to contain with COVID-19. Mr. Khosla highlights changes in three areas: input material; workforce; and outward transportation.

Anticipating increased demand as

well as possible supply chain glitches, the company has had to ensure that input raw materials used for glass production are stocked up for the next few months. The company is also looking at alternative vendors in certain cases.

According to Mr. Khosla, Soda Ash, a primary raw material, has been stocked for up to two months to cater to the demand. AGI has its own sand manufacturing plant, but due to the lockdown, there are chances that certain operations will run partially.

The situation is a bit better on the fuel front as according to Mr. Khosla, oil, gas and other fuels won't be hit as the industry has informed the company that there won't be any shortage. As machinery parts and cartons used for packaging have been stopped or delayed, the company is reportedly looking at alternative options from local vendors.

To safeguard employees, contract staff and others, Mr. Khosla said that the company has driven various awareness programmes through



63<sup>rd</sup> Birthday (2<sup>nd</sup> March) of Mr. Raj Kumar Mittal, President AIGMF was celebrated on March 3<sup>rd</sup> at the Glass promotion meeting in AIGMF office



banners, leaflets, workshops, etc. to bring in safety as the utmost priority for the workers.

“Almost 60 per cent of our employees are now working from home in the Hyderabad and Bhongir plants with the rotational shifts (alternate days) in our important departments like Plant Engineering, Production, Warehouse, Quality and a 100 per cent work-from-home situation across all our other sales offices. Our production and engineering teams continue to work,” says Mr. Khosla.

The company has also initiated temperature checks and sanitisation at entry and punching areas. Hot water dispensaries have been implemented in various areas. The employees are only following virtual interactions for customer and internal meetings. All the outgoing and incoming transportation is being carefully monitored to avoid any spread of the virus.

“We have given truck drivers proper awareness and information on the outbreak of the virus. Truck drivers are not allowed to enter without washing their hands. Hand sanitisers have been made available for the truck drivers and cleaners,” reveals Mr. Khosla.

There is no doubt that the COVID-19 situation will impact the company’s revenues. As Mr. Khosla reveals, “All non-critical capital expenditure is on hold. Cost reduction initiatives have been identified wherever possible.”



Mr. Vijay Shah, Vice Chairman, Piramal Glass at the groundbreaking ceremony

### PIRAMAL GLASS IN \$42 MILLION EXPANSION AT ITS JAMBUSAR, INDIA PLANT

Piramal Glass is to invest US\$42 million to expand its Jambusar, India container glass manufacturing plant.

The expansion plan includes one new furnace with seven manufacturing lines across its 300,000 sq. feet plant. It will cater to the high-end speciality spirit, food & beverage and pharmaceutical markets for exports to countries in Asia, Europe and the US.

The Indian glass packager said the facility will be one-of-its-kind in Asia as there is a growing need for high-end water bottles, spirits bottles and food packaging.

The Jambusar plant already has three furnaces with 23 manufacturing lines

and produces 540 tonnes per day of glass. It employs 2130 people and with this expansion it will create additional direct employment to 700 people.

Mr. Vijay Shah, Vice Chairman, Piramal Glass said: “This world-class plant equipped with cutting-edge technology rooted in the principles of digital manufacturing, will also create job opportunities in the region.”

Piramal Glass has global sales of US\$357 million and operates from India, Sri Lanka and the US through its four manufacturing facilities and several decoration plants.

Globally, it manufactures 1435 tonnes per day of glass from 12 furnaces and 63 production lines. 40% of its sales are in high-end cosmetics & perfumery market, 37% in speciality spirits market and 23% in pharmaceutical market.



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## ग्लास एक्सपोर्टों के गोदामों में भरा पड़ा करोड़ों का माल

कोरोना लॉकडाउन से उद्योग-धंधे बुरी तरह प्रभावित हो गए हैं। जिसमें कांच नगरी के ग्लास एक्सपोर्टों सहित प्रदेश के कई जिलों के निर्यातकों का करोड़ों रुपये के आर्डर का माल उनके गोदामों में पड़ा हुआ है। लेकिन विदेशी खरीददार उसका उठान नहीं कर पा रहे हैं। जिससे एक्सपोर्टों की धड़कनें बढ़ी हुई हैं।

अब एक्सपोर्टों की समस्या पर शासन ने भी ध्यान देना शुरू कर दिया है। प्रदेश के प्रमुख सचिव उद्योग नवनीत सहगल ने वीडियो कांफ्रेंसिंग के जरिए डायरेक्टर एक्सपोर्ट प्रमोशन काउंसिल ऑफ़ हैंडीक्रॉफ़्ट (ईपीसीएच) के माध्यम से एक्सपोर्टों की समस्याओं को गंभीरता से सुना। साथ ही यथा संभव शासन से निर्यातकों को राहत दिलाए जाने का आश्वासन दिया।

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प्रमुख सचिव सहगल ने वीडियो कॉन्फ्रेंसिंग के दौरान ईपीसीएच के चीफ डायरेक्टर राकेश कुमार, निदेशक आरके वर्मा व राजेश रावत के अलावा फिरोजाबाद ग्लास मैनुफैक्चरर्स एसोसिएशन अध्यक्ष मुकेश बंसल टोनी, मुरादाबाद से शरद बंसल, कमल सोनी, आरके मल्होत्रा, आगरा से रजत अस्थाना से सीधा संवाद किया। इस दौरान शहर के प्रमुख ग्लास एक्सपोर्ट मुकेश बंसल ने प्रमुख सचिव को अवगत कराया कि कोरोना महामारी की वजह से कांच नगरी का ग्लास एक्सपोर्ट तबाह होने के कगार पर पहुंच गया है। फिरोजाबाद के निर्यातकों के 100 करोड़ से अधिक के आर्डर का माल भेजने के लिए गोदामों में तैयार रखा है। लेकिन अमेरिका व यूरोप के अनेक खरीददारों ने आर्डर कैंसिल कर दिए हैं।

उन्होंने कहा कि 90 प्रतिशत से अधिक कांच नगरी के ग्लास हैंडीक्रॉफ़्ट आयटम का माल अमेरिका, इटली, जर्मनी, इंग्लैंड, स्पेन व अन्य यूरोपीय देशों में जाता है। जहां पर सबसे ज्यादा महामारी फैल रही है। मुकेश जी ने कहा कि सबसे बड़ी दिक्कत तो यह है कि कोई भी विदेशी कारोबारी बकाया राशि भी नहीं दे रहा है। जो कि करोड़ों में हैं। ऐसे में निर्यात कारोबार को सरकारी राहत

कोरोना लॉकडाउन में शहर के चूड़ी व कांच उद्योग को करोड़ों का नुकसान हो चुका है। कारखाने भी बंद चल रहे हैं। ऐसी स्थिति में हम लोग हजारों श्रमिकों को अप्रैल माह में बिना काम के मेहनताने का भुगतान नहीं कर सकेंगे।

– राजकुमार मित्तल  
चेयरमैन यूपीजीएमएस उद्यमी संगठन

विदेशी कारोबारियों ने हमारे आर्डर रद्द कर दिए हैं। तैयार माल गोदामों में भरा हुआ है। कांच उद्योगों में लॉक डाउन चल रहा है। उद्योगों पर करोड़ों रुपये का बैंक लोन है। किश्त भी नहीं चुका पा रहे हैं। श्रमिकों को बिना काम के पगार नहीं दे सकते। इसके लिए सरकार को राहत पैकेज देना चाहिए।

– मुकेश बंसल टोनी  
चेयरमैन, फिरोजाबाद, ग्लास मैनुफैक्चरर्स एक्सपोर्ट एसोसिएशन

की दरकार है। इसी तरह आगरा, मुरादाबाद के निर्यातकों ने अपनी समस्या बताई। साथ ही राहत पैकेज दिए जाने की मांग उठाई। जिस पर प्रमुख सचिव सहगल ने शासन स्तर से यथासंभव राहत दिलवाए जाने का आश्वासन निर्यातकों को दिया। ■

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

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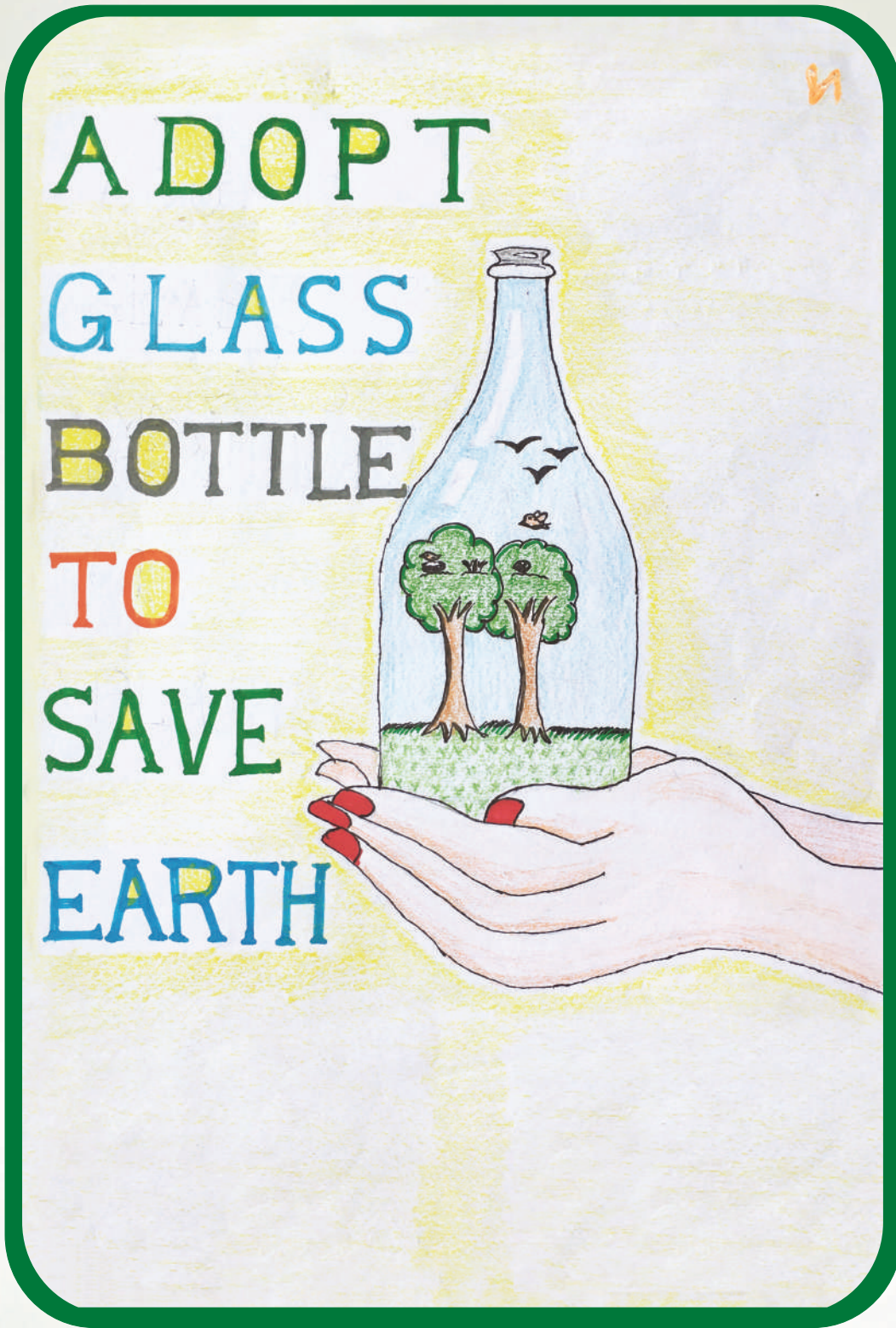


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2.	<b>H-Energy Gas Marketing Pvt. Ltd.</b> Mr. Hiren Mehta 12 <sup>th</sup> Floor, Knowledge Park Hiranandani Business Park Powai, Mumbai - 400 076 Tel: + 91 22-25715100/5200 E: <a href="mailto:hmehta@in.henergy.com">hmehta@in.henergy.com</a>	Supplier of regasified liquified natural gas
3.	<b>Er. P K Jain (Consultant)</b> Mr. P K Jain F-1, Green Park, New Delhi-110 016 T: +91 11-4175 5700 / 2696 0532 E: <a href="mailto:pkjainconsultants@gmail.com">pkjainconsultants@gmail.com</a>	Consultants to the Glass Industry

## 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.php](http://www.aigmf.com/membership.php)

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)



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