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 in Delhi
A Glowing Tribute in Stainless Steel

Continued on Page 2
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 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 Mohamadpur, behind Bramhakumari Ashram, near Bhikaiji Cama place, New Delhi - 110 066 Tel: 9350255889; 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.
Phone: +91-124-4375-501 to 503,
Fax: +91-124-4375-509
Email: nissda@gmail.com
Web: www.stainlessindia.org
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. RAJARATNA 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. 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.

**Contact:**
Manish Sanghvi
M/s Raajratna Metal Ind Ltd
909 Sakar III, Income Tax
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Ph: +91 79 27543681/82/83
Mob: +91-98-25122299
Mail: manish@raajratna.com
Web: www.raajratna.com

**Nominal Chemical Composition of Alloys**

<table>
<thead>
<tr>
<th>Alloy</th>
<th>Nominal Chemical Composition of Alloys</th>
</tr>
</thead>
<tbody>
<tr>
<td>304</td>
<td>Cr:18-20; Ni: 8-10; Mo:--; Cu:--; N: 0.11 max.</td>
</tr>
<tr>
<td>316</td>
<td>Cr: 16-18; Ni: 10-14; Mo: 2-3; Cu:--; N: 0.11 max.</td>
</tr>
<tr>
<td>316Ti</td>
<td>Cr: 16-18; Ni: 10-14; Mo: 2-3; Cu:--; N: 0.11 max; Ti: 5 x C min.</td>
</tr>
<tr>
<td>1.4362(duplex)</td>
<td>Cr:22-24; Ni: 3.50-5.50; Mo: 0.10-0.60; Cu: 0.10-0.60; N: 0.05-0.20</td>
</tr>
<tr>
<td>1.4462(duplex)</td>
<td>Cr: 21-23; Ni: 4.50-6.50; Mo: 2.50-3.50; Cu: 0.10-0.60; N: 0.10-0.22.</td>
</tr>
<tr>
<td>204 Cu</td>
<td>Cr:16-18; Ni: 1.50-3.00; Mo:--; Cu: 2-3; N: 0.25 max.</td>
</tr>
</tbody>
</table>
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 Virdi, 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.
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.

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.
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 there 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 turn out 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.

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

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 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.

K R Ananthanarayanan

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

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

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, 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

<table>
<thead>
<tr>
<th>Region</th>
<th>Stainless steel flux cored wire usage as percent of total SS welding consumable use</th>
<th>Other stainless steel welding electrodes usage as percent of total SS welding consumable use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe</td>
<td>75%</td>
<td>25%</td>
</tr>
<tr>
<td>America</td>
<td>80%</td>
<td>20%</td>
</tr>
<tr>
<td>India</td>
<td>5 - 10%</td>
<td>90-95%</td>
</tr>
</tbody>
</table>

Welding materials compared with

<table>
<thead>
<tr>
<th>COVERED ELECTRODE (SMAW)</th>
<th>Merits of Using Stainless Steel Flux Cored Wires</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Higher welder efficiency</td>
<td>• Slag removal easier</td>
</tr>
<tr>
<td>• Less spattering</td>
<td>• High productivity</td>
</tr>
<tr>
<td>• Good bead appearance</td>
<td>• Low labour cost</td>
</tr>
</tbody>
</table>

TIG Rod (GTAW)

| • Higher deposition rate  | • Good bead appearance |
| • Much higher deposition rate | • Easy to make multi-pass welding |
| • CO₂ gas (lower gas cost) | • No oxidized surface |

MIG wire (GMAW)

| • Higher deposition rate  | • Good bead appearance |
| • Less voltage sensitivity | • Easy to make multi-pass welding |
| • Less spattering         | • No oxidized surface |
| • CO₂ gas (lower gas cost) |                           |

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

with Sandvik duplex stainless steels

When you compare Sandvik duplex stainless steels with conventional stainless steels, you'll find there's no comparison at all. Duplex steel offers superior yield strength than conventional steels. This allows for lighter constructions and more compact system design. Equally important, duplex's high corrosion resistance ensures significantly more uptime. With its lower life-cycle costs, duplex also makes financial sense. So why not take the lead with Sandvik duplex stainless steels?

The Sandvik duplex evolution

Sandvik Asia Ltd.
Sandvik Materials Technology, Mumbai Pune Road, Dapodi, Pune 411012
Phone No. 020-30634561, Fax 020-27103132, 27146905,
Email: soel.india@sandvik.com

www.smt.sandvik.com
Welcoming New Members

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.

Our factory has a capacity of manufacturing over 10000 chairs a month. Our main products include revolving chairs suitable for offices, cafeteria and banquet chairs, lounge chairs, tandem seating, conference tables, cafeteria tables suitable for waiting areas such as hospitals, airports, railways etc, school furniture and sofas to suit every home and industry. We are specialized in designing stainless steel products and are giving the options of best brush, stain and mirror finishes and MS powder coating options in different colors.

Amardeep Seating Systems is managed by a highly professional and qualified managerial staff and supported by an equally dedicated team of skilled and unskilled work force. Our company is committed to the ideals of manufacturing and delivering the latest and best quality products to our customers. Our quality matches the sophistication and design required at each prestigious project.

QUALITY POLICY

We are committed to enhance customer satisfaction through excellent product quality, product innovation and competitive prices.

Our products are being used by high profile customers like SBI and HDFC in 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.

Contact:
Mr Deepak N Shah, Managing Director
M/s Amardeep Seating Systems
A/103, Sanjay Bldg, No.5, Mittal Estate Andheri Kurla Road, Andheri (E), Mumbai 400 059, Tel: 91-22 28508010/28509662 Fax: 91-22 28509131.
email: amardeep@amardeepchairs.com
www.amardeepchairs.net
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:

1. ERW/Seamless Tubes & Pipes, Hollow Sections
2. Round Bars, Bright Bar, Forged Bar
3. Sheets & Coils, Foil, Plates
4. Flanges and Fittings
5. Scrap

We undertake new projects, project expansion plans and routine maintenance 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 21, 2nd Carpenter Street MUMBAI 400 004 (INDIA) TEL: 91 22 23866919, 23895697 FAX: 91 22 23876348, MOBILE: 009821050477 E-mail: info@surajmetal.com 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 semi-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

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 Tamil Nadu 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 Tamil Nadu 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
Fax: 4375 509

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
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