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India's tallest stainless steel structure

The 33-metre high gateway, India's tallest architectural marvel in stainless steel, weighing approximately 20 tonnes, is installed at the upcoming 1,000 MW super thermal power plant at Raigarh, Chhattisgarh. The sculpture is conceived by M/s Kamath Design Studio, Delhi, who specialize in contemporary art and architecture, particularly "mud" sculptures and buildings. It is a poetic expression of mathematical form. The geometry of the hyperbolic paraboloid is explored and composed to form a "gateway", symbolizing the roaming spirit of humanity, creating space within the infinite space. As the line transforms into a curved surface, the transformation of energy is evoked visually and spatially into perceptible reality. The Architectural Division of Jindal Stainless Ltd undertook the turnkey design detailing, fabrication and erection of the project. The gate structure consists of pipe frames joined together with connections in a



hyperbolic paraboloid shape. The division is fully equipped to provide assistance to anyone seeking solutions in stainless steel fabrication. *Contact details of the fabricator:* Jindal Stainless Ltd (Architectural Division), Plot No. 64 / 65, 2nd floor, Phase IV, Udyog Vihar, Gurgaon – 122 016, Haryana; Tel: 0124-4127 700; Fax: 0124-4127 777; E-mail: info@arc.jindalsteel.com; Web: www.jindalarc.in



ISSF Releases New Stainless Steel Forecast

China to be the world's largest producer in 2006

(Source: ISSF website www.worldstainless.org)

The International Stainless Steel Forum (ISSF) has released its forecast for stainless steel production in 2006. ISSF believes that production in 2006 will show an improvement on 2005 in the traditional markets. Further strong growth is expected in Asia, mainly driven by China. ISSF expects stainless steel production to reach 26.4 million metric tons (mmt) in 2006, an increase of 8.6% on 2005.

The growth rate of 8.6% is above the long term average and includes strong compensation for the production losses which occurred in many countries during 2005. These losses were caused by significant reductions in stainless steel stocks at service centres and fabricators. Actual global stainless steel production decreased by 1.0% to 24.3 mmt in 2005.

Asia is the by far largest stainless steel producing area in the world. In 2005, Asia was the only major area with an increased stainless steel production (+5%). ISSF expects further growth of 10% in Asia during 2006 as new capacities come on-stream. ISSF anticipates that China will become the world's leading stainless steel producer in 2006. In the Asia region in 2005, only China and India showed continued growth. However, in 2006 ISSF expects that stainless steel production in all Asian countries will grow.

The second largest stainless producing area is Western Europe/Africa. This region was hit by production losses in the second half of 2005 when severe cutbacks in demand caused service centres and fabricators to reduce stocks. Production decreased by 6.4% to 8.8 mmt in 2005. ISSF expects a strong recovery in the region during 2006 to compensate for the 2005 production losses. Western European/African stainless crude steel production is expected to rise by 7.1% to 9.5 mmt in 2006.

For the Americas, ISSF expects a strong recovery in stainless steel production in 2006 with an increase of 6.0% to 2.9 mmt. In 2005, production in the Americas decreased by 8.3% to 2.7 mmt.

Central and Eastern Europe will see a recovery to 2004 production levels.

The high raw material prices together with the current high volatility of the nickel price create concerns for substitution. However, for some applications there is a potential for application of low/no-nickel-grades.

(in '000 metric tons)							
Region	2004	2005	+/- %	2006 (e)	+/- %		
Western Europe / Africa	9,422	8,823	-6.4	9,480	7.4		
Central and Eastern Europe	318	310	-2.5	320	3.2		
The Americas	2,933	2,689	-8.3	2,850	6.0		
Asia	11,897	12,498	5.1	13,750	10.0		
World Total	24,570	24,320	-1.0	26,400	8.6		

Stainless and heat-resisting crude steel production (in '000 metric tons)

Source: International Stainless Steel Forum

(ISSF)

ABC Workshops

ISSDA along with the Nickel Institute (NI) will be organizing a series of four workshops this year on the applications of stainless steel for the architecture, building & construction (ABC) sector. Ms Catherine Houska, Consultant to the NI, will be making presentations in these workshops. The workshops will be held during the morning session and conclude with lunch. Details of the programme will be put on <u>www.stainlessindia.org.</u>

ISSDA will send invitations to architects, builders, interior designers, engineers, civic authorities, urban planners, infrastructure personnel from airports, highways, sea ports, railways and other facilities and stainless steel industry personnel to attend the workshops. Participation will be only by invitation. There is no fee for attending the workshops. Any one interested in these workshops, please contact us with your professional background.



Mr Barry Waters, Group Director, Nickel Use Support & Development, NI



Ms Catherine Houska, Consultant to NI

Delhi - Nov. 28, 2006 - Auditorium, India International Centre, Lodhi Estate.
Mumbai - Nov. 29, 2006 - Salcette I & II, Taj Lands End, Bandstand, Bandra.
Hyderabad - Dec. 1, 2006 - Kohinoor I, Taj Residency, Banjara Hills.
Bangalore - Dec. 2, 2006 - Convention Hall, Grand Ashok, Kumara Krupa.

Would you like to feature your stainless steel products or services in STAINLESS INDIA? Send us your write-up along with attractive colour images.

SSP to melt and expand HR to 370,000 TPA

The Board of Directors of Steel Authority of India Ltd (SAIL) today approved a proposal for expansion of Salem Steel Plant (SSP) in Tamil Nadu at an indicative cost of Rs 1,553 crore. The expansion plan envisages installation of steel making facilities, including a continuous slab caster, and expansion of the plant's cold rolling capacity. The capacity addition, proposed to be completed within 36 months, will enable SSP to take advantage of the growing global stainless steel market.

Presently, SSP does not have steel making facilities and is entirely dependent on external sources for supply of stainless steel slabs. This has been one of the main factors affecting its sustained profitability. The new steel making facility, with the capacity to produce 180,000 tonnes of stainless steel slabs per annum, will create input security for SSP and position it to

become cost competitive. The steel making facility will include a 50-tonne electric arc furnace, 60-tonne AOD convertor with ladle furnace and single-strand slab caster.

The expansion of SSP's cold rolling mill is expected to help improve the plant's market share in the value-added growth segment of the stainless steel market. SSP's cold rolling capacity will go up from 65,000 tonnes to 146,000 tonnes per annum with the addition of an annealing and pickling line among other facilities as part of the expansion plan.



SSP's expansion plan also has the provision for installation of an additional grinding machine in its hot rolling mill that produces 180,000 tonnes of coils/sheets per annum presently. SAIL's Corporate Plan 2012 envisages dedicated supply of 190,000 tonnes of stainless steel slabs to SSP from Alloy Steels Plant in Durgapur per annum. SSP's hot rolling mill will therefore be able to process 370,000 tonnes of slabs annually.

(Source: Press release from SSP, <u>ssprd@hotmail.com</u>)

Viraj Alloys Limited Beefs up Capacity

M/s Viraj Alloys Limited, a prominent producer of stainless steel long products, has expanded its capacity from 140,000 TPA to 250,000 TPA at its facility in Khopoli in the outskirts of Mumbai.

The additional capacity comes from the installation of two induction furnaces of 25T each and one AOD furnace of 50T capacity. A state-of-the-art wire rod mill of 10,000 TPM supplied by VAI POMINI. s.r.l. Italy, produces wire rods in sizes 5.5 mm to 34 mm in 2 tonne coils.

Viraj forayed into production of stainless steel bright bars and flanges with a limited capacity in 1996. In 2004, they exported 98% or their production in the form of forgings and flanges, angles, flat bars, bright bars, wire rods and wires in all grades – austenitic, ferritic, martensitic, duplex and precipitation hardening. Their export earnings in 2005-06 were USD 300 million. Viraj's plans are to become the No.1 stainless steel long product producer in the world and a one-stop shop or a "supermarket" for stainless steel products. In the coming years, they plan to further increase their melt capacity by 250,000 TPA and install a slab caster steel mill and cold rolling facility. (www.viraj.com)



PM Balasubramanian is the new ED for SSP

Mr PM Balasubramanian has assumed charge as Executive Director of SAIL's Salem Steel Plant (SSP), with effect from April 1, 2006. He was earlier GM in-charge at SSP.

He joined Bokaro Steel Limited in 1972 before he moved to Salem Steel Plant in 1978. He worked in different sections of Cold Rolling Mills Operations in SSP and brought in several improvements and innovations before he became its Head. Later he took over Technical Administration in April 1996 and rose to the rank of GM (Works) in April 2002.

He has received the "Excellent Manager Award" from the Forum for Andhra Pradesh Central Public Undertakings, Hyderabad in 1986 and SAIL's prestigious Jawahar Award for 'distinguished executive' in 1994. Under the dynamic leadership of Mr Balasubramanian, Salem Steel Plant is poised to scale newer heights of growth and profitability. (Source: Press release from SSP)



Airport modernization – a boon for Indian stainless steel industry

The country's airports are set to undergo a sea change. Two new airports at Bangalore and Hyderabad are going to come up. The Delhi and Mumbai airports are undergoing major expansion. Similarly the Chennai and Kolkata airports are also going to be modernized. In addition, 35 non-metro airports are going to be modernized and upgraded.

ISSDA is proud that nearly every conceivable product needed by the construction industry is now available in



stainless steel in India. There are several specialist product suppliers and fabricators and installers in India.

ISSDA is in touch with the concerned agencies, both public and private, highlighting the indigenous stainless steel industry's capabilities. ISSDA hopes that the stainless steel industry in India starting from the primary producers to downstream processors and the architectural fabricators will meet up the challenge of modernizing and constructing over 40 airports in the country.

Coal / Ore / Mineral Wagons to be Only in Stainless or Aluminium

During the budget session in the Parliament in February this year, the railway minister announced that that all future orders of wagons for hauling coal, ore and minerals would be in stainless steel and aluminium. No more corten steel (weather resisting micro-alloyed carbon steel) wagons for this service.

This major decision on materials of construction of ore/coal wagons is rooted in the history of performance of wagons. Typically, corten steel wagons in this service start requiring patch up repairs within 3-5 years. Given the harsh climatic conditions and the highly abrasive nature of the load, this patch-up has to be done periodically, until the wagon is declared totally unfit for any further repairs. Such repeated repairs and maintenance kept the metals and ore-processing industries perennially short of wagons.

The significant import of this decision is that Indian Railways (IR) has applied Life Cycle Costing (LCC) approach to material selection. IR is aware that wagons in new materials will initially cost more than corten steel, but the expected payload to tare (empty wagon) weight ratio of 4:1 instead of 2.5:1 for corten will greatly offset the higher initial cost. For instance, a one-tonne rise in loading per wagon will lead to 12 million tonnes of incremental loading annually.

Moreover, wagons made of stainless steel and aluminium being corrosion resistant, require very little maintenance and will last a long time without any loss of production (haulage) due to maintenance. Wagon availability will be greatly increased.



Ema Vasdev NEW DELHI 10 FEBRUARY

IN LINE with technology used overseas, the Indian Railways will introduce open wagons made of aluminium and stainless steell in the coming fiscal. As these wagons will be lighter than the existing ones, their carrying capacity will be higher. According to Rail Bhawan sources, a one-tonne rise in loading will lead to 12 million nume of incremental loading annually, and as a result, the railways can earn an incremental revenue of Rs 670 crore. Open wagons are used to carry iron ore, col and other minerals. The main aim of introducing these wagons is to improve the tare weight to payload ratio. At present,



In addition, because of corrosion resistance of stainless steel and aluminium, corrosion allowance usually included in designing corten steel sections is dispensed with and the wagons become lighter. Lighter wagons means less fuel consumption and this will be reflected when the wagons return empty.

As a result of higher pay-load to tare weight ratio, much greater availability of wagons round the year and on account of lighter weight and fuel savings, IR estimates that they can earn an incremental profit Rs 670 crore (Rs. 6.7 billion) by this sound materials decision.

Raajratna to start Stainless Steel Rebar supplies in November 2006

The use of stainless steel reinforcement is growing significantly in certain parts of the world, notably the Middle East, the Far East and North America. The realization that the potential economic benefits of stainless steels are immense when whole life cost of the RCC structure is considered, is leading to growing acceptance around the world, including UK and Europe.

India has a long coastline. Chloride attack on RCC structures is very severe on carbon steel enforcements. This places immense economic burdens on the owner (the government in case of infrastructure such as sea and airports, highways and bridges and private citizens or corporates for their property) for maintenance and replacement of corrosion-affected structures. New infrastructure projects coming up in coastal areas are particularly at grave risk.

For ensuring long life of RCC structures, stainless steel reinforcements provide the solution. They need to be used only in critical parts of the RCC structure and not throughout. This leads to a moderate 1 to 15% increase in the total cost of the project (depending on the design) with the assurance of long life, even without any routine maintenance. (*Please see the box item to compare the recurring costs of maintenance and repair of structures and the immense economic benefits of using stainless steel rebar in critical locations.*)

Unfortunately, use of carbon steel rebar and paying through the nose for inspection, monitoring, repair and maintenance, is the case with a very large number of RCC structures, especially along the coastline in India. But the facts are never made public.

Since corrosion is indeed a very severe problem affecting innumerable structures, carbon steel manufacturers of rebar have come up with so many "corrosion resistant solutions" either through surface coatings or micro-alloying modifications to carbon steel. But none of them go beyond postponing the problem of distress in concrete by a few years, Only stainless steels, especially nickel-containing grades 304 and 316, provide a lasting solution to distress in concrete guaranteeing 80-125 years of trouble-free and maintenance-free service.

M/s Raajratna Metal Industries Ltd., Ahmedabad, a member of ISSDA, will start supplies of ribbed stainless steel reinforcement bars for concrete from November this year.

They have contracted for plant and equipment with a European supplier and their rebar will be in the range of 3 mm diameter to 16 mm diameter. These will be cold drawn ribbed bars in grades of 500 and 650 as per BS 6744: 2001. In rebar parlance, the term "grade" refers only to the mechanical properties, and not to the chemical composition, which is determined by the steel type or designation. 500 and 650 refer to the minimum yield strengths of the grades in MPa.

The steel designations to be manufactured would be AISI 304 and 316. Any other stainless steel designation of rebar required by the customer would also be produced. Plans are also on for manufacture of rebar >16 mm diameter. These would be hot rolled to obtain

Midlands Link Viaduct, U.K.

Built in 1972 with CS rebar; corrosion began two years later	First Cost £ 28 million	
By 1989, amount spent on repair	£ 45 million	
By 2010, estimated amount that would be spent on repairs	£ 120 million	
Total amount that would be spent on repair by 2010	£ 165 million (nearly six times the original cost!)	
Estimated cost of SS rebar in critical locations (selective use)	£ 3.4 million (only 12% increase in initial cost)	

Grade	Yield Strength MPa (min)	Elongation at fracture (min) %
500	500	14
650	650	14

the necessary mechanical properties. All hot rolled rebar would be supplied in the pickled condition.

M/s Raajratna Metal Industries Ltd will have ISO 9001 certification for their rebar production facilities by M/s BVQI (Bureau Veritas).

For more technical information on stainless steel rebar, contact <u>nissda@gmail.com</u>. For product and delivery details, please contact: RAAJRATNA METAL INDUSTRIES LTD, 909, Sakar III, Near Income Tax, Ahmedabad – 380 014; Tel: +91-79-2754 3681 to 3684; Fax: +91-79-2754 3035; E-mail: <u>raajratna@raajratna.com</u>; Web: <u>www.raajratna.com</u>



A pier in Progreso, Mexico; Constructed b/w 1937 and 1941, the 2 km long pier with **SS** rebar – shows no sign of deterioration. Good for another 30 years. Foreground CS rebar pier constructed during late 1960s – only the remains are seen !



Highest Holy Cross in Asia



An 8.5 metre high stainless steel Holy Cross has been fixed at the Basilica Tower of Shine Basilica of Our Lady of Dolours Church, Thrissur, Kerala. Situated atop the tower which stands at 79.2 metre, this is said to be highest Holy Cross in Asia. (Delhi's Qutab Minar is about 73 metre high.) AISI 316 sheet in 16 SWG (1.626 mm) in No. 8 finish has been used for the covering the Holy Cross. The Cross is reinforced with stainless steel angles / flats / rods. About 1.8 metre of the Cross is under the reinforcement and covered with concrete. According to the fabricator, Mr A Dayananda Menon, Ambili S/ C/S, Thrissur, approximately 800 kg of stainless steel has been used for this project. The central portion of both sides of the Cross is illuminated in red by LED panels which can be seen from a distance of 10 km. The project was completed in 2004.



Contact details of the fabricator: Mr A Dayananda Menon, AMBILI S/C/S, Kallettumkara PO, Distt. Thrissur, Kerala – 680 683; Tel: 98471 56646, 94475 13111, 0480-2881 656, 2880 061; Fax: 0480-2880 061; E-mail: dayagroup2@rediffmail.com

Modernization of railway stations

When airports in India are being modernized and upgraded to international standards, can the railway stations be far behind?

In his budget speech for FY 2006-07, the Hon'ble Railway Minister mentioned that to modernize the passenger amenities, it has been decided to make all 'A' & 'B' category stations as model stations and with the help of architects in all divisions, railway stations will be made more beautiful, comfortable and with modern looks.

Modern facilities for catering items at stations through food plazas, food courts etc will be opened and automatic vending machines will be installed to dispense cold drinking water and other beverages. ATMs, cyber cafes etc would be provided at all major stations. The minister added that a pilot project is on to upgrade retiring rooms, waiting rooms, station buildings, lavatories etc under public-private partnership schemes at a few stations which will be further expanded.

This is encouraging news for the stainless steel industry. There is ample scope of stainless steel being specified for these modernization and refurbishment projects. Those supplying



By Devraj Dasgupta/TNN

Mumbai: To spruce up its image and offer a wider mix of cuisine at stations, the railway ministry is planning to tie up with branded food and beverage manufacturers. F&B majors will be invited to open stalls across India. Indian Railway Catering and Tourism Corporation (IRCTC), an autonomous body under the railways

ministry, has drawn up a plan to open 2,000 such stalls which would serve "standard" food. Western and Central Railway (WR/CR) are likely to get 500 of these stalls. of which at least 100



Nestle, Cafe Coffee Day and even Haldiram amongst domestic players to set up these stalls, "These compa-

architectural products and services may please visit the nearest railway zonal office or large railway stations to participate in the railway station modernization plans.

Kalyan Silks sparkles with Stainless Steel

About 420 running metres, from the ground floor to the seventh floor, of gleaming AISI 304 type stainless steel handrails adore the popular silk saree showroom of Kalyan Silks, Hospital Road, Near Maharaja's College Ground, Kochi, Kerala. The handrails are of completely modular system, which means no on-site welding. There is glass between the balusters.

The glass holders were indigenously developed by the fabricators, M/s Sreevatsa Stainless Steel Fabricators (P) Ltd, Chennai, to accommodate straight glass panels on curved staircase. The entire site erection was completed in 20 days during March 2006.

Stainless steel handrails were specified by architects M/s Center for Design Excellence, Bangalore. The handrails have a satin finish.



Contact details of the fabricator: SREEVATSA STAINLESS STEEL FABRICATORS (P) LTD, 1 / 376, Mugaliwakkam, Porur, Chennai – 600 116; Tel: 044-2252 3469 / 79 / 89; E-mail: sreevatsa.stainless@gmail.com

World Class Facility for training and upgrading skills in welding

Ador Welding Ltd (formerly Advani-Oerlikon Ltd), pioneers of India's welding industry, established a Centre for Welding Excellence (CWE) in 1977 to help fabricators and their customers upgrade the technical skills of all cadres in the welding industry for a wide variety of metallic materials, including various grades of stainless steels.

CWE Objectives

Beyond merely supplying welding equipment and consumables to customers, Ador's objective is to provide complete welding solutions to customers through the following technology and technical initiatives at CWE:

- 1. Technical and skills training for all cadres in the welding industry
- 2. Welding productivity improvement services
- 3. Welding process application services
- 4. Information and knowledge dissemination services

Training and Upgrading human skills at all levels of the Customer Organization

CWE conducts in-house as well as on-site training which is modeled and regularly benchmarked with the best programmes from around the world. Since the training is country- and application-specific, it enables local or regional personnel to acquire the right welding skills and thus maximize the customers return on new highproductivi ty processes, equipment and consumables.

Through a strong team of highly experienced and skilled faculty, CWE offers a comprehensive roster of welding courses for all levels of the customers organization viz., welders, inspectors, welding engineers, design and manufacturing engineers, site engineers and the like. CWE has trained over 60,000 personnel so far, who



are working in various reputed companies in India and all over the world.

CWE also offers Certification Services which qualify the participant for internationally acceptable competence levels.

CWE has one of Asia's best infrastructure and technical pool to carry out development work with world class equipment and proven, well documented testing and compliance procedures.

(Contact: Centre for Welding Excellence (CWE), Central Marketing Office (CMO), ADOR WELDING LTD, L B Shastri Marg, Bhandup (W), Mumbai – 400 078, Tel: 022-2596 2564 / 2577; Fax: 022-2596 7267, E-mail: akjoseph@adorians.com, cmo@adorians.com; Web: www.adorwelding.com)

Welcoming New Members

Corus International (India) Pvt Ltd

Corus International (India) Pvt Ltd are the Agents in India for Outokumpu Stainless. Corus have a presence in India since 1952 (formerly known as United Steel Cos, British Steel). We are a Company registered now in India and 100% owned by Corus Group Plc, an European steel maker with a capacity of 20MT and turnover of over GBP10 billion in 2005.

Outokumpu Stainless, today consists of 3 major European stainless steel companies (British Steel Stainless, Avesta AB and Outokumpu) merged into one entity. In 2005, the Group's sales were EUR 5.6 billion with a capacity of 2.5M tonnes of flat and long stainless steel products.

Combining international expertise with local customer service, the

Flexo Film Wraps (India) Ltd

Flexo Film Wraps (India) Ltd, since 1986, manufactures various kinds of packaging films. The plant is situated in Aurangabad (Maharashtra) and the company has marketing offices in major cities like Delhi, Mumbai, Kolkata, Chennai, Bangalore, etc. Flexo Film Wraps' products are:

- 1. Surface Protection Films
- 2. Specialty tapes such as Aluminium Tapes, Foam Tapes etc.
- 3. Co-extruded PE Stretch Film for Machine and Hand applications.
- 4. PVC Food Wrap Cling Film
- 5. Co-extruded PE Lamination Films

Surface protection films are adhesive / glue coated PE films. This film is used to protect various kinds of surfaces from scratches, dust etc. Surfaces which can be protected are **Stainless Steel**

Corus brand represents quality and strength. Customers serviced in India are in a wide range of industries – from the process industry and industrial machinery to building, construction and electrical industry, power and transportation, electronics and information technology, as well as catering and households. The company is dedicated to helping its customers gain competitive advantage.

Offices in India:

Mumbai: 503-504 Raheja Chambers, 213 Backbay Reclamation, Nariman Point, Mumbai – 400 021;

Tel: +91 22 2282 3126 or 46; Fax: +91 22 2287 5148.

New Delhi: D-1, Commercial Complex, Paschimi Marg, Vasant Vihar, New Delhi – 110 057; Tel: +91 11 2614 9909; Fax: +91 11 2614 2147. *Chennai:* 45, Montieth Road, Egmore, Chennai – 600 008; Tel: +91 44 2851 8683, Fax: 91 44 2851 8650.

Sheets, Pre Coated Sheets, PVC Sheets, PC Sheets, Laminated Plywood, etc. Since all the above materials are valuable, they need to be well protected from scratches, dust, etc. and therefore this film is very much required.

Currently, most of the consumers are importing this film. However, Flexo Film Wraps has developed at par quality film and has successfully entered into this segment. The company is currently supplying to Hindalco Industries, Ispat Industries, National Steel, Bhushan Steel etc. Flexo Film Wraps has the capability to develop tailor-made film as per requirement of the customer whereby the customer can save on time and cost of importing the film.

FLEXO FILM WRAPS (INDIA) LTD, 74 Farola, Paithan Road, Aurangabad – 431 105, Maharashtra; Tel: 02431-251 663 – 665; Fax: 02431-251 661; E-mail: <u>sadani@flexofilm.com</u>; Web: <u>www.flexofilm.com</u>



Kich Marketing Pvt Ltd

In 1992 Shri Chimanbhai Hapani, began KICH INDUSTRIES as an exclusive export unit for architectural hardware products at Rajkot (Gujarat). Over the years, KICH product quality has gained remarkable customer acceptance abroad. This trend has continued expanding company's experience and capability to innovate and match new design expectations. Shri Chimanbhai Hapani is actively supported by his three sons: Mr. Bharat Hapani-develops marketing strategies, Mr. Nitin Hapani -oversees manufacturing activities and Mr. Dinesh Hapani-renders marketing services to overseas customers. In 1998, Ms Chetna Mistry, an interior designer, under the able guidance of her husband Mr. Jagdish Mistry, a prominent architect from Mumbai, decided to contribute their might towards marketing of KICH architectural products in India under the banner of NEKI CORPORATION. The KICH-NEKI association has been successful for the KICH product range in the Indian sub-continent and in the international market. Today, KICH Group comprises of:

- KICH Industries (The Flagship Company)
- KICH Marketing Pvt. Ltd.

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- KICH Overseas
- KICH Manufacturer
- Fitwell Technologies Pvt. Ltd.

All KICH products are manufactured under one roof to exercise total quality control. The company has its own R&D department besides having in-house design studio and tool room to innovate and develop new designs along with dies, jigs and fixtures. The plant possesses latest manufacturing machinery, advanced polishing processes and devices to produce unique products with unmatched finish.

KICH is,

- The First and only winner of the National Award for the Best Quality Products in hardware category.
- The First ISO 9001:2000 certified Indian company manufacturing anti-corrosive high grade AISI 316 stainless steel architectural products.
- The First and only Indian member of FIRA-UK, manufacturing architectural ironmongery. (FIRA – Furniture Industries Research Association)
- The First Indian manufacturer of bathroom accessories in AISI 316 grade stainless steel.
- The First manufacturer of 'knock-down' handrail and balustrade system in India with AISI 316 Grade Stainless Steel.

A few of company's prestigious clients are:

Hotel Hyatt, Intercontinental, Holiday Inn, Imperial Palace, SAB TV, Yash Raj Films, Fun Republic, Cineline cinemas, Jet Airways, Airport Authority of India, Coca Cola, Parle, Bombay Hospital, Dhakaan Hospital, Apollo Hospital, Wockhardt, Zydus Cadilla, Sun Pharmaceuticals, Torrent, Cipla, Nicholas Piramal Group, Reliance group, Tata group, L&T, Hyundai, Indian Oil Corporation, Sigma Vibracoustic, RBI, ICICI, HSBC, UTI, Standard Chartered, SBI, HDFC, IFFCO, Finolex, Capgemini, Oracle, Infosys, Wipro, Times Group, Deccan Chronicle, Divya Bhaskar, Ajanta Quartz, Samay Quartz and many more.

Contact Info:

KICH MARKETING PVT LTD, Yogeshwar Main Road, Atika, Dhebar Road (South), Rajkot – 360 002;

Tel: 0281-329 0316 / 17, 236 8121 / 7768; Helpline: 0-93757 13638; Fax: 0281-236 1602; E-mail: <u>sales@kichindia.com;</u> Web: <u>www.kichindia.com</u>

NEKI CORPORATION, 103 / 104, Sharaton Heights, Charatsingh Colony, Chakala, Andheri (E), Mumbai – 400 093;

Tel: 022-329 58462 / 63, 2830 0124; Helpline: 0-93238 06620; Fax: 022-2830 0427; E-mail: <u>nekico@vsnl.com;</u> Web: <u>www.nekiindia.com</u>

LPS-Bossard Pvt Ltd

Lakshmi Precision Screws Ltd (LPS), is headquartered at Rohtak (Haryana, near Delhi) and comprises of two manufacturing units spread across an area of 100,000 sqm. Supported by 624 highly dedicated professionals who are driven with zeal to make a world class product under the leadership of dynamic management team, LPS is a 963 million INR company with 40% contribution coming from exports. Their installed capacity stands at above 12,000 metric tonnes per annum and is ably supported by a host of ancillaries.

LPS-Bossard Pvt Ltd is a joint venture company of LPS and Bossard AG of Switzerland. This venture gives state-of-the-art fastening solution / technology to customers in India. The latest







Shri Chimanbhai Hapani receiving the National Award for Best Quality in the Hardware category from Hon'ble President of India Dr A P J Abdul Kalam on October 28, 2005 at New Delhi.

inventory management technique through logistic support is also provided by this company.

According to the company, each lot that moves out of their production facilities undergoes mechanical, chemical and metallurgical inspection at over 20 inspection nodes, beginning from raw material receipt to packaging. A2LA, USA and NABL, India have accredited LPS test facilities. LPS is a certified ISO-9002, QS-9000, ISO-14001 & TS-16949 company.

LPS is equipped with sixth generation machines where rolling can be done after heat treatment to ensure perfect lap free threading. Machining is done with CNC machines to form intricate shapes for

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specific applications. Continuous heat treatment improves product quality and the finish of the product is determined by application specifications.

A wide range of standard cold forged high tensile fasteners of over 6,000 varieties, from 3 mm to 30 mm dia and 6 mm to 300 mm length are made by LPS. The company's standard products are Stainless Steel Fasteners, Socket Head Cap Screws, Socket Low Head Cap Screws, Socket Counter Sunk Head Screws, Socket Button Head Cap Screws, Socket Set Screw Knurled Cup Point / Special Points, Hex Head Bolts / Screws, Hex Nuts, Dowel Pins, Special Automotive Fasteners. These standard products cover a very wide range of industries viz., automobile sector, standard / special machine building sector, textile sector, printing machineries, software sector etc.

The company's domestic clients include: Volvo India, Tata Motors, Hindustan Motors, Eicher, Mahindra, Maruti Suzuki, Swaraj Mazda, Escorts, HMTi, L&T John Deere, Reva, Kinetic, LML, Hero Honda, Yamaha, TVS, Bajaj Auto, BEML, LMW, Voltas, Kirloskar, Jyoti Ltd, L&T Komatsu, BHEL, Greaves, Godrej, Carrier India, Subros, Indian Railways. Some of the international clients are Bremick PTY Ltd. (Australia), Muller & Wilde (Austria), Hussaini Brothers (Austria), Bossard France (South Africa), Berner France Sarl (France), Nestinox B.V (Holland), China Crystal Metalware Limited (Hong Kong), Nuova Ferro and Acciaio SRI (Italy), National Socket

Rampra Steel Industries Pvt Ltd

Rampra Steel Industries Pvt Ltd is amongst the oldest bright steel bar manufacturing companies in India with widest size and product range, in operation for over 40 years. The company is one of the leading manufacturers of bright steel bars (ISO 9001:2000) in India and manufacture bright bars from 4 mm to 155 mm in rounds, squares, hexagons, flats, half rounds, profile bars in various grades of stainless steel, carbon steel, mild steel, alloy steel and freecutting steel etc.

The plant is located at Badlapur, 60 km from Mumbai and has an installed capacity of 24,000 MT for making bright bars to suit a variety of industrial and non-industrial applications. Rampra's wide range of products suit most applications, with tolerances and specifications which measure up to the quality standards in over 45 countries around the globe.

Apart from regular bright bars up to 155 mm dia , the company's speciality products include:

- Pump shafts for turbine pumps in carbon & stainless steels;
- Profile bars, as per customer specifications;

Heat treated / hardened and tempered bars as ASTM A 193 (used as bolting material for high temperature and high pressure applications); strain hardened stainless steels to ASTM A 193 etc.
Stainless steel 400 series grades such as AISI 410, 416, 420, 430F, 431 or equivalent grades (including heat treated) from 4 mm to 155 mm dia.

Recently, Rampra has started offering 160 mm to 210 mm dia, hot forged, annealed round bars mainly in 400 series stainless steel.

The company's bright steel bars are manufactured as per the most stringent tolerances of OEM as well as ASTM, DIN, JIS, BS and ARE standards. 'Job perfection' and 'Punctuality' is an ingrained attribute in each of 150+ employees at Rampra and form an essential part of their work ethic program.



Screw Company (South Africa) L & W Fasteners Co. (USA), Heads and Threads Company (USA), Lindstrom Metric. Inc (USA), Bagkok Salakphon Ltd. (Australia).

LPS Bossard Ltd, Opp. Northern Byepass, Hisar Road, Rohtak – 124 001, Haryana; Tel: 01262-249 920 / 921 / 970, 248 981; Mobile: +91-98110 82838; Fax: 01262-248 297, 249 922, 248 948; PFax: +1-845-230-3270; E-mail: <u>mktg@lpsboi.com</u>; Web: www.lpsindia.com



The company's products have been well accepted in various countries like USA, UK, Canada, Germany, Italy, Turkey, Israel, S. Korea, Morocco, Cyprus, Greece, Brazil, Colombia, Chile, Saudi Arabia, Iran, UAE, Lebanon, Jordan, Singapore, China, Vietnam, Syria, Malaysia, South Africa, Russia, Australia, Oman etc.

Please contact:

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Works: Mr Pravin Gupta, Director (Technical), RAMPRA STEEL INDUSTRIES PVT LTD, B / 5, MIDC Badlapur, Kulgaon – 421 503, Distt. Thane, Maharashtra Tel: 0251-2691 911 / 912 *International Sales:* Mr Rajesh Jagnani, Vice President (Int'I Sales), RAMPRA STEEL INDUSTRIES PVT LTD, Tel: 91-22-2881 3066, 2881 3086; Fax: 91-22-2881 3086; E-mail: rampra@vsnl.net

Sameer Linkages (Exports) Pvt Ltd

Since 1971, Sameer Linkages (Exports) Pvt Ltd (SLEPL) has been offering a wide range of technically superior engineering products and services to clients worldwide. With focus on precision and service, SLEPL has been able to establish itself as a quality and reliable vendor to leading engineering giants which includes several MNCs.

The company's capabilities include:

- Core competence in bar turning of SS material

– HPO approved facility by TUV for machining W0/W2 approved materials

- Quality systems certified to ISO 9001:2000 by DNV
- Ability to import material without payment of any import duties
- Machining jobs with batch sizes from 5 to 50,000

 Machining of SS 300 and 400 series, duplex, special SS with controlled carbon), mild steel, carbon, Cu alloys, Al alloys, engineering thermoplastics, hardened steel, shafts (turning, grinding, keyway) castings, forgings, rods, pipes



- Lapping and polishing up to 0.2Ra
- Honing from 5 to 25 mm dia and length up to 75 mm
- Rubber moulding up to 250 g
- Plastic moulding up to 100 g

- Heat treatments such as hardening, tempering, solution & salt bath annealing, case hardening

– Surface treatments such as gold, silver, zinc, cadmium, nickel, chrome, hard chorme plating, anodizing, hard anodizing, chromating, phosphating, electro polishing, shot & sand blasting.

SLEPL also specializes in sub-contract machining, sub-contract manufacturing, product sourcing from India.

SAMEER LINKAGES (EXPORTS) PVT LTD, 623, GIDC Industrial Estate, Makarpura, Baroda – 390 010, Gujarat; Tel: 0265-2638 945; Fax: 0265-2638 950; E-mail: response.slepl@sameerlinkages.com; Web: www.sameerlinkages.com

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SS heat exchanger for a hotel

In one of the first instances, a stainless steel heat exchanger has been installed at a hotel. Stainless steel heat exchangers are common in the process industry, but according to the fabricator, M/s Simple Enterprises, Delhi, this is the first time when a hotel has chosen stainless steel for the equipment. The maintenance personnel at the Taj Mahal Hotel, Mansingh Road, Delhi, wanted a maintenance-free heat exchanger to be installed at the roof-top of the building to replace the existing one made of carbon steel. The stainless steel heat exchanger is specially designed to make use of the surplus steam from the boilers to heat water for various services in the hotel. The hotel chain is considering to switch over to stainless steel heat exchangers for its other properties also.

Approximately 12 feet long, the heat exchanger is made of AISI 304 sheets of 6 mm thick and seamless tubes of 25 mm dia. About 1,500 kg of stainless steel was used for this purpose.

Information and photographs courtesy: SIMPLE ENTER-PRISES, 6604 / 2, Nabi Karim, Pahar Ganj, New Delhi – 110 055; Tel: 011-2351 8520, 395 09122; Fax: 011-2361 5450; E-mail: info@simple.co.in; Web: www.simple.co.in



New-age bus shelters in stainless steel

Delhi is all set to get "smart" bus shelters. Made of stainless steel, these bus shelters will be equipped with telephone booths, route timetables, display space for maps and public information, litter bins, fluorescent tubes and rainwater harvesting systems. About 200 such shelters will start showing up across the NDMC area from June this year.

M/s JC Decaux Advertising India Pvt Ltd has entered into a 15-year contract with the NDMC to build and operate these world-class shelters. Decaux says that stainless steel was chosen because it is most durable in Delhi's conditions. The bus shelters are designed in such way that they cannot get hot; the roof is made of a heat resistant special plastic.

You won't stop here only for the bus



Rajlaxmi Industries

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