

# STAINLESS INDIA

A MAGAZINE PUBLISHED BY

**Indian Stainless Steel  
Development Association**

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## A STEP FORWARD - STAINLESS STEEL CLADDING



*DMRC Operational Head Quarters at Barakhamba Road, New Delhi*

Architects for the Operational Head Quarters of DMRC had designed stainless steel cladding for the building at Barakhamba, New Delhi, involving stainless steel tubular truss with SS panels interspersed with toughened glass panels. At the time of making shop floor drawings by Stallion, it was decided along with the architect that the total system should be modular to take care of various aspects like structural stability, oil canning effect, precision, ease of installation and finally the aesthetics.

Designers from stallion finally decided to

make the tubular truss with the help of nodes to which different members were bolted. In order to achieve high precision and to avoid site fabrication, all the 4" diameter tubes for nodes & truss were laser cut and welded in specially designed jigs and fixtures. All stainless steel panels were also laser cut and formed on CNC bending machine with holes in predetermined spots to fix the same to truss, in position.

This modular concept will herald a new era for the use of SS material for cladding and also give confidence to the Architects

for using SS panels without the problem of waviness in the cladding material. Total quantity of stainless steel sheet and tube was 30 tonnes.

**Architects for this project:**

M/s Raj Rewal & Associates, S-7 Triveni DDA Commercial Complex, Shaikh Sarai Phase – I, New Delhi – 110 017

**Fabricator:** M/s Stallion Infrastructure Pvt Ltd, J-32, Lajpat Nagar – III, New Delhi – 110 024, Tel: +91-11-3088 4901

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## Extending the Life of Japanese Apartments to 200 years

*An 'all-stainless-steel' piping system aims to extend the life of residential high-rises*

The Japanese Stainless Steel Association (JSSA) has entered into a 3-year program designed to expand the use of long-lasting nickel-containing stainless steel in residential high-rise piping systems throughout the country.

The advantage of the all-stainless-steel piping system, as it's called, is that the plumbing systems in high-rise buildings will last longer and require fewer repairs, thanks to the durability and corrosion-resistance of stainless steel.

With Dr. Kyosuke Sakaue, Professor of Meiji University as a leader of the JSSA team, both the Nickel Institute and the Japan Valve Manufacturers' Association are participants in the government-subsidized project, which focuses on water supply and drainage pipes, as well as fire-fighting equipment, in collective housing.

JSSA proposed this program in response to a report tabled in May 2007 by the Housing and Land Investigation Committee of the then-governing Liberal Democratic Party of Japan.

According to the report, titled *200-Year Housing Vision*, the average apartment building in Japan lasts only 30 years, compared with 55 years for American homes and 77 for English ones. The short lifespan is an economic burden for residents as well as a hindrance to conservation efforts.

The report urges the housing industry to adopt, as its goal, an average lifespan for all residential housing (including high-rise buildings) of 200 years. Future high-rises will be characterized by energy conservation, harmony with the surrounding environment, earthquake resistance, and regular and easy maintenance.

Most Japanese housing is multi-unit, consisting of both shared and private spaces. The report suggests that piping systems in shared areas be considered part of the whole "skeleton" of the residential structure. This concept calls for the installation of durable, stainless steel valves, reducing the need for repairs



*The advantage of the "total piping system," as it's called, is that the plumbing systems in high-rise buildings will last longer and require fewer repairs.*

and expanding the life of the entire piping system.

Another advantage to longer-lasting housing will be a reduction in carbon dioxide emissions. Dismantling and rebuilding structures call for the production and transportation of pipes, valves and other materials, which in turn causes carbon dioxide emissions. The shift toward durable piping, and away from continuous replacement, will inevitably create a

reduction in those emissions, as well as in overall energy consumption.

These and other benefits show how the country's 200-Year Housing project is in keeping with the JSSA's goal of developing demand for stainless steel products while contributing to environmental sustainability.

**Source: Nickel Magazine, March 2008**





## Stainless Steel Water Tank from the House of Sreevatsa Stainless

**EASY** Stainless Steel Water Tanks are made from 304 grade stainless steel.

**Easy** Tank's innovative designs have brought the production cost down whilst retaining a high degree of strength and aesthetic appeal. The cost is only marginally more than a normal steel tank but provides all the benefits of a significantly more durable and cleaner material.

All water tanks will heat the water inside if placed in direct sunlight. Because of the high reflectivity of the stainless steel, the amount of heat retained is significantly less in stainless steel tanks than other tanks. Stainless steel is not subject to degradation upon long term exposure to sunlight as are plastic tanks. Not to mention the quality of the water stored in plastic tanks.

Stainless steel does not absorb pollutants, chemical, pesticides or other contaminants into its surface. If any of these substances find their way into a **EASY** Water Tank, just wash it out of the tank and re-fill. Depending on the



contaminant, a plastic or plastic lined tank may have to be professionally cleaned or in a worst case, thrown away.

**EASY** tanks are available in capacities of 500/1000/1500/2000 and 2500 litres. All tanks are fabricated out of SS AISI 30400 grade. Easy tanks come with Inlet, Outlet, Drainage and Air vent Fittings.

### Details of Manufacturer

CC Sampath,  
M/s Sreevatsa Stainless Steel Fabricators (P) Ltd, "Sri Malola", 174 G Habibullah Road, T.Nagar, Chennai - 600 017  
Tel : +91-44-2814 3552, 4350 2454  
Fax : +91-44-2252 3489, 2814 3552  
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Web : <http://www.sreevatsastainless.com>



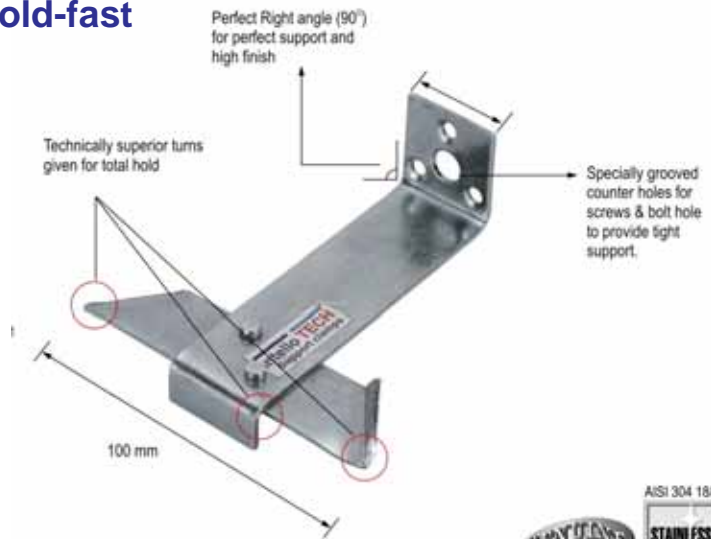
## Stainless Steel Hold-fast

IntelloTECH Hold-fast Frame Clamps in stainless steel 304 are specially designed to give a lifetime of valuable support to door and window frames.

Mild steel hold-fast frame clamps embedded in concrete tend to corrode after sometime. When they get corroded, corrosion products will occupy 5-6 times the volume of the original corroded metal. This excess volume creates cracks in the concrete. Hence the grip is lost and door / window frames do not get any more support. The door locks go out of alignment and in rainy seasons, the doors swell and get jammed.



for Column (Pillar)



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100 mm

AISI 304 18/8



Electro Galvanized Zinc Coating  $\geq$  10 microns

Stainless steel does not corrode and is highly compatible with the chemicals in the concrete. Hence, stainless steel hold-fast frame clamps can be expected to easily give a life of 100 years.

In addition, the IntelloTECH design restricts movement in all directions to withstand contraction and expansion due to varying climatic conditions (rainy season) leaving door and windows intact.

This design eliminates the need for repeated trimming of doors / windows to prevent jamming. The alignment of door handles to the frame remains perfect all through.

**Contact:** M/s Intellotech Industries, C-37/2, Wazirpur Industrial Area, Delhi – 110 052, Telefax: 011-4247 3692  
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# Buildings Made From Recycled Materials Don't Have To Be Ugly



The excellent corrosion resistance, strength and formability of stainless steels allow the construction of curtain walls and roofs with stunning aesthetics, minimal maintenance and long lives. Stainless steels are highly recyclable and typically contain 60% recycled material. At the eventual end of its life the stainless steel in this building will be recycled and return to use as "new" stainless steel; lasting value.

## Stainless Steel: One Of The World's Most Recycled Materials

[www.nickelinstitute.org/recycle](http://www.nickelinstitute.org/recycle)





## Stainless steel Pergola for residence in Chennai



The photograph above exhibits a stainless steel Pergola erected in the façade of a upper class residence in Chennai. The stainless steel pergola is made of 6" dia pipe of 3 mm wall thickness spaced at a distance of 2 feet. The length of each pipe varies from 14 ft. to 25 ft. The difficult task was to bring uniform Matt finish along the entire length of 25 feet pipe. The grade of stainless steel used is SS 304.

## Stainless steel Space Frame – Chandilier



This stainless steel inverted pyramid decorates the administrative office of M/s Indo Rama Synthetics India Limited, Nagpur, India. The entire structure is a space frame structure designed based on the mero system. The nodes are of 50mm dia and the members are 20mm dia pipes. The entire space frame was polished to mirror finish to highlight the lighting at the backdrop. The erection was completed in

two days at site.

**Fabricator of the above two projects:**  
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## Record Production and Sales by Salem Steel Plant

SAIL's Salem Steel Plant has ended the financial year 2007-08 with many records in Production, Sales and Techno-Economic fronts. Saleable steel production of 230731 tonnes during the year has been the highest ever since inception with a record capacity utilization of 132% and a growth of 26% over the previous year. This highest production consists of 58788 tonnes of stainless steel and 171943 tonnes of carbon steel products.

Sales during the year has also been highest ever at 224581 tonnes with a growth of 13% over previous year. Out of this, 55352 tonnes have been stainless steel which includes 6153 tonnes of Export and 169229 tonnes have been carbon steel.

In the Techno economic front, lowest ever electrical energy consumption of 171 units per tonne and lowest LPG consumption of 37 kg per tonne have been achieved in Hot Rolling Mill.

These achievements have been possible due to full involvement and commitment of employees and various innovations carried out to improve the operational efficiency of the Plant.

## Government clears SAIL SEZ at Salem

Steel Authority of India Ltd (SAIL)'s proposal to set up a Special Economic Zone (SEZ) at Salem has been given formal clearance by the Board of Approval (BoA) of the Ministry of Commerce in its meeting held in New Delhi on January 2. Earlier, SAIL has signed a memorandum of understanding with IL&FS Infrastructure Development Corporation (IIDC) for forming a special purpose vehicle (SPV) to develop and operate an SEZ for the steel sector at Salem in Tamil Nadu. As per the proposed SPV, SAIL and IIDC would hold equity in equal proportion.

SAIL, which will provide land for the SEZ adjoining its steel plant at Salem, will play the role of an anchor by providing customised steel products to prospective units that come up in the SEZ. These units would manufacture architectural facades, railway applications, dairy plants, chemical and pharmaceutical plants, machines for the food processing industry, tubes and pipes, auto components, panels for lifts, etc.

**Source: Press release from SSP**

## Viraj : the people of stainless

Today, Viraj is India's largest and world's sixth largest manufacturer of Stainless Steel LONG products. Also Viraj is the largest producer of stainless steel flanges in the world. The pillars of the company are its sound business principles and a forward looking approach to everything that is stainless steel.

### The beginning

Viraj Group was started by Mr. N. R. Kochhar and Mr. Nitin Chhatwal in the year 1991-92 in Tarapur, situated one hour from Mumbai. At the onset, only the melting shop was operational, followed by a rolling mill for long products. In the coming years, Viraj met with success, thanks to its consistent quality and continued to set up additional facilities during the period of industrial slow down in the late nineties.

### Backward integration and an extensive product range

Over the years the growth continued with installation of the Forging Shop, merchant mill for the production of Angles, Channels, Flats, other long sections and a Fastener Plant. The group went for a major expansion in 2005-2006 by installing a new Steel Melt Shop and a New Bar Mill has been supplied by VAI Pomini of Italy. With the commissioning of new melt shop, the melting capacity has gone up to 350,000 MTPA of stainless steel per annum. Proximity to the port makes the sourcing of scrap material easier. Besides this, the company has an in-house logistics arm that has a fleet of 250 trucks, a container warehouse on



Unequal angles

the ports and an in-house clearing agency.

### Acquisitions

To spread risks and create value, Viraj acquired Bebitz in 2003, a high reputed manufacturer of flanges based in Germany that has a century old tradition. Later on in 2004, Viraj acquired Tubinox, a Tube manufacturer in Romania for making seamless tubes and pipes.

### Value additions

Apart from stainless steel production in large quantities, Viraj is focusing in providing value additions and more finished products. It has installed large scale machining shops for the machining of forged flanges, stainless steel fasteners, bright bars and very fine drawn wires.

Below is size range made by Viraj in various product categories.

### Various Product Categories

#### A: Long Products:

Bright Bars: Round 2 to 150 mm, Hexagon 4 to 75 mm, Square 4 to 75 mm  
 Wires : 0.07 mm-16 mm  
 Wire Rods : 5.5-34 mm  
 Angles : 20\*20\*3 to 150\*150\*15 mm  
 Channels : 40\*35\*5\*7 to 160\*65\*7.5\*10.5 mm  
 Flats : 20\*3 to 150\*50 mm  
 I Beams : 76.2\*59.2\*4.3\*6.0 to 152.4\*84.6\*5.9\*9.1 mm  
 Re bars : 5 mm to 12 mm (cold drawn) and 13 mm to 50 mm (hot rolled pickled)

#### B: Forged Flanges and Fittings:

All major international Specs  
 Size : 1/2" to 36" in Pressure rating 150 to 2500 lbs  
 Size : 10 mm to 900 mm in Pressure Class 75 to 2600 PSI

#### C: Forged Bars: 160 to 350 mm

#### D: Fasteners : All major international Specs

Nuts : M5 to M27  
 Bolts/Screws : M5 to M27  
 Threaded Bars: M6 to M24, up to 4,000 MM length



Fasteners

Viraj contd. on page 7>>





*C sections*

### Accolades

With a turnover exceeding USD 1 billion, Viraj is recognized as a leading Export Oriented Unit (EOU) by the Government of India, with exports to over 90 countries. It has won several awards by the Export Promotional Council for achieving high export volumes.

Its network of agents is spread across the world, providing stockists and contractors quality stainless steel products. The manufacturing facilities have been certified and approved by Shell, Aramco, Samsung, Sabc and several other certifications. This ISO 9001:2000 company is gaining reputation as a quality manufacturer of stainless steel products the world over.

### Planning for the future

The group has ambitious expansion plans for downstream as well as upstream projects.



*Wire coils*

**Contact:** M/s Viraj Group, 10 Imperial Chambers, 1<sup>st</sup> Floor, Wilson Road Ballard Estate, Mumbai – 400 038, Tel: +91-22-2261 3056, 2261 4284 Fax: +91-22-2261 2980, 2265 9713, Email: [viraj@viraj.com](mailto:viraj@viraj.com), Web: [www.viraj.com](http://www.viraj.com)

Following are the downstream value addition projects.

### Capacity Enhancement

- Forged & Machined Rounds to 45,000 TPA
  - Bright Bars from 33,000 TPA to 48,000 TPA.
  - Wires from 12,000 TPA to 24,000 TPA
- New production facilities for industrial fasteners of 36,000 TPA

The major upstream projects include setting up a Ferro Nickel and Ferro Chrome Plant with a capacity of 25,000 TPA Nickel and 90,000 TPA Ferro Chrome. A Flat Products plant with a capacity of 850,000 TPA is also in the pipeline. For ensuring a regular supply of power at a fixed cost, the group has partnered with KSK Energy for setting up a 270 MW power plant in Maharashtra.

With all its actions oriented towards customer focus and strong value addition, Viraj group continues to be in the forefront of Stainless Steel Long Products market.

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

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## 2007 Stainless Steel production down 2.9%

According to preliminary figures released by the International Stainless Steel Forum (ISSF), global stainless steel production was 27.6 million metric tons (mmt) in 2007, a decline of 2.9% compared to 2006. The decrease in production occurred in most stainless steel producing countries and regions. Only the Asia region and China showed increases in production for the year.

**Table 1 : Stainless and heat-resisting crude steel production (in '000 metric tons)**

Region	Full Year		Y-o-Y +/- %	Full Year		Y-o-Y +/- %
	2005	2006		2006	2007 (p)	
Western Europe / Africa	8,795	10,000	13.7	10,000	8,673	-13.3
Central and Eastern Europe	310	3,76	21.2	376	365	- 3.0
The Americans	2,688	2,951	9.8	2,951	2,502	- 15.2
Asia	12,498	15,074	20.6	15,074	16,030	6.3
<b>World Total</b>	<b>24,292</b>	<b>28,400</b>	<b>16.9</b>	<b>28,400</b>	<b>27,570</b>	<b>- 2.9</b>

**Table 2 : Market share of stainless steel grade categories 2007**

(estimated % of total stainless crude steel production)

	Quater 1	Quater 2	Quater 3	Quater 4
CrMn steels (200 series)	10.0	9.6	13.2	14.6
CrNi steels (300 series)	65.0	62.3	53.0	50.7
Cr (400 series)	25.0	28.1	33.8	34.7

**Source : International Stainless Steel Forum (ISSF)**

### Punjab Abrasives Ltd

Punjab Abrasives Ltd is a ISO-9001:2000 certified premier manufacturers of coated abrasives products including sanding belts, flap wheels, non-woven flap wheels for satin/brush finish, flap discs, velcro/PSA discs and rolls/ sheets.

Punjab Abrasives Ltd products are used extensively in numerous reputed industrial units including dairy equipment manufacturers, chemical process equipment manufacturers, utensils manufacturers, cycle and motor cycles units, hand tools industry, sanitary ware, plywood, shoes industry and many more. The products are preferred for their superior performance, better surface finish and price advantage. The quality, competitive pricing and services make Punjab Abrasives Ltd the preferred prime vendor to some of the leading industrial houses in the country.

Punjab Abrasives Ltd also manufactures special purpose machines for polishing and grinding automation.



*Abrasive Products*

**Contact :** Mr S.S. Aurora, Punjab Abrasives Ltd., 516, Phase 9, Industrial Focal Point, Mohali, Punjab, Mobile : 09814108034, Factory Phone: 0172- 6577 516 / 2211 243, E-mail: [punjab\\_abrasives@eth.net](mailto:punjab_abrasives@eth.net), Website: [www.punjab-abrasives.com](http://www.punjab-abrasives.com)

## Welcoming New Members



### Koncept Steel Pvt Ltd

**KONCEPT** 'design the world with New Concept'

Koncept Steel Pvt Ltd is a company with vigour and vision, backed by experience and reliability. The management team comprises of dedicated professionals.

Koncept is one of the leading manufacturers of stainless steel architectural hardware products and ensure optimum strength and durability deploying meticulous care at every stage of work. All the products are manufactured under one roof in order to exercise total quality control.

Our specialized range of products are:

- Stainless steel Cramps and Anchors Fasteners required for Dry Stone Cladding
- Stainless steel handrailings
- Door handles
- Glass spider fittings and fins

Koncept is the first company in India to design and promote stainless steel cramps with 'Enkay' brand required for Stone Cladding on multi story buildings.

Special features and advantage of using Cramps are as follows:

- No mortar (Cement Slurry) is required for fixing the stone on walls which results in decrease of total cost of project.



- Accuracy and less labour required
- Accidents prohibited
- Insulation advantage:** In dry cladding, there is a gap between the stone and the walls which can be filled with insulation and prevent any kind of adverse reaction from external atmosphere.
- 'Time save'** i.e. time required for fixing the stone with help of cramps is almost 25% less than the time required for fixing the

stone with mortar (Cement Slurry)

'Koncept' is now developing new designs of stainless steel railings with new concepts of modular fittings and architectural hardware.

**Contact:** M/s Koncept Steel Pvt Ltd, A-23/1, Naraina Ind. Area, Phase – II, New Delhi – 110 028, Tel: 011-4505 8699 (Fac), Telefax: 011-4500 9995.

Email: [kapoorasso@hotmail.com](mailto:kapoorasso@hotmail.com)

Web : [www.enkayfastners.com](http://www.enkayfastners.com)



Megatech Components Private Limited was established in April 2004 by experienced and technically qualified team of tool engineering specialists as a manufacturing unit for producing precision-machined stainless steel components as per customers' drawings & specifications. The infrastructure is most suitable for producing small & medium batches of precision components involving multiple machining operations. With a focused approach on quality, all the processes are certified

ISO 9001-2000. Megatech has mastered the art of machining within increasingly close tolerances.

Megatech has created a niche by specializing in machining of various grades of stainless steel such as SS301, SS303, SS304, SS316, SS316L... into components with "Stainless Precision". Megatech's precision-machined components are used mainly by the manufacturers of:

- Dairy Machinery
- Filtration & Separation plants
- Food processing equipments
- Machines for Textile industry
- Machine tools and spares

- Packaging & Printing machines
- Scientific and Optical instruments
- Stainless Steel Spares & Consumables (for engineering industries)
- Surgical equipment
- Valves & Pipeline fittings

#### Infrastructure & Facilities

Megatech has two manufacturing units. One in Kirti Nagar, New Delhi with an area of 4000 sq. ft. & another in Manesar, Haryana with an area of 12500 sq. ft. During its evolution as a precision machining shop Megatech has considered customers' need as a prime mover in

*Megatech contd. on page 11>>*





making investment decisions. All round development in design, machining, manpower and support utilities has made the facilities at Megatech a unique combination.

The infrastructure includes these machines:

- CNC Turning Machines (Ø250mm x 400mm)
- Milling Machines (500mm x 300mm x 200mm)
- Electric Discharge Machines (200mm x 300mm x 200mm)
- Lathe Machines (Ø300 x 1000 mm)
- Gun Drilling Machine (Ø3 - Ø16mm x 250mm)
- Surface Grinders (400mm x 200mm x 200mm)
- Cylindrical Grinders (Ø200mm x 600mm)
- Internal Grinding Machine (Ø2 - Ø100mm x 120mm)
- Drilling Machines (Ø1 - Ø20mm)
- Tapping Machines (M3-M12)
- Blank Cutting Machines (150mm x 150mm)

Apart from these Megatech also has a qualified pool of Associates & Vendors to support with facilities such as CNC Milling, Jig Boring, Jig Grinding, Centerless Grinding, Wire-cut EDM, CAD-CAM, Material Testing, Heat Treatment, Surface Treatment, etc...

**Customer Service**

Megatech is committed to meeting

customer expectations with flawless delivery of products and services. All components manufactured by Megatech undergo rigorous inspection checks at every stage of its production cycle. With customer's need high on the agenda, toolings, jigs & fixtures are developed as per the requirements of the part to be manufactured to ensure quality and productivity. We understand your requirements better...



**Inspection**

Delivering quality is a habit at Megatech. Starting with the use of genuine raw material adhering to international standards of quality, all go into the precision that is apparent through the products made by Megatech. ISO 9001:2000 Certification is only a confirmation of the quality made at Megatech...

**Human resource**

Megatech has well-qualified and competent team of employees on its roll to manage the day-to-day activities of its

various departments. The team includes department heads, skilled and semi skilled workers along with suitable numbers of managerial & administrative staff. Right man at right place is the policy of Megatech, delivering the best results. Some key positions include Production Manager, Quality Engineer, Design Engineer, Purchase & Store Executives.

**Contact**

Megatech Components Pvt. Ltd.  
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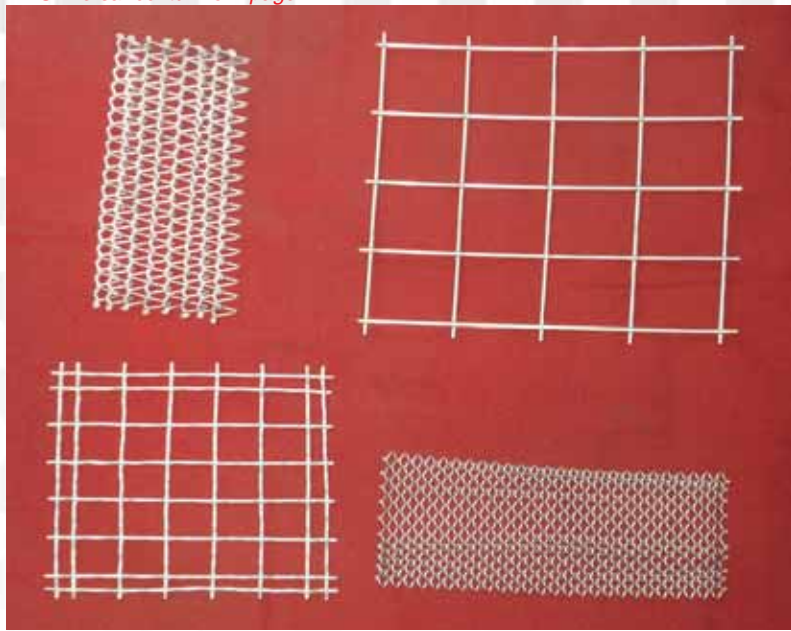
**Universal Wire Products**

At **UNIVERSAL WIRE PRODUCTS**, we are engaged in manufacturing stainless steel wire mesh in different grades, filters, demister pads, perforated sheets, conveyer belts, vibrating screens, crimped wire mesh, chain link fencing, square mesh, etc. for over 25 years and are supplying the same all over India and abroad.

We manufacture different type of wire mesh ranging from 02 mesh to 500 mesh. We maintain a huge inventory in all different grades and specifications to meet our customers immediate requirements.

We process a wide variety of Wire cloth to cater to the needs of our customers. Our products have found acceptable with various industrial applications such as Sieving, Filtration, Separations, etc for.

- Aeronautics
- Agriculture
- Architectural
- Atomic PowStation
- Asbestos Industries
- Automobiles
- Cement Industries
- Ceramic Tiles Industries
- Chemical Industries
- Coal mine Industries
- Dehydration Plants
- Fertilizers



- Food Processing Industries
- Glass Industries
- Irrigation Projects
- Mines
- Pharmaceuticals
- Pulp and Paper Industries
- Rayon Industries
- Rubber Industries
- Sugar Industries

### Export Division

Our products are exported to different countries around the world. We ensure quality products and are capable of meeting all technical specifications etc. to the entire satisfaction of our overseas buyers. We can offer stainless steel wire meshes in all sizes and grades especially from 01 mesh to 100 mesh.

### Contact:

M/s Universal Wire Products, Lotus Building, 2<sup>nd</sup> Floor, P.B. No. 3442, 59 Mohamadali Road, Mumbai – 400 003, Tel: 022-2344 1766 / 2346 4884, Fax: 022-23441567, Email:[vimalsj@bom3.vsnl.net.in](mailto:vimalsj@bom3.vsnl.net.in), Web: [www.uwpmesh.com](http://www.uwpmesh.com)

## **CHILLY**® Veer Sanitary Appliances (Pvt) Ltd

Veer Sanitary actively contributes to the need for health & hygienic plumbing and sanitary solutions. Environmental concern plays an active role in the entire product life cycle from design to delivery.

We at Chilly take every lesson very seriously and all our products reflect the same motherly touch of care and concern for health and hygiene.

It has been twenty long years when Chilly began working relentlessly for the good of people by doing a lot of R &D, pursuit of excellence in developing a product and only taking up a product which will not be only commercially viable but socially beneficial and individually satisfying too. Our product line amply proves this...

The Chilly cockroach trap-water lock floor drains for pest, plumbing and sanitary systems, floor drainage systems. The Intellotech – piping & cabling support clamps, fasteners, wooden frame accessories, stone cladding clamps and electrical accessories improving the quality of people's lives through the timely introduction of meaningful technological innovations.

Our brand promise is "Indian Excellence... Global Commitment."

It encapsulates our commitment to delivering products and solutions that are advanced, easy to use and designed to meet the needs of all our users, wherever in the world they may be.

Our CCT-Lifestyle floor drain trap gives off ambience beauty besides doing its work that of stopping cockroaches, drain choking and drain odour. But in the larger perspective it does more by checking effluents going down the drain it helps keep water easy to recycle.

The CCT is being used by all aspects of life by industry, house holds, hotels, hospitals and practically everywhere.

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**CCT COCKROACH TRAP**

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