

STAINLESS INDIA



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Indian Stainless Steel
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Indian Stainless Steel Development Association Celebrates its 25th Anniversary



Indian Stainless Steel Development Association Celebrated 25 successful years of formation in a grand event held in Delhi on 6-7th November 2014. This event was attended by more than 200 delegates comprising leaders from stainless steel industry, chrome, nickel and molybdenum industry.

The event was a crowning moment of the collective hard work, dedication and focused effort of the association and its member companies in diversifying the applications of stainless steel in India and increasing usage volumes in the country.

In his welcome address, Mr N C Mathur, President, ISSDA talked about the history of formation of the Indian Stainless Steel Development Association (ISSDA) which came into being in 1989 with the objective of diversifying and expanding the domestic market for stainless steel. He reminded the audience of the efforts put by ISSDA and its member companies in transforming the stainless steel production & usage in India, which had a production of just about 200,000 tonnes of stainless steel 2 decades ago primarily for the kitchenware market, has reached to nearly 3 million tonnes Crude Stainless Steel production and 2.4 million tonnes of consumption in 2013-14 positioning India as the second largest producer and third largest user of stainless steel in the world. Mr Mathur also said "I am glad that we are celebrating our 25th anniversary when the Indian government is making serious efforts to improve economic condition and support investment initiatives in the various sectors by pursuing policies of 'Make in India' and promoting exports through 'Made in India'." He also stressed on the fact that India's per capita consumption of Stainless Steel is far below the



Speakers from the Inaugural Session



Chief Guest, Mr Syedain Abbasi, Joint Secretary, Ministry of Steel & Chairman, JPC giving his speech



Mr Rattan Jindal, Chairman & Managing Director, Jindal Stainless Ltd., giving his speech

world average and India's GDP is likely to have healthy growth in the near future and major gainers will be Architecture, Building & Construction, Automotive Railways & Transport and Process/ Power Industries.

The guest of honor for the conference, Mr Syedain Abbasi, Joint Secretary, Ministry of Steel & Chairman Joint Plant Committee also congratulated the Industry for their successes and assured full support of the ministry to strengthen the growth of stainless industry. He also requested the association to sustain and multiply the good work that is being done.

During the event concerns were raised of rising import and dumping of stainless steel in India affecting the domestic stainless steel industries.

Speaking on the occasion Mr. Rattan Jindal, Chairman and Managing Director, Jindal Stainless Limited congratulated ISSDA for completing its 25th year of existence. He also requested industry to work together for the accelerated growth of stainless steel usage in the country.

The keynote speaker of the conference was Mr Markus Moll, MD, SMR - Steel and Metals Market Research and his presentation "Stainless Steel Strategy 2020 : The Indian Way, the Chinese Way ...or a Third Way" was the highlight of the event.

Several experts from various user sectors representing Nuclear Industry, Petrochemical Industry, Desalination & Waste Water Management Industry, Construction Sector and kitchen & Hollowware Industry spoke on the potential usage, challenges and offered deep insight in the likely growth areas of stainless steel in their respective sectors.

ISSDA firmly believe that in the ABC and ART sectors, they have largely initiated the curiosity for stainless steel. Newer sectors like household plumbing in thin-walled stainless steel and the water industry as a whole (potable water treatment, waste water treatment plants, large-dia pipes for carrying water), reinforcement bar for concrete, domestic



Mr Rattan Jindal, CMD, Jindal Stainless Ltd. receiving Trophy for Outstanding Contribution from Mr Syedain Abbasi, Joint Secretary, Ministry of Steel & Chairman, JPC



Mr Neeraj Kochhar, CMD, Viraj Profiles Ltd. receiving Trophy for Outstanding Contribution to SS Industry from Mr Markus Moll, MD, Steel & Metals Market Research



Mr Markus Moll, Managing Director, Steel & Metals Market Research giving the keynote address



Mr N C Mathur, President, ISSDA giving Welcome Address



A section of the Audience

and auto-LPG cylinders, automobile exhausts for two and four wheelers, bus bodies etc., should be the areas where benefits of use of stainless steel will be seen in times to come. The new initiative of present Government of India on building 100 smart cities, focus on improving sanitation & waste management facilities encourages us and ISSDA will continue its efforts to increase awareness on qualities of this very sustainable material so that it gets recommended for use in various categories under these infrastructure building initiatives.

ISSDA also recognized two Industry leaders, Mr. Rattan Jindal, CMD, Jindal Stainless Ltd and Mr. Neeraj R Kochhar, CMD, Viraj Profiles Ltd., for their outstanding contribution to the Stainless Steel Industry.

During the event ISSDA launched a special magazine documenting the Past and Present of Stainless Steel Industry as well as the role ISSDA and its member companies played in diversifying the use of stainless steel in the country.

In the vote of thanks Mr. Rohit Kumar, Director ISSDA, thanked all its Sponsors, Members and Participants from around the world for the grand success of this programme.



Dr Vivekanand Kain, Scientist & Professor, Bhabha Atomic Research Centre giving his presentation



Mr Tim Aiken, President, Nickel Institute giving his presentation



Speakers from Session 2 & 3

Stainless Steel Bus Shelters Reaching 2-tier Cities - A Dominos Effect



A Newly Built Stainless Steel Bus Queue Shelter at Patna, Bihar

Readers of this magazine can recall that very first group of stainless steel made Bus Shelters were installed in the National Capital, Delhi, more than a decade ago. Stainless Steel on account of its corrosion resistant, light weight structure, Aesthetics and cleanliness quickly became the first choice. Over the years, it remained maintenance free and did not require any regular paintings. Apart from this, these swanky Bus shelters became a popular place to put advertisements thereby neutralizing additional initial costs by just over a period of few years. Now this story has already been replicated into other metro and big cities in India.

The good news is that stainless steel bus shelters have now started gaining acceptance in tier II cities in the country.

Keeping pace with changing face of developing cities under the “city operational plan” mandated by ministry of urban development for running city service buses under Jawaharlal Nehru National Urban Renewal Mission (JNNURM), Bihar Urban Infrastructure Development Corporation (BUIDCo) is putting stainless steel bus shelters all over the capital city of Bihar.

Ozone Overseas Private Limited has already started installing 216 swanky queue shelters at 108 locations across the city. 82 Bus shelters have already been installed in various parts of the city. Each bus shelter uses about 1.5 tonnes of 304 grade stainless steel.

We believe that success story will keep on multiplying considering the fact that present Government of India has committed to build 100 smart cities in the coming future.



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Thickness : 1.0 mm to 6.5 mm



Welded Rectangular Hollow Sections/Tubes
Size : 20 x 10 mm to 200 x 100 mm
Thickness : 1.0 mm to 6.5 mm



Welded Round Tubes
Size : OD 12.70 mm to OD 76.20 mm
Thickness : 1.0 mm to 5.0 mm



Slotted Tubes (Single / Double Slots)
Size : OD 42.40 mm to OD 76.20 mm
Slot Size : 15 x 15 mm to 27 x 30 mm
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ACHIEVEMENTS

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AREA OF APPLICATION

- Construction and Architectural Design, Food and Pharmaceutical Industries, Offshore and Marine Industries, Metro Train, Railways and Bus Body Building, Process Machinaries, Nuclear Plants etc.

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ISSDA Workshop on Stainless Steel Usage in Pulp & Paper Industry at Kolkata

The Indian Stainless Steel Development Association (ISSDA) held a successful workshop in Kolkata on the usage and fabrication of stainless steel in pulp and paper industry with the help of Mr. Gary Coates, Technical Specialist, Nickel Institute. The workshop was held on Tuesday 25th November, 2014 at Hotel “TAJ BENGAL” Kolkata. About 40 professionals from pulp and paper and related industry attended the workshop. The participants were from below companies

- ITC Limited
- Larsen and Tubro
- Hiller Decanter
- Supreme Papers
- Kesoram Rayon
- Jindal Stainless Limited, Kolkata
- DSP Engineering
- BRG Group
- Anmol Stainless

The pulp and paper industry has seen more other benefits from development in stainless steel than any industry. The harsh chemicals used in the industry always calls for better material and full lifecycle cost of equipment is an increasingly important and necessary consideration. The aim of the workshop was to help and educate the industry with proper material selection and answer their problems, if any, with the use of stainless steels.

The entire session was divided into two parts. In the first session discussions were centered on the various usage of stainless steels in the pulp and paper industry and the types of corrosion generally encountered and how to reduce such occurrences.

The second session was on the review of various parts of pulp and paper mill vis-à-vis comparative choice of stainless steels available. It also included the other



Mr. Gary Coates conducting the workshop.

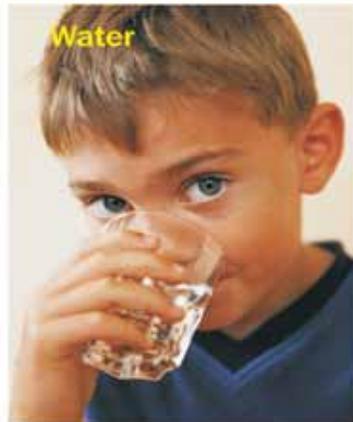
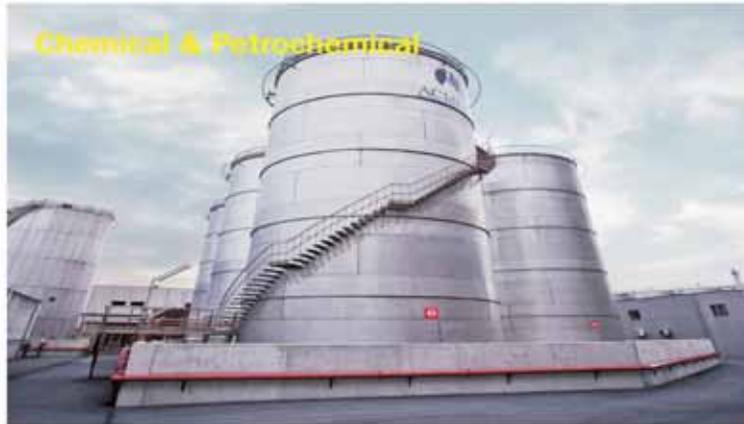
aspects on handling, forming and welding of stainless steels used in the pulp and the paper industry.

The workshop was very well appreciated by the group of audience and they look forward to such workshops in future which are a good knowledge gaining session for them.

“It has been a good experience to attend such workshop as a fabricator for various equipment used in Paper Industry”. Mr. P. Ojha, MD, Hiller Decanter

“We always look forward to attend such technical sessions for increasing our knowledge on usage of Stainless Steel in Pulp and Paper Industry” - Group of engineers from ITC.

Offering you a full palette of innovative stainless steel



We are the global leader in advanced materials, with our heritage going back over 100 years to the very invention of stainless steel.

We are in a unique position to work closely with our customers and partners around the world, to create materials for the tools of modern life.

We believe in delivering best in product quality and technical expertise while becoming even better at customer orientation, speed and reliability.

Outokumpu wakes every day with the mission to make its long lasting materials as sustainable as possible, because our goal is a world that lasts forever.

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Welcome New Member



SANVIJAY ROLLING & ENGINEERING LTD. (SREL), set up by its pioneer Mr. Puralal Agrawal, has grown from a modest trading firm in 1971 to be established as one of the country's biggest and most respected multi product player. After setting up its first Rolling Mill in 1991, today it has 6 Rolling mills with an installed production capacity of 4,80,000 mt per annum, and a Steel Melting Shop having infrastructure for special steels and **Stainless Steel** other than regular Mild Steel and High Tensile capabilities. The organization has also widened its horizon in areas of Sponge Iron (DRI) and Power generation by acquisition of Grace Industries Limited.

'Grace Industries Ltd' (GIL) is wholly subsidiary concern of SREL, of capacity 120000 mt/annum of high quality sponge iron and a captive power plant of 25 mw, coal base and 8 mw waste heat recovery base.

Sunrise Structural & Engineering Pvt. Ltd, (SSEPL) is sister company of SREL, having fabrication capacity of over 18000 mt per annum & galvanizing capacity of 24000 mt per annum.

The SREL group has turn over in excess of 1300 crores

Infrastructure:

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- AOD 35 mt
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- 300 series, 200 series, 400 series grades as per international standards.
- **As cast billets:** 100x100 mm to 300 x 300 mm
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- **As cast ingots:** 1 mt, 2 mt, 3 mt, 4.2 mt, 6 mt, 7 mt, 8.2 mt, 9 mt, 14 mt
- **Structural steel:**
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- **Channels-** 75 mm to 400 mm
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- **Rounds-** 6 mm to 150 mm
- **Ms/Ht equal, unequal angles-** of standards sizes

Contact Detail:

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9, Imambada Road, Nagpur- 440 018.
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Fax: +91 712 272 0716
Email: steel@sanvijay.com
Website: www.sanvijay.com

Welcome New Member



SBB Stainless Steel Fabrication is one of the leading fabricators from Tamil Nadu having more than 20 Years of Technical Experience and 12 years in Fabrication of Stainless Steel Staircase, Handrail's, Pillar Gladding, Brass Handrails, Copper Handrails & SS Gate and all kinds of SS fabrication works.

They are having following Specialized Machines For fabrication.

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- Pipe Bending machine- AK PAK -Italy.
- Round Pipe Polisher Machine- GRINDMASTER
- Square Pipe Polisher Machine- GRINDMASTER
- Pipe Notching Machine- FEIN GERMANY
- Milling Machine -ESTEAM BRAND WITH DRO
- We have sufficient Hand power Tool Matt Polishing and Pipe Polishing machine.

SBB is pioneer in fabricating with innovative design concepts. They have a team of technically qualified TIG welders and fitters. They have wide range of clients like Bharat Heavy Electricals Limited Trichy (BHEL), RR Thulasi Builders, SKM Egg Product, GMS Elegant Builders (I) Pvt Ltd, RamRaj Cotton Group of Companies

For SSB Stainless Steel Fabrication Contact :

Proprietor: A.Saravana Babu (+9193641-05545)
Mr. K.Ramachandran (Manager)

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Phone: 0424-2277545

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Web: www.sbbsfabrication.com

Welcome New Member



Shrioum Chemicals are the leading manufacturer & consultants in the field a Passivation Chemicals for the stainless steel and other metals since last 25 years. They fulfill the respective International conventions & standards for the passivation of metals & alloys.

Their extensive R & D contributes in quality, efficacy & individualized solution to the customers. Their

products are having role to guard the surface. It is used by many fabricators, process equipment manufacturers like pressure vessels, reactors and also by makers of precision component like fastener, surgical devices in stainless steel.

Their strength is the technology which facilitates to serve number of customer at a smaller manpower. Located strategically on National Highway no 4; just 6 hours away from Mumbai port ensures the quick and safety transport to customers abroad. They are also manufacturers of the tailor-made descaling solutions, welding catalysts and other diverse chemicals.

They are the trusted vendor of many corporate houses and look forward to offer you their solutions to reassure your quality & add more value to your products.

Contact Details:

Plot No. F -7, Old MIDC, Industrial Area, Satara, Pin - 415004, Maharashtra

Email : response@passivationindia.com

Website : www.passivationsurfacefinishing.com

Ph : + 91 - 2162 - 244430

Welcome New Member



Incorporated in 1994, Transformers & Rectifiers (I) Limited (T&R) has consolidated its position in the Indian Transformer Industry as a manufacturer of a wide range of transformers, which conform to the quality expectations of both the domestic and the international market. Company, popularly know as T&R and an ISO 9001 &14001 &BS OHSAS 18001 company, has executed a number of prestigious orders from countries such as Canada and the United Kingdom.

They are capable to develop world class power, distribution, furnace and specialty transformers through their world class infrastructure at three plants around the city of Ahmedabad Gujarat. This facility is equipped with world class state of



the art equipment and managed by a high skilled and experienced team of production personnel who consistently ensure that each and every production activity factors in an adherence to the high quality benchmarks established by the organization.

Their product ranges are

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- Rectifier Transformer
- Furnace Transformer
- Speciality Transformer
- Reactors

Contact details:

Registered Office & Plant

Transformers and Rectifiers (India) Limited

Survey No. 427 P/3-4, & 431 P/1-2,

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Taluka: Sanand, Dist. Ahmedabad-382213

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(Sr. Executive - International Marketing)

STAINLESS STEEL IN SMALL QUANTITY

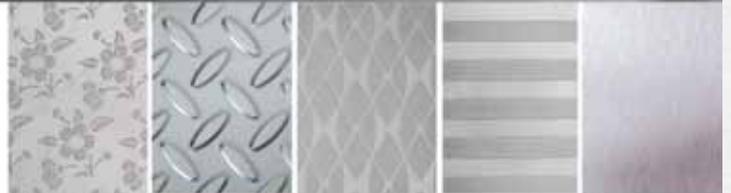
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Stainless Steel Used in Mars Orbiter Mission



Mangalyaan, the Mars Orbiter Mission (MOM), a spacecraft orbiting Mars since September 2014 was launched by Indian Space Research Organization (ISRO). It is first interplanetary mission by India. Also it is the first time that a maiden voyage to Mars has entered successfully. It has been a remarkable success considering the fact that it is one of the cheapest projects of its kind in the world.

Stainless Steel Industry in India has a reason to be excited and join the celebrations on successful completion and working of this project.

Steel Authority of India Ltd (SAIL), Salem Steel Plant (SSP), the producer of high quality stainless steel in the country, has contributed towards the historical achievement of MOM by providing stainless steel for fabricating the fuel and oxidizers tank of the PSLV-XL which carried Mangalyaan to the red planet, 65 crore kms from Earth. Stainless Steel 304L grade was used for the tanks. Describing the usefulness of the SS 304L SS sheets of 2 mm, 6 mm and 6.55 mm thickness in this mission, Group Head, Reaction Control System (RCS), ISRO, Shri V Krishnanandan has the following to say:

“PSLV is the work horse for Mangalyaan (Mars Orbiter Mission), Resource sat, IRNSS Satellite and other Polar Orbiting satellites. In each flight 2 nos of oxidiser tanks and 2 nos of fuel tanks are used. So far 3 tonnes of 2 mm thick sheets, 26 tonnes of 6 mm thick sheets and 6 tonnes of 6.5 mm thick sheets are used for PSLV launches, which are procured from Steel Authority of India, Salem. These sheets are better than International quality and meet the Aerospace requirements.”

It may be mentioned here that SAIL, Salem Steel Plant had earlier supplied stainless steel for the same purpose in the “Chandrayan” mission also. Indian Stainless Steel industry is thus a part of India’s quest for excellence in space, research and infrastructural development.

Attention Readers !

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