

## IIF FOUNDRY NEWS BULLETIN



**Mission – Zero Defect**



Web-link to 67<sup>th</sup> IFC Promo Video:

<https://www.youtube.com/watch?v=PHDwI2u2tTM>

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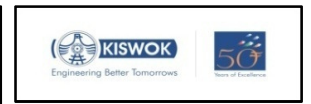
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## Plant Visit to M/s. Rockman Industries Ltd., Bawal, Haryana by IIF Members on 7<sup>th</sup> March 2018



A works visit was organised by The Institute of Indian Foundrymen- Delhi Office to M/s. Rockman Industries Ltd., Bawal, Haryana which was attended by 18 Members on 7<sup>th</sup> March, 2018.

**Rockman Industries** is a leading Aluminum die casting components, machined & painted assemblies manufacturer & supplier to world's largest motorcycle manufacturer and renowned automobile OEMs. Having five plants located at, Haridwar, Ludhiana, Chennai & Bawal, Rockman has capacity of more than 65000 tonnes of aluminum processing annually and has expertise in all the three casting processes (GDC, LPDC, and HPDC).

Rockman is industry leader in 2 wheeler alloy wheels with installed capacity of 5.8 million wheels annually. Apart from 2 wheeler alloy wheels, Rockman is into manufacturing of cylinder head, cylinder block, crank case, crank case covers, oil pan, transmission housing, etc. Rockman is also manufacturing drive chains, cam chains, and starter chains for motor cycles; supplying to OEMs and also in after market.

The facilities at Bawal plant was spread over 48000 sq. mtrs. with over 1000 employers working there. Total 17 numbers of HPDC machines were installed in the unit with annual capacity of 2.0 Million wheels with an average productivity of 1.30 tons/ man/ month.



The Rockman team extended a warm welcome to the IIF Members and showed them their Corporate Movie and detailed presentation about their Organization, Products, Manufacturing & Quality Assurance processes etc. After the presentation, **Mr. Ajai Kumar Singhal, Plant Head & AVP** of Rockman Ltd. interacted with the IIF Members, which was highly appreciated by the visiting Members.

IIF members were divided into 3 groups for the plant visit, each accompanied by a Supervisor and Security Incharge. Visiting the plant in smaller groups was more advantageous, as every member was able to access and view the details properly and also interaction with the plant personnel was smooth as they were able to handle queries of the members more appropriately.



After the plant visit, there was useful interaction between IIF Members and senior Rockman officials who answered all queries of IIF Members

The key learnings were the housekeeping at shop floor, safety & environment (zero discharge), in process quality controls & records for traceability, the various pictorial instructions, SOPs & cautions at shop floor truly were key learning, which will certainly motivate our members to adopt such practices to some extent in their operations.

Mr. A. K. Anand, Director, Foundry Informatics Centre proposed the Vote of Thanks to Rockman team for their kind courtesy & hospitality and for facilitating the visit for IIF Members.

Mr. Naresh Garg, Past President IIF, presented a memento to Mr. Ajai Kumar Singhal on behalf of IIF. Mr. Surendra Verma, Chairman, Foundry Informatics Centre, presented a Coffee Table Book to Mr. Singhal of foundry industry.

## **BW BUSINESSWORLD**

### **Role of Industry 4.0 In Manufacturing & Foundry Industry**

*Manufacturing will have to compete with Industry 4.0, which is the fourth industrial revolution and is about synchronizing physical world with virtual world with never before opportunities for improved productivity and efficiency*

10 March, 2018, by AK Anand, Director, IIF

Indian Government's campaign regarding "Make in India" is well meaning slogan and with good intentions. In true sense it is possible to realize the goals only if we can compete globally in terms of quality, pricing and ability to deliver on time. Going forward, we will see competition due to rapid emergence of Industry 4.0 in all spheres of manufacturing in various parts of the world.

Manufacturing will have to compete with Industry 4.0, which is the fourth industrial revolution and is about synchronizing physical world with virtual world with never before opportunities for improved productivity and efficiency.

The future will throw open opportunities for optimization at all levels of production including foundries.

Digital transformation is taking place in all spheres be it governance, delivery of various services, smart cities, smart homes or transportation. Industry 4.0 is the digital version of industry. The essential parts of industry 4.0 are 6Cs i.e. Connection - sensors & networks, Cloud - computing & data on demand, Cyber - mode & memory, Content - meaning & co-relation, Community - sharing & collaboration, and Customization - personalization & value.

Industry 4.0 may not be the need for one and all. But it can be a boon for industry that is



operating in highly competitive environment. It can be used for single processor for complete transformation which can be customized and will depend on individual case. The main factors for success are - having a vision or idea, digitization has to be a focus of management and of strategic importance, changing the workflows to transform the way we do things, and workforce and partners.

There are number of aspects to consider. It is very important to analyze return on investments (ROI). In digital world nothing is impossible but without proper ROI, these technologies may not have significant relevance. There has to be a business case suited to individual operation.

There is new challenge of security. As soon as machinery is connected to outside world, it gets exposed to security threats. There may be several ways to handle the security risk but most go with restricted access. New security risks will emerge for which adequate software update mechanism will have to be in place. This normally does not exist for machine control system.

In 4.0, there is need to include sync with industrial network of companies. In this situation, the definition of ownership of data becomes difficult. Who owns the data on the clouds remains a question mark. Such issues cause the companies to be skeptical and hesitant to use such technologies. As we go forward, we will see machines will communicate with each other and able to operate without human intervention restricting human role which will change from operation to supervision and maintenance.

Industry 4.0 is just in infant stages for the foundry industry. Basic machine to machine communications and remote service over VPN have been in use for quite some time already. More and more people are wanting to explore such technologies. Lot more needs to be done both on supplier and customer side to fully use the potential of Industry 4.0. On supplier side right technologies and expertise has to be built and customers have to understand expected value of 4.0.

The 4.0 technologies in foundries will start with localized solutions and moving to cloud applications gradually resulting in improved connectivity between foundries and suppliers.

### **Seminar on "Aluminium Casting - The Future Ahead"**

IIF- GMC Chapter is conducting one Technical Seminar on "Aluminium Casting - The Future Ahead" as per the following details:-

**Date:** Friday, 16th March 2018

**Venue:** Grand Peninsula , Sakinaka, Mumbai

#### **Registration Fee**

For IIF Members - Rs. 750 Inclusive of GST

For Non – members - Rs. 1250 Inclusive of GST

For registrations, please write to [iif.mumbai@gmail.com](mailto:iif.mumbai@gmail.com)

### **Approx Major Raw Material Prices**

ITEMS	Price 01.03.2018 Rs./Kg (Basic Price Excl GST)	Price 09.03.2018 Rs./Kg (Basic Price Excl GST)
Pig Iron (Mum)	34.5	35.0
Melting Steel (Mum)	30.5	31.0
CRCA Scrap	31.5	31.5
Copper Ingot	484	484
Aluminum Ingot	162	161

### **News Headlines..**

- Indian Brass, Copper Scrap prices drop
- Indian Aluminium Scrap prices flat
- Indian Nickel Scrap prices down
- Indian Ferro Silicon Producers Lower Offers On Rising Inventory
- Indian silicomanganese prices go up
- Chinese ferro-silicon spot market slumped
- Chinese HC ferrochrome price stable
- US non-ferrous scrap exports decline in Jan
- North American Scrap Metal Prices Dropped Substantially on Index
- Brazil's pig iron prices jump, availability low
- Italian scrap market action slows

### ◆ Souvenir Advertisement Tariff ◆

Page	Rate
Front Page	50,000/-
Back Page	35,000/-
Front Inside	25,000/-
Back Inside	20,000/-
Color Full Page	10,000/-
Color Half Page	6,000/-

Last date for receiving advertisements is 31st March 2018

Advt. material should be in CDR or PDF or TIFF format and send it by email or on a cd

### Hotel Accommodation - Preferred List of Hotels in Kolhapur

Hotel Sayaji	0231-255 5999	sales.am@sayajikolhapur.com
Hotel Panchshil	0231-253 7322	reservation@hotelpanchshilkolhapur.com
Hotel Vrishali Executive	0231-265 5214	fro@hotelvrishali.com
Hotel Pearl	0231-668 4451	reservation@hotelpearl.biz
Hotel 3 Leaves	0231-253 2255	info@hotel3leaves.com
Hotel Atria	0231-265 0383	reservation@hotelatria.com
Hotel Citrus	0231-668 1333	reservation@citrushotels.in
Hotel KTree	0231-252 6990	info@hotelktree.com
Hotel Orient Crown	0231-661 9999	info@hotelorientcrown.com



**Works Visit**  
**Tuesday 17th April 2018**  
1. Caspro Metals (P) Ltd., Shirol  
2. Shriram Foundry Ltd., Shirol  
3. Laxmi Pumps (P) Ltd., Kagal  
Works Visit Fee: Rs. 1000/- + GST 18%



Payment : All payments by RTGS/Cheque/DD/ payable to the following account

Account name : **The Institute of Indian Foundrymen**

Bank Name : ICICI Bank Ltd.

Account No : 098301001880

GSTIN : 19AAATT6606M120

Branch Name : Kasba, Kolkata

IFSC Code : ICICI0000983

MICR No. : 700229034

**Sushil Sharma**  
Chairman  
IIF Western Region

**Rajiv Parikh**  
Chairman  
Organizing Committee

**Deepankar Biswas**  
Chairman  
IIF Kolhapur Chapter

**Raju Somani**  
Convener  
Wescon 2018

Sonai Hall, Tirth Enclave, 4th Floor, 11th Lane, Rajarampuri, Kolhapur - 416 008.  
Email-kolhapur@indianfoundry.org Cell No. - 09673285534

### Organising Committee

1. Mr. Sushil Sharma - Chairman, Western Region
2. Mr. Rajiv Parikh - Chairman, Organizing Committee - Wescon 2018
3. Mr. Rajesh Somani - Convener, Wescon 2018
4. Mr. Deepankar Biswas - Chairman, Kolhapur Chapter
5. Mr. Suresh Chavan - V. Chairman, Western Region
6. Mr. Manish Patrikar - Hon. Secretary, Western Region
7. Mr. Suresh Chougule - V. Chairman, Kolhapur Chapter
8. Mr. Sumeet Chougule - Hon. Secretary, Kolhapur Chapter
9. Mr. Jaykumar Parikh - Chairman, Registration Committee
10. Mr. Narendra Zamvar - Chairman, Resource & Finance Committee
11. Mr. Malhar Bhandurde - Chairman, Technical Paper Committee
12. Mr. Ravindra Patil - Chairman, Program Arrangement & Hospitality Committee
13. Mr. Vilas Jadhav - Chairman, Souvenir, Press & Publicity Committee

### Programme Schedule

#### Sunday 15th April 2018

08.30 to 09.00 AM : Reg. & Welcome Tea  
09.00 to 10.45 AM : Inaugural Function  
10.45 to 11.15 AM : Inaugural Tea  
11.15 to 01.15 PM : Session I  
01.15 to 02.15 PM : Lunch  
02.15 to 04.00 PM : Session II  
04.00 to 04.15 PM : Tea  
04.15 to 05.30 PM : Session III  
7.00 PM onwards : Gala Dinner

#### Monday 16th April 2018

09.00 to 09.30 AM : Breakfast  
09.30 to 11.15 AM : Session IV  
11.15 to 11.45 AM : Tea break  
11.45 to 01.00 PM : Session V  
01.00 to 02.00 PM : Lunch  
02.00 to 04.00 PM : Session VI  
04.00 to 04.30 PM : Valedictory Function  
04.30 to 05.00 PM : High Tea & conclude

### About Wescon 2018

We live in a smart, connected world that enables a virtuous cycle of innovation, autonomous products have caused significant value chain disruptions and are transforming industries. The technologies are widely predicted to redefine the world.

The Institute of Indian Foundrymen, Kolhapur Chapter has felt the need to provide direction to this transformation & potential opportunities & challenges for growth. 'WESCON - 2018' a two day Conference is being arranged on Sunday 15th & Monday 16th April 2018 at Hotel Sayaji, Kolhapur. Theme of the Conference is 'VISION-2025: Predict the Challenges... Cast the Future'

### For any further information please contact the following persons

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Abhijeet Naik : 9673285534, IIF Kolhapur Chapter Office

## The Institute of Indian Foundrymen, Kolhapur Chapter Presents

IIF Western Regional Conference  
**Wescon**  
2018 Kolhapur



### ◆ Date ◆

**15th & 16th April 2018**

### ◆ Venue ◆

**Hotel Sayaji, Kolhapur**

Organised by



Jointly with



### Chief Guest and Keynote Speaker

**Mr. Yatin Shah, Chairman & MD, Precision Camshafts Ltd., Solapur**

Precision camshafts Ltd is a global leader in automotive camshafts. Mr Yatin Shah is the promoter of this world class company.

**Key note address on - Local to Global**

### Speakers & Topics of Discussion

● **Mr. Rajendra Bagwe** Founder & Co-Director, Reliable Autotech Ltd, Nashik

Reliable Autotech Ltd, is the leading manufacturer of automotive sheetmetal components. Mr. Rajendra Bagwe is also management guru and mentor to Teaching Learning Community with 500+ group of entrepreneurs.

**Topic - Role of Leadership in SME's**

● **Mrs. Mohini Kelkar** MD, Grind Master Machines (P) Ltd., Aurangabad

Grind Master provides unique robotic metal finishing solutions which have earned them trust globally. **Topic - Future of Exports for Indian SME's - Opportunities & Challenges**

● **Dr. Ranjeet Date** Jt. MD, PARI - Precision Automation & Robotics (I) Ltd., Pune

PARI is an inspiring story of Make in India competing against Global giants in the field of Automation and Robotics.

**Topic - Make in India through Innovations**

● **Mr. Udayan Pathak** Tata Motors Ltd., Pune (EV Project)

Electrical vehicles are changing the face of automotive industry and are also going to change world economy. He will be deliberating on the overall impact of this disruptive change on industry

**Topic - Electrical Vehicle - the Future**

● **Mr. N. Visvanathan** MD, Ammrin Foundries, Coimbatore

Ammrin Foundries has transformed from a small foundry to one of the top foundries in the country.

**Topic - Green Initiatives for Sustainability & Value Creation**

● **Mr. Nagesh Dhumma** Head - Global Sourcing, Schapenberg Industries GmbH.

15+ Years of Industrial Experience in Strategic Global Sourcing, Supplier Quality Assurance, Operations and Supplier Development. He will be deliberating on various aspects of machined casting exports.

**Topic - Export opportunities and expectations for machined castings**

● **Mr. Jimmy Sorensen** Vice President, (Engineering) DISA Industries, Denmark

Industry 4.0 is the name for the current trend of automation and data exchange in manufacturing technologies. He will be discussing its adaption in the foundry industry.

**Topic - Industry 4.0**

● **Mr. Sumeet Verghese** Founding Partner, Your HR Buddy

He brings more than 18 years of work experience as a HR Management & Organization Development consultant, facilitator and published researcher. He has personally trained over 1000 executives & consulted more than 100 firms. He has a word of advice for issues related to succession in our business.

**Topic - Business Succession Planning**



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## In the News..

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### Maxion Breaks Ground at New US\$50-Mm Aluminium Wheel Plant in Western India

Leading vehicle wheel manufacturer Maxion Wheels broke ground on the site of a soon-to-be-built passenger vehicle aluminium wheel plant in western India.

The six-acre plant in Pune will manufacture low-pressure die cast aluminium wheels coated with a high-end wheel finish. The US\$50-million plant is expected to begin production in the fall of 2019 and feature a nameplate capacity of 2 million units per year. Pieter Klinkers, Chief Executive Officer, Maxion Wheels, hailed the milestone as a response to the growing global market for aluminium wheels.

"With our new Pune passenger car aluminum wheel plant, Maxion Wheels becomes the first global light vehicle aluminum wheel producer in the Indian market. We responded to our growing global customers' requests, and made the investment to join them in the world's fastest-growing economy. When our project is complete, we will produce four million aluminum wheels annually. In this first phase, an investment of more than \$50 million USD will be spent on the land and state-of-the-art plant and equipment for the manufacturing of two million wheels annually. Start of production is expected in the third quarter of 2019."

The plant, which will be owned and operated by the newly-created division Maxion Wheels Aluminum India Private Limited, is forecast to add an additional 1,000 new jobs both at the plant and in support roles from outside companies.

A division of Brazilian automobile parts manufacturer Iochpe-Maxion S.A., Michigan-based Maxion Wheels produces 56 million wheels each year, making it the world's most prolific manufacturer. It operates over two dozen plants in over a dozen countries on five continents, producing wheels for cars, light and commercial trucks, trailers, agricultural equipment, military vehicles, and other on- and off-road applications.

Source: [aluminiuminsider.com](http://aluminiuminsider.com)

### PMO calls top officials' meet on Monday to discuss GST refunds to exporters

*CBEC has sanctioned Rs 40 billion worth refunds to exporters in four months since October*

The Prime Minister's Office has called a meeting of top officials of commerce and finance ministries tomorrow to discuss the issue of GST refunds as exporters claimed that their 70 per cent of refunds are still stuck even after eight months of rollout of the new tax regime.

The meeting would also assess the impact of delay in refund process on exports and manufacturing, sources said.

The issue of refunds to exporters has been hanging fire for over five months now, with exporters complaining that delay in GST refunds has blocked their working capital.

The revenue department, on the other hand, has argued that there are discrepancies in forms submitted by exporters with the customs department and those with the GST Network (GSTN).

The Central Board of Excise and Customs (CBEC) has sanctioned Rs 40 billion worth refunds to exporters in four months since October.

Still, claims of about Rs 100 billion are stuck due to discrepancies in the information furnished by exporters to GST Network (GSTN) through forms like GSTR 1 or Table 6A or GSTR 3B, and the shipping bills filed with the Customs.

According to sources, the meeting would be attended by Finance Secretary Hasmukh Adhia, Commerce Secretary Rita Teatota, CBEC Chairperson Vanaja Sarna and top officials from the Directorate General of Foreign Trade (DGFT).

The DGFT, under the Commerce Ministry, is slated to make a presentation before the Principal Secretary to the Prime Minister on the pending refunds to exporters.

The GST Council in October last year had said that an e-wallet mechanism for refunds to exporters would be developed and had

entrusted the DGFT to prepare required norms for the implementation from April, 2018.

Under the e-wallet mechanism, a notional credit would be transferred to the exporters account based on their past record and the credit can be used to pay taxes on input.

Exports during April-January 2017-18 grew by 11.75 per cent to \$247.89 billion as against \$221.82 billion in the year-ago period.

#### **GST Council meet: Relief for exporters, tax exemption extended by 6 months**

*E-way Bill will be implemented from April 1 for inter-state movement of goods: Finance Minister Arun Jaitley*

Finance Minister Arun Jaitley on Saturday announced that the e-way bill will be implemented from April 1 for inter-state movement of goods. While speaking to media after the crucial GST Council meet, Jaitley also said that the tax exemption for exporters has been extended by six months. Among other key decisions, intra-state e-way bill will be rolled out from April 15 in a staggered manner and the entire country will be covered by June 1. The present system of GST return-filing has also been extended by three months.

"Intra-state e-Way Bill will be rolled out in phased manner with four groups of states. Each group will come under it every week after April 1 and efforts will be made to implement it across the country by April end," Jaitley said after the 26th GST Council meet. In its February 24 meeting, a group of ministers headed by Bihar Deputy Chief Minister Sushil Modi recommended April 1 as the date for compulsory implementation of the system for inter-state goods movement.

Under the GST regime, an e-way bill needs to be generated and carried for movement of all goods valued at over Rs 50,000. Jaitley also said the Council has discussed two alternate ways of return filing processes. But no concrete decision has been taken on it yet. "The current process of return filing has been extended for another 3 months," Jaitley said.

He said the Group of Ministers and the IT experts would explore the models discussed today and decided on the implementation.

Implementation of reverse charge mechanism has also been extended by three months.

#### **Industry 4.0: Centre taking steps for smart manufacturing, says official**

*The term Industry 4.0 is synonymous with smart manufacturing and it is revolutionising the way manufacturing is done worldwide*

The heavy industries and public enterprises ministry is supporting setting up of four centres in the country to facilitate SMEs implement Industry 4.0, a senior government official said on Friday.

N Sivanand, Joint Secretary in Department of Heavy Industry, said these four centres will come up at institutes, including IIT Delhi; Central Manufacturing Technology Institute, Bengaluru; and IIT Mumbai.

These centres would be set up this year. Industry 4.0 is the next level of industrial revolution encompasses use of robotics, artificial intelligence, smart manufacturing and increasing digitisation. He said the ministry is taking several steps to increase awareness about these sectors as it would help boost growth of manufacturing in the country.

The term Industry 4.0 is synonymous with smart manufacturing and it is revolutionising the way manufacturing is done worldwide, he told PTI. These centres would create awareness on the relevant smart manufacturing technologies, application of which would lead to increased efficiency and productivity, he added.

It encompasses cyber-physical systems, the Internet of Things, cloud computing and cognitive computing.

The opportunities and efficiencies that smart manufacturing offers can help the industry in increasing its competitiveness, he said.

The centre in Pune has come together to create awareness, skill training, consultancy support and R&D for 5,000 companies for faster adoption and integration of new modern technologies in automobiles and machine tools sector.

## **Indian Auto industry posts 14.41% growth in domestic sales in April-Feb 2018**

The industry produced a total 26,202,671 vehicles, including passenger vehicles, commercial vehicles, three wheelers, two wheelers and quadricycle in April-February 2018, against 23,078,120 in April-February 2017, registering a growth of 14.41 percent over the same period last year, according to a data released by Society of Indian Automobile Manufacturers (SIAM).

The sales of Passenger Vehicles grew by 8.04 percent in April- February 2018 over the same period last year. Within the passenger vehicles, passenger cars, utility vehicles and vans grew by 3.62 per cent, 21.34 per cent and 4.25 per cent, respectively during April-February 2018 over the same period last year. The overall Commercial Vehicles segment registered a growth of 19.30 percent in April- February 2018, compared to the same period last year.

Medium & Heavy Commercial Vehicles (M&HCVs) grew by 11.91 per cent and Light Commercial Vehicles grew by 24.64 percent during April- February 2018 over the same period last year. Three Wheelers sales grew by 19.11 per cent in April- February 2018 over the same period last year. Passenger Carrier sales registered a growth of 22.36 percent and Goods Carrier sales grew by 6.80 percent in April-February 2018 over April- February 2017.

In April- February 2018, overall automobile exports increased by 15.81 percent. Two and three wheelers segments registered a growth of 20.30 per cent and 37.02 per cent respectively, while Passenger and Commercial vehicles declined by (-) 1.80 per cent and (-) 13.26 per cent respectively in April-February 2018 over the same period last year.

## **Aluminum Trade Association Raises Deep Concerns Over Proposed US Tariffs**

The Aluminum Association has expressed deep concerns over the potential damages that could arise due to implementation of global aluminum tariff by the US administration. The concerns were shared by the Association President &

CEO Heidi Brock in an open letter addressed to the US President.

Brock expressed gratitude to the attention dedicated to the domestic aluminum industry by the US administration. However, he noted that all the member companies that are represented by the Association are deeply concerned over the effects of global aluminum tariffs on domestic aluminum production and the thousands of jobs supported by the industry. The proposed tariffs, in no ways, could address the massive aluminum overcapacity in China, which is considered to be the primary threat to US aluminum makers. Also, the tariffs are feared to do more harm than good to large number of industry jobs.

The letter calls for immediate negotiations with Chinese administration to address persistent overcapacity in primary and semi-fabricated aluminum sectors. The Association calls for targeted action on China and other countries known for duty evasion and circumvention, rather than implementing uniform tariffs on all countries. Further, the letter proposes administration to grant exemption for vital trading partners including Canada and the European Union in order to avoid disruption of current trading relationships.

The Aluminum Association highlighted the need for an effective aluminum import monitoring system to provide greater transparency and clarity to aluminum and aluminum products entering the US. Any decision taken is bound to affect entire domestic aluminum value chain, the Association warned. Brock stated that the trade body would appreciate an opportunity to discuss the recommended alternative actions with members of the US administration.

## **Huge opportunities for exporters despite barriers raised by some nations**

Huge opportunities are available for Indian exporters to find a niche market for their products and services despite protectionist measures being taken by some countries in the globe, Commerce Minister Suresh Prabhu said today.

He said that right now exporters are sailing in turbulent waters as certain countries are



creating borders and impediments for global trade. But despite that, "we have to make sure that, we gain more and more market share," he said adding "It is doable because whether some countries put tariff and non-tariff barriers, still huge room is available to find a niche market".

The minister's remarks assumes significance as the US government plans to impose hefty import tariff on aluminium and steel products. Prabhu also asked exporters to formulate specific strategy and focus on standards of products to increase shipments.

"I assure full support from the government," he said here at an ECGC function. Speaking on the occasion, Commerce Secretary Rita Teatia assured exporters of early resolution of issues related to refund of the Goods and Services Tax (GST).

She said that the ministry is working on ways to reduce logistics cost for exporters to increase their competitiveness in global markets. Cut in logistics cost by 2 per cent would "do enormous service in increasing competitiveness" of exporters, she added.

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## **International News..**

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### **Scientists from Hanover Develop a Novel Lightweight Production Process**

Car manufacturing is developing more and more towards lightweight construction. Not all parts of a car can be made out of lightweight materials such as aluminium, making it necessary to combine materials with different properties. Researchers in Hanover now are developing a process in which bulk aluminium can be bonded with steel sheets already during forming.

In co-operation with the Institute of Welding and Machining (ISAF) of TU Clausthal, the Institut für Integrierte Produktion Hannover (IPH) gGmbH is developing a novel forging process for lightweight car manufacturing. The researchers' aim is to create a material bond between steel sheets and bulk aluminium parts already during the forming process – without the need for an extra joining step. This would contribute to a faster and more efficient

production of load-optimised components.

Hybrid compound forging is the first process that combines two lightweight construction approaches, namely creating a material bond between steel sheets and bulk parts, and employing different materials with different properties – such as lightweight aluminium and strong steel.

The researchers' idea is to form and join a steel sheet and a solid aluminium stud in one process step to make the process more efficient. Before, there had to be two steps: First, the single parts had to be formed individually.

In a second step, these parts had then to be joined, for example by using stud welding. The idea of hybrid compound forging is to eliminate the subsequent joining step – and facilitate a faster and more efficient production of lightweight components.

When designing the novel lightweight production process, IPH and ISAF have to meet two challenges: Since aluminium has a considerably lower melting point than steel, the joint-forming process is more complicated. Moreover, the mixing of steel and aluminium creates brittle intermetallic phases. In this state, the material bond is not strong enough and therefore unsuitable for car manufacture.

The solution of the researchers for this problem was to integrate another material: The researchers employ zinc-plated steel sheets and aluminium studs. Zinc firmly bonds to aluminium as well as to steel without creating brittle phases.

Within the scope of the research project "Hybrid Compound Forging", the researchers' task is to determine the most suitable process conditions – i.e., optimal temperature, pressure and speed for successfully forming and joining the two parts.

They also try to identify the suitability of the novel process with respect to different types of sheet thicknesses and stud shapes. Another topic is to determine the joining zone's capacity to withstand loads as well as the machinability of the hybrid part after joining.

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## Government Schemes

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### Bank Credit Facilitation Scheme - NSIC

To meet the credit requirements of MSME units NSIC has entered into a Memorandum of Understanding with various Nationalized and Private Sector Banks. Through syndication with these banks, NSIC arranges for credit support (fund or non fund based limits) from banks without any cost to MSMEs. Furthermore the MSMEs can upgrade their competence in terms of business and technologies by getting rated through independent, renowned and professional rating agencies empanelled with NSIC.

The empanelled rating agencies are CRISIL, ONICRA, SMERA-D&B, CARE, India Ratings, BRICKWORK and ICRA. The MSE's which get rated under NSIC-Performance and Credit Rating Scheme not only has a liberty to get rated from any one of rating agencies of its preference but it also invariably increases their creditability in business and help them in getting timely credit from banks at liberal rates of interest. All documentations pertaining to completion and submission of a credit proposal to banks shall be undertaken by NSIC thereby saving cost and time to MSME. To send in your loan enquiries, please contact at the below given addresses [hobts@nsic.co.in](mailto:hobts@nsic.co.in)

For more details please click on the link <http://www.nsic.co.in/bankfaci.asp>

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## Notifications/ Circulars

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### Ministry of Finance, Dept. of Revenue, CBEC

Notification No.12/2018 – Central Tax  
Second Amendment (2018) to CGST Rules  
[http://cbec.gov.in/resources/htdocs-cbec/gst/Notification-12-2018-central\\_tax-English.pdf](http://cbec.gov.in/resources/htdocs-cbec/gst/Notification-12-2018-central_tax-English.pdf)

### Ministry of Finance, Dept. of Revenue, CBEC

Circular No. 36/10/2018-GST, dt. 13.03.2018  
Processing of refund application for UIN entities  
<http://cbec.gov.in/resources/htdocs-cbec/gst/circularno-36-cgst.pdf?sessionid=AC5A38C2AFEC536937AC1C802FACC2F8>

### Ministry of Commerce & Industry, DGFT

Public Notice 62/2015-20, dt. 16-02-2018  
Directives for processing of application for MEIS claims under Foreign Trade Policy 2015-20  
<http://dgft.gov.in/Exim/2000/PN/PN17/PN%2062%20english.pdf>

## Upcoming Indian Events

	<b>ALUCAST-2018</b> <b>06 - 08 Dec., 2018</b> <b>Delhi/ NCR, India</b> <a href="http://www.alucast2016.com/">http://www.alucast2016.com/</a>
	<b>67<sup>th</sup> Indian Foundry Congress</b> <b>18-20 January 2019</b> <b>India Expo Mart, Gr. Noida</b>

## Upcoming International Events

	<b>The Bright World of Metals</b> <b>2019</b> <b>25 - 29 June</b> <b>Düsseldorf/Germany</b> 14 <sup>th</sup> International Foundry Trade Fair with Technical Forum
	<b>Metal + Metallurgy China</b> <b>16-19 May, 2018</b> <b>China International Exhibition Center</b> <b>Beijing</b> <a href="http://www.mm-china.com/En/">http://www.mm-china.com/En/</a>

*Disclaimer: Although every care has been taken to ensure that information provided is correct, The Institute of Indian Foundrymen will not be responsible for any error or omission and it does not necessarily represent official opinion of the Institute of Indian Foundrymen*