

STAINLESS INDIA

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**Indian Stainless Steel
Development Association**
L-22/4, DLF, Phase -II, Gurgaon 122 002



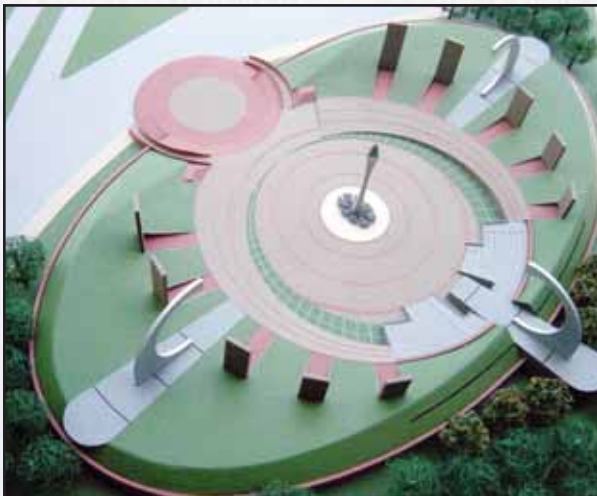
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Guru Tegh Bahadur Memorial in Delhi A Glowing Tribute in Stainless Steel



An overview of Memorial (Model)



One of the three Semi Arches, 15 meters tall, with stainless steel cladding



Central Pylon clad in stainless steel is 24 meters tall. The Lotus is elliptical with a mean diameter of about 8 meters.

Guru Tegh Bahadur Memorial

(from Page 1)

Guru Tegh Bahadur is the Ninth Guru of the Sikhs. Guru Tegh Bahadur's significance in the history of Delhi can be gauged by the fact that two historic Gurudwaras have been built in his memory in Delhi. They serve as important places of pilgrimage for those visiting Delhi. These are: 1) Gurdwara Sis Ganj where Guru Tegh Bahadur and three of his disciples were beheaded; 2) Gurdwara Rakabgang, his final resting place.

With the development of national highways, entry points into Delhi as the capital city of India, have acquired immense significance. The entry point on the historical Sher Shah Suri Marg called National Highway No.1 has been dedicated to the memory of Guru Tegh Bahadur. This memorial is a project of the Delhi Tourism and Transportation Development Corporation (DTTDC).

The inherent objective while designing this memorial was to provide an imposing landscape as a commemorative environment for visitors.

Some of the distinct features of this memorial are: The Central Pylon which is 24 meters high (Total weight - 16.5 MT including 3.5 MT of stainless steel). It is lit on top with lights bearing semblance to the Nishan Sahib and stand in memory of Guru Tegh Bahadur. The base of this Pylon comprises of a Lotus with 8 petals made of hand beaten Stainless Steel, elliptical in form, signifying selflessness, a sense of being able to give away without any expectations. His three disciples are represented by the three stainless steel semi-arches which are 15.7 meters high (total weight - 114 MT including 16.5 MT of stainless steel) placed in a semi-circular plan. The ten monoliths with dry granite cladding represent the ten Sikh gurus with their respective teachings engraved on them. All these elements of significance are composed in an elliptical landscaped bowl with green slopes.

The architectural play of sweeping green curves, geometric granite planes and imposing stainless steel forms create an aesthetic interplay of form and a serene environment.

The team of Stallion reviewed the architectural concept and drawings



The structural frame of the Lotus in the central pylon is made of 304 stainless steel

provided by the architect, and based on appropriate performance criteria, prepared the technical specification for the Lotus. Materials selection was based on the aesthetic factor, longevity, maintenance considerations and economics. A complex set of design calculations for structural viability were done. Detailed design drawings of the structures were made keeping in mind the needs of fabrication.

A total of about 21.5 Tones of stainless steel is used in this project. 19.5 Tones of 316L cold rolled sheets in 2.5 and 1.5 mm are used with No. 4 (satin) and No. 8 (mirror) finish. Three Tones of 304 grade structural members were used for the lotus frame.

According to Mr. Jose Kurian of DTTDC who saw the project through for the Government of Delhi, "Stainless steel

was chosen to clad the central pylon, the lotus at the base and the three arches to add grandeur and serenity to this important memorial. In my experience, stainless steel is the ideal material for such memorials that are expected to enthrall visitors needing only minimal cleaning to retain their pristine appearance for decades to come."

Fabricator:

M/s. Stallion System Pvt. Ltd (Mr. Ajay Shah, E-79 Mohammadpur, behind Bramhakumari Ashram, near Bhikaiji Cama place, New Delhi - 110 066
Tel: 935025589; Architect: Ar. Gurpreet Singh, M/s Aakar Design Consultants, Delhi. email: gurpreet@aakar.co.in; aakardel@gmail.com

Picture and copy courtesy:

Stallion System Pvt. Ltd., DTTDC.

From July 1, 2009

ISSDA and Nickel Institute offices are operating from L-22/4, GF, DLF Phase-II, Gurgaon 122 002, Haryana.

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Extend life of RCC Structures with Stainless Steel Rebar

Raajaratna Metal Industries Ltd, one of the leading manufacturers of stainless steel wires for the last 20 years, has now started manufacturing stainless steel reinforcement bar for concrete.

Conventionally, reinforcement bars are made of 0.2% Carbon steel. Corrosion of carbon steel reinforcing bar has been a serious issue around the world for many years. RAAJRATNA wishes to increase awareness of the benefits of solid stainless steel reinforcing bar as a high-strength, corrosion-resistant alternative rebar product in India. The obvious advantages of solid stainless steel reinforcing bar are extremely long life, excellent corrosion resistance and high strength with good ductility, good bond to the cement, no fragile coating, and no need of end caps. Stainless steel also enables the designer to optimise the use of concrete. This provides for best sustainable practice and ensures long-term durability for the reinforced concrete structure. Reduced maintenance during the service life design also improves overall sustainability credentials of the completed design. These are commonly used in construction of bridges, buildings in Europe, USA, Middle East, Australia and in other parts of the world.

Recent advances in concrete technology have provided structural designers with materials which can easily last more than 100 years, and the life of many concrete structures today is limited by the reinforcement. Improvements in the life of the reinforcement can translate directly into extended life of the structure. Raajratna can supply stainless steel reinforcement (Ribbed bar) in grades [304, 316, 316Ti, 1.4362 (Duplex), 1.4462 (Duplex) and 204 Cu] in diameters 3 to 16 mm. These reinforcement bars are cold worked to induce superior mechanical properties. All grades have minimum Yield Strength: 550 N/mm and minimum Elongation at fracture 15%. 204 Cu has higher minimum Yield Strength: 650 N/mm.

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Stainless rebars from Raajaratna



Tale of two bridges at Progresso in Mexico, A study in contrast

The bridge in the foreground in picture on the top (in shambles now) was built with carbon reinforcing bar in the 1960s and closed in 1982; only its remains are seen ! The bridge in the background was completed in 1941 with stainless steel rebar – 70 years old and good for another 20 years **WITHOUT ANY MAINTENANCE**.
Image below: Stainless rebar makes the bridge look much younger than its age.



Alloy

Nominal Chemical Composition of Alloys

304	Cr:18-20; Ni: 8-10; Mo:--; Cu:--; N: 0.11 max.
316	Cr: 16-18; Ni: 10-14; Mo: 2-3; Cu:--; N: 0.11 max.
316Ti	Cr: 16-18; Ni: 10-14; Mo: 2-3; Cu:--; N: 0.11 max; Ti: 5 X C min.
1.4362(duplex)	Cr:22-24; Ni: 3.50-5.50; Mo: 0.10-0.60; Cu: 0.10-0.60; N: 0.05-0.20
1.4462(duplex)	Cr: 21-23; Ni: 4.50-6.50; Mo: 2.50-3.50; Cu: 0.10-0.60; N: 0.10-0.22.
204 Cu	Cr:16-18; Ni: 1.50-3.00; Mo:--; Cu: 2-3; N: 0.25 max.

Modular kitchen with colourful stainless exteriors



Jindal Architecture Ltd, the architectural & design solutions subsidiary from the stable of India's stainless leader – Jindal Stainless, has launched its new retail outlet for Stainless Steel Modular Kitchens in Bangalore. The store located at Indiranagar offers a unique and stylish range of Modular Kitchens in different finishes, colours, designs, concepts, configurations and accessories, thus adding a new dimension to customers' experience of buying a modular kitchen. The range features island, straight and L-shaped kitchens in rich and vibrant colours like purple, green and the niche' Black & White combination and also one kitchen design in the traditional Indian way which is closer to nature. These kitchens are customized as per customers' needs and space availability. The most salient feature of this new range of designs is the beautiful and exquisite shutter designs developed in stainless steel with beautiful colours and finishes extended onto its external surface.

A true feast to the eyes, the beautiful colored shutter designs in stainless steel are all developed indigenously at Jindal Architecture's fully equipped manufacturing facility in Haryana. As per Mr S S Viridi, Director, Jindal Architecture Ltd, "This is for the first time in the modular kitchen history that complete kitchen in stainless steel with vibrant colours and catchy finishes have been created. Till now, we have been providing the inside surface as stainless steel but now even for the exterior we are offering stainless steel. The company is planning to expand soon in other parts in southern region in the near future."

This is the first retail store in southern India opened by Jindal arc and the company soon plans to **open some more exclusive kitchen showrooms in other important cities like Chennai, Hyderabad and Coimbatore. The company already has two exclusive modular kitchen stores in Delhi and Ahmedabad.**

Showroom addresses :

Bangalore:

Jindal Architecture Limited,
"Krishvi Aspire", Ground Floor,
No. 516, Chinmaya Mission



Hospital Road, Indiranagar,
Bangalore - 560 038.

Delhi:

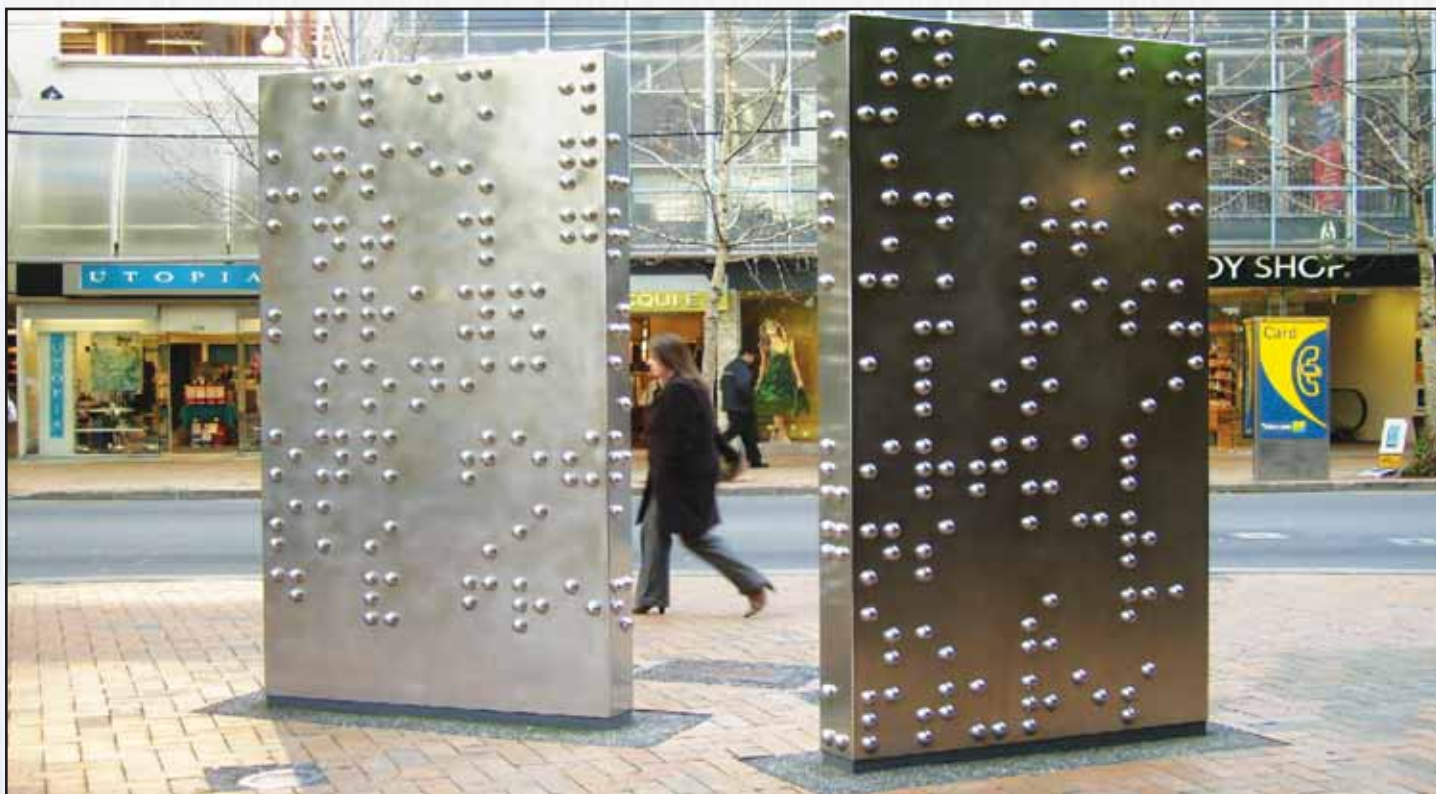
M -19, GK II, M Block Market
and G – 02, Select Citywalk,
Saket,
New Delhi 110 017.

Ahmedabad:

Shop No 228, Platinum Plaza,
Opp. IOC Petrol Pump, Bodakdev,
Ahmedabad.



Invisible City



Sculptor Anton Parsons has made a beautiful piece of art “invisible city”, a stainless steel sculpture having a hidden message in Braille. There is meaning here, but it is hidden to mundane people. This is ironic, because only those to whom most of the rest of the world is in shadow can actually read it. So this sculpture introduces a little bit of mystery into the suity humdrum of city life —. This is always a good thing.

Made up of stainless steel grade 316 and surface finished using ‘Swirly Brush’, the complete structure looks astonishing with a huge size of 1.2 m width and 2.2 m height. It is located in the corner of

Lambton Quay & Grey Street in Wellington, New Zealand.

The stainless steel of this sculpture seems to glow with an inner light. The magnified Braille text suggests a message, but the artist chooses to deny us access, raising issues of communication in the contemporary world, and the difficult interface between the disabled and the rest of the community.

Invisible City is an appropriate public work because it functions on several levels: Aesthetics – even without understanding that the dots on the two

boxes are Braille text, Invisible City is an aesthetically pleasing object – it doesn’t have to be read to be appreciated. Tactile – it is made to be touched. Surface – Invisible City is polished stainless steel, and reflects its surroundings. When looking at it you see a reflection of Wellington.

This beautiful sculpture was presented to the city with assistance from the Jack and Emma Griffin Charitable Trust and the Wellington City Council.

Image and information courtesy Ms. Amy Schultz, ‘Wellington Sculpture Trust’, New Zealand.

News on Opportunities for Stainless Steels

The new metro coach called “BOMBARDIER MOVIA” which is 22.50 meters long and 3.2 meters wide is loaded on a Antonow An-124 plane for transport to India on February 25, 2009 in Parchim, Germany. Bombardier is producing 36 cars for the new underground train network in New Delhi, and will produce further cars at an assembly plant in India. The Goerlitz Bombardier factory, located in southeastern Germany, is the biggest employer in the region and also produces passenger cars for Deutsche Bahn.



The World's Largest Dragon in Stainless Steel



Kevin Stone is a sculptor and the owner of Metal Animation Studio Inc., located in Chilliwack, British Columbia, Canada. Metal Animation Studio is a company dedicated to building the "largest stainless steel sculptures in the world". Created with over 20 years of metal fabrication experience, Kevin's pieces are designed to inspire awe and simply amaze spectators upon viewing. His sculptures are handmade from 16 gauge 304 grade stainless steel, then ground and polished to a full # 8 mirror finish.

Kevin began stainless sculpture about 5-1/2 yrs ago, after an employer asked if he could build a gargoyle sculpture for the roof top of their building. Kevin completed the gargoyle in about 3 months just working with left over stainless steel scrap around the shop. The result was that Kevin "found stainless steel to be a wonderful and beautiful material to work with for making art". He now works full time from his

studio at home is now working on his fourth (large scale) stainless steel sculpture.

Kevin worked on the Chinese Water Dragon for almost two years, "again using stainless steel as his chosen medium". This is the world's largest stainless steel Chinese dragon. The sculpture stands 12 ft tall, weighs 6000 lbs and over 85 ft long from head to tail.

The Chinese Water Dragon was open to public on April 25, 2009, with a great turnout of almost 2000 people. The event drew great support from the City Council, Chilliwack tourism, local art groups and a speech from the Chilliwack Mayor Sharon Gaetz. Kevin has three sculptures on display at the studio in Chilliwack and is open seven days a week for the public to come and see and take pictures of these wonderful pieces before they sell.

DISCLAIMER

Drawings / photographs of equipment, machinery, products and services in STAINLESS INDIA are for illustrative purposes only and their inclusion does not constitute or imply any endorsement, of the items or the companies that manufacture or distribute them, by ISSDA and its staff.

Utmost effort is put into ensuring that there is no infringement of copyright or IPR. In spite of our best efforts, sometimes incorrect information creeps in, mainly because we have faith in those who contribute articles/images for us. Any such error, if at all, is deeply regretted. If pointed out, we have no qualms in admitting our error and publish an apology in an effort to appease the aggrieved party.

Indian Standard for Low-nickel austenitic stainless steels A development that will greatly help Indian kitchenware exporters

The Bureau of Indian Standards approved the inclusion of specifications of Low-nickel austenitic stainless steel sheet and strips for kitchen utensils and kitchen appliances in a new Indian Standard. This standard is exclusively for low-nickel austenitic stainless steels and will bear a new number (not IS: 5522) and would be available from the Bureau shortly.

This decision was taken at a meeting of the Alloy Steel & Forging Sectional Committee, MTD-16, in Joint session with Low-nickel stainless steel for utensils committee (MTD16-1) held on May 5, 2009 in Delhi. The meeting was Chaired by Dr. Anil K. Gupta, Director, Advanced Materials and Process Research Institute, Bhopal.

At the request of ISSDA, a panel of three was appointed to revise IS: 5522 (Stainless steel sheet and strips for utensils - second revision) to include AISI 430.

Low-nickel stainless steels were introduced in the 1980s. It has taken a huge amount of time and energy and Rs. 20 lacs to finally establish Indian Standards for these grades. The inclusion of these grades should help exporters of kitchenware and appliances to convince importers that they are supplying materials complying with Indian Standards.

ISSDA is very thankful to all those who have contributed over the years to this Herculean task. In particular, ISSDA sincerely thanks Mr. K R Ananthanarayanan, a stainless steel consultant based in Bangalore for his dedication, unremitting hard work and use



K R Ananthanarayanan

of his extensive technical expertise in accomplishing this Indian Standard. Mr. K R Ananthanarayanan was formerly with SAIL, Salem Steel Plant in their Products & Applications Department.

THE FOLLOWING THREE GRADES OF LOW-NICKEL AUSTENITIC STAINLESS STEEL ARE APPROVED BY THE BUREAU OF INDIAN STANDARDS (BIS).

Grade Designation	Nominal Composition (in %)
N 1	C max 0.12; Cr 14.5-16.0; Ni 1-2; Cu 1.5-2.5; N 0.08-0.2
N 2	C max 0.10; Cr 15.5-17.0; Ni 1.5-3.5; Cu 2-4; N 0.10-0.25
N 3	C max 0.09; Cr 16.0-17.5; Ni 4-6; Cu 1.5-2.5; N 0.05-0.15

Welding Stainless Steel With Flux Cored Wire

Stainless Steel Flux Cored Wire is not a very commonly used product by the stainless steel welding industry in India. However, this is extensively used in Europe and North America because of the immense benefits and advantages stainless steel flux cored wires offer. Percentage share of stainless steel flux cored wire usage in Europe, North America and India is given in the table above: No authentic data is available about usage of FCW in India.

The only disadvantage of stainless steel flux cored wire against stainless steel covered electrodes is that it is not economical for small jobs. If you consider the improved productivity, cost control and assured quality that stainless steel flux cored wires offer, a rapid growth of this product in the Indian market can be safely assumed. Since the usage of stainless steel in India is increasing at about 10% per annum,



Region	Stainless steel flux cored wire usage as percent of total SS welding consumable use	Other stainless steel welding electrodes usage as percent of total SS welding consumable use
Europe	75%	25%
America	80%	20%
India	5 - 10%	90-95%

it would be useful to understand the benefits of using stainless steel flux cored wire for fabrication. Flux cored wire welding is a Metal Active Gas (MAG) process which uses CO₂ gas which is a lot more economical compared to inert gas mixtures used in TIG and MIG processes. Advantages of stainless steel flux cored wire against

stainless steel covered electrodes, stainless steel TIG & MIG wire are given in the table below:

Article By : M/s. Royal Arc Electrodes Limited Malad (West), Mumbai, India
email_royalarc@vsnl.com
www.royalarc-welding.com

Welding materials compared with	Merits of Using Stainless Steel Flux Cored Wires	
COVERED ELECTRODE (SMAW)	<ul style="list-style-type: none"> • Higher welder efficiency • Less spattering • Good bead appearance 	<ul style="list-style-type: none"> • Slag removal easier • High productivity • Low labour cost
TIG Rod (GTAW)	<ul style="list-style-type: none"> • Higher welder efficiency • Much higher deposition rate • CO₂ gas (lower gas cost) 	
MIG wire (GMAW)	<ul style="list-style-type: none"> • Higher deposition rate • Less voltage sensitivity • Less spattering • CO₂ gas (lower gas cost) 	<ul style="list-style-type: none"> • Good bead appearance • Easy to make multi-pass welding • No oxidized surface

Note : Royal Arc Electrodes Ltd is the first and only indigenous successful manufacturer of various types of stainless steel flux cored wires in India

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Amardeep Seating Systems is an accredited manufacturer for complete range of seating systems. We are in the industry over a decade and have a full-fledged factory at Daman with all state-of-the-art machinery and equipments. We are well known for our quality and service amongst our customers and are proud to be associated with most of the prestigious institutions, corporate houses and architects in India.

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banking; Tata AIG in life insurance; fast food chains like Dominos and Baskin Robbins; major corporations like General Motors, JSW Steel Ltd, Colgate Palmolive, Grasim Industries Ltd; and in retail outlets like Shoppers Stop Ltd.

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www.amardeepchairs.net

Suraj Metal Corporation



M/s Suraj Metal Corporation has come a long way ever since its establishment in the year 1972 by Mr. Surajmalji Mehta (BA, LLB), Past President-METAL AND STAINLESS STEEL MERCHANT ASSOCIATION (MASSMA), MUMBAI and has carved a niche for itself in the industry.

We specialize in the trading business of stainless steel products mentioned below:

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for these industries and plants. As a customer oriented company, we aim at providing the best services and above-mentioned materials to the clients, and constantly improve our services with each passing project. Our company is growth oriented and has well laid out plans for expansion in the future. What gives us an added advantage over other players operating in the similar area is our competitive prices and timely delivery of the products.

Contact : Mr. Kishor S. Mehta-Partner
M/S SURAJ METAL CORPORATION
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FAX: 91 22 23876348.
MOBILE: 009821050477
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Web: www.surajmetal.com

ESAB's New Generation Stainless Steel Wires for MIG Welding

Using an innovative drawing process, ESAB has developed solid stainless steel MIG welding wires that feature a matt surface appearance. The matt surface is finished with a special feed-aid that does not accumulate within the feeding system or welding gun, and has no adverse effect on the quality of the finished weld.

These wires provide improved welding properties and lead directly to enhanced MIG welding performance. For example, the matt surface allows the feed rolls to gain a better grip on the wire and so eliminates troublesome slippage. The manufacturing process gives improved

glide and stiffness which results in a minimum wire feed force. Furthermore, strict control of the cast and helix - both of which are important properties for spooled wires - leads to additional benefits.

Taken together, these product characteristics give the new wires improved feedability and a stable welding arc, resulting in dependable performance for the MIG process, consistently high weld quality, and minimal post-weld cleaning. The wires are available in a range of diameters. They are supplied in 15kg basket spools for sem



automatic welding and 250 or 475kg MarathonPac bulk drums for mechanized and robotic welding.

Contact : +91 44 43404690 or
e-mail to: wcmkt@esabindia.com

ELEGANT CHENNAI

Singara Chennai (elegant Chennai) was the expression coined by the then Mayor of Chennai Corporation as words of motivation for the Corporation officials. All the concerned departments in the Tamilnadu Government have been activated intensively to bring the Singara Chennai concept into reality.

The side walls in the main thoroughfares in the city have been cleaned and attractive paintings depicting Tamil culture, picturesque landscape or natural surroundings. Medians and circles at many road junctions present bronze statues, again portraying characters

representing rural Tamilnadu and characters from Tamil literature. Marina, one of the world's largest beaches, is getting a major facelift at substantial cost.

Our delightful metal stainless steel has its own role to play in this transformation of the urban metropolitan city. Recently, the corporation erected police canopies in stainless steel at ten prominent intersections. This was received well by the society and the state polity. Now, M/s Sreevatsa Stainless Steel Fabricators P Limited, the most experienced and respected stainless steel fabricator from Chennai, has been given a **repeat order**

for another 40 canopies which will very shortly decorate forty more signals and protect exhausted sergeants at main intersections. **M/s Sreevatsa also have been awarded prestigious contract for around 3 Kms of stainless steel handrail at Marina Beach.**



ISSDA'S STAINLESS NEW OFFICE IN GURGAON



Reception Area



Side Entrance



Double Door at the Main Entrance

Interiors Designed by Studio '9491'
Ar. Raman Shukla
011-2612 5593

From July 1, 2009

ISSDA and Nickel Institute offices are operating from
L-22/4, GF, DLF Phase-II, Gurgaon 122 002, Haryana.
Phones: 91-124 4375 501, 02, 03
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Conference Table for 10



Dining Table for four

ISSDA celebrates its 20th Anniversary

12th World Stainless Steel Conference
jointly organized by ISSDA and CRU
22-24 November 2009
Hotel Trident Nariman Point, Mumbai

The most prestigious industry event for the global stainless steel community will cover all the latest key issues. Senior executives from the most influential global stainless steel companies will be taking part and sharing their vision for the industry.

PROGRAMME DETAILS

Confirmed speakers include :

Virbhadra Singh, **Minister of Steel, Government of India**
Ratan Jindal, **Managing Director and Chief Executive Officer, JSL Ltd**
Senior Executive, **TISCO (TBC)**
Andrea Gatti, **Corporate Vice President - Corporate Development, Outokumpu**
Pascal Payet-Gaspard, **Secretary General, ISSF**
Nirmal C Mathur, **President, ISSDA**
Stephen Barnett, **President, Nickel Institute**
Dr David Fernandez, **Managing Director, Emerging Asia Research, JP Morgan**
Robert Yildirim, **President, Eti Krom Inc.**
Alex Tonks, **Analyst, Citi Investment Research**
Alistair Ramsay, **Senior Consultant Carbon Steel, CRU Analysis**
Brad Beauchamp, **Vice President, Global Stainless Corporation**
Sam Desai, **RM Metals**
Nitaj Shah, **Senior Researcher, Centrum Broking**
Ravinder Sethi, **Director, Mindsight Management Consultants**
Indian Railways *
Metro rail coach manufacturer *
***(confirmation awaited)**

More details to follow.... If you wish to receive regular updates on this conference, send your contact details at nissda@gmail.com

Sponsorship Opportunities:

Sponsoring the event will enhance your company brand recognition in front of an extensive high-profile audience of stainless steel executives. As our delegates are drawn from across the value chain, Sponsoring the event provides a unique platform for companies involved in this business area to promote their services, technology and/or products.

Registration Fees

Rates are applicable only for companies located in India

ISSDA members: Rs 8,000 Non-members: Rs 9,500

Contact ISSDA for Registration and Sponsorship Opportunities.

Indian Stainless Steel Development Association

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Tel: 0124-4375-501,02,03

Fax: 0124-4375509; website: www.stainlessindia.org

E-mail: nissda@gmail.com

Overseas companies, please contact www.worldstainlesssteel09.com

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EVENTS

22 November
Welcome Reception

23 November
Main Conference
Networking Lunch
Gala Dinner

24 November
Main conference
continues
Networking Lunch

25 November
Site-seeing tour

HOTEL DETAILS

Please contact ISSDA for room tariff at the Trident and other hotels near the venue.



The technical and market development arm of the Indian stainless steel industry.