

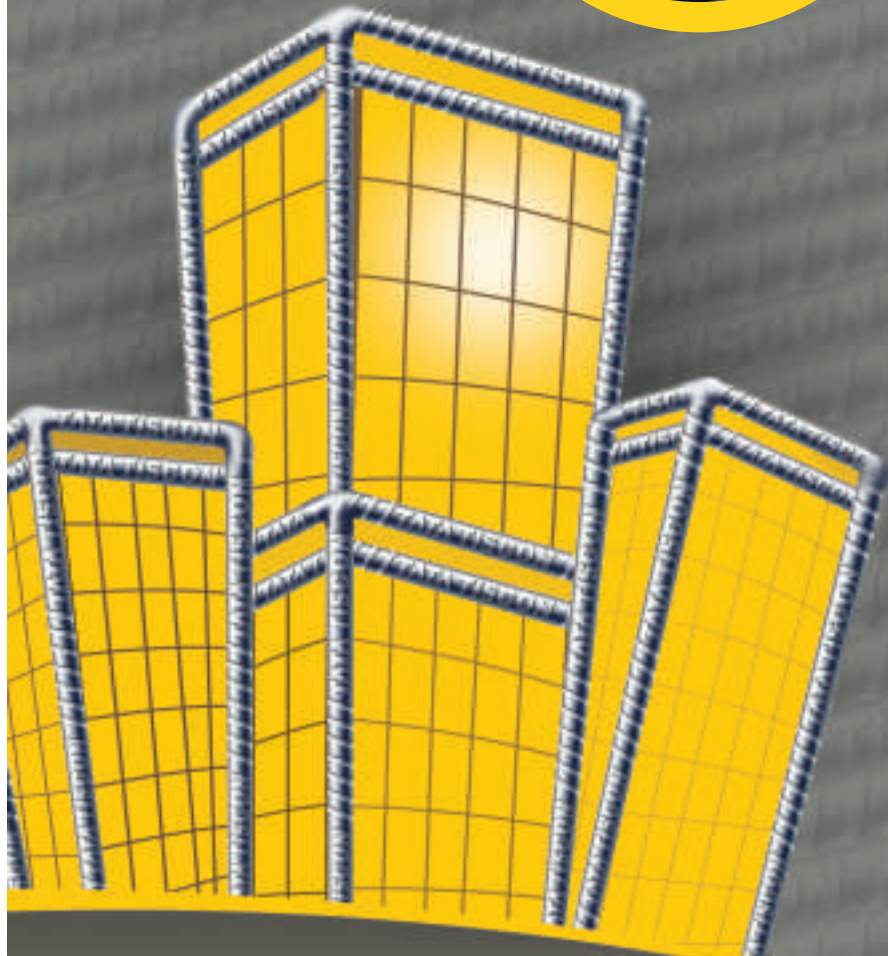


JOY



OF BUILDING A NEW TOMORROW

A Tata Steel Offering
for hassle-free construction Practices



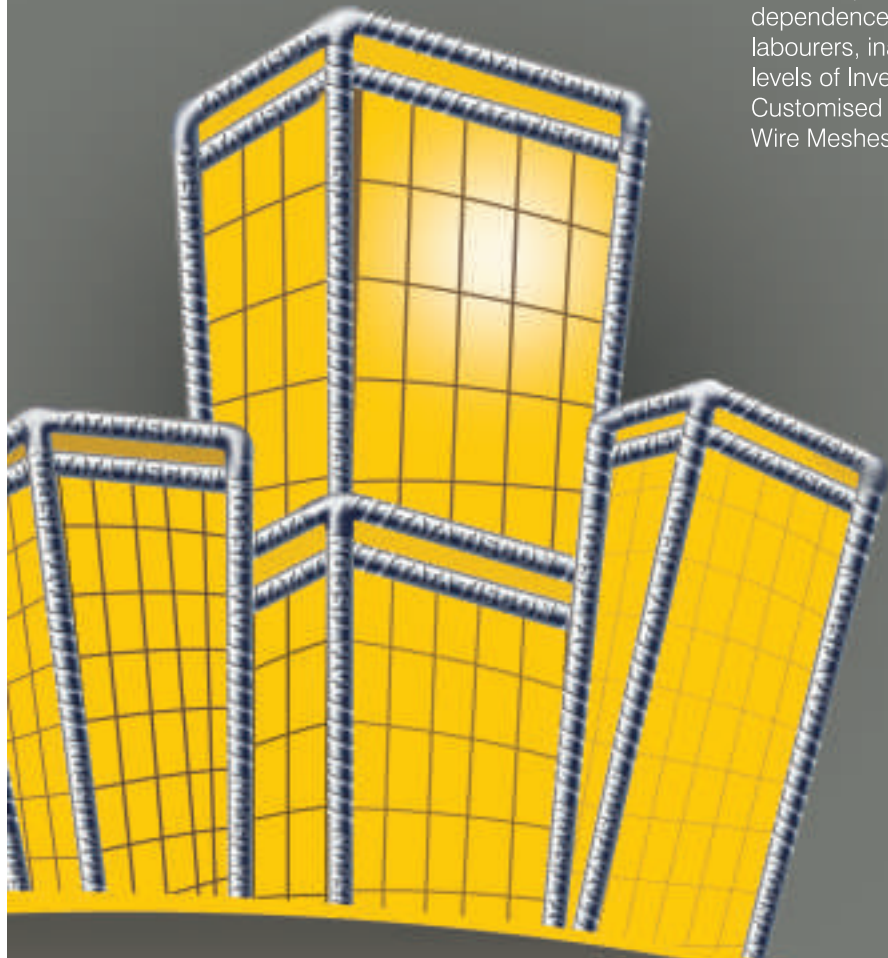


Construction projects are very complex undertakings that are impacted by economic, social and environmental challenges. Changes in the construction industry have led to innovation in products and services to address rapidly evolving global and local conditions. Globally, advanced construction practices have been adopted, leading to ease in construction, with speedier execution.

Efficient execution is the focus today and services that have a significant impact on construction productivity and cost are gaining importance. Better construction practices are needed and this will help to meet the challenge of India's development. India is rapidly catching up with the pace of global development and one of the biggest challenges pertains to rebar management.

In a typical construction, majority of the consumption is in the form of Cut and Bend rebars. Considering the current construction practice in India, rebars are supplied in the straight form of 12 m length. Required Cut and Bend activities are manually performed at project sites itself, leading to inefficiencies and wastage.

Manual operation poses other challenges like overt dependence on section availability, poor skillset of labourers, inadequate quality of Cut and Bend, high levels of Inventory cost etc., leading to delays. Customised rebar solutions like Cut and Bend, Couplers, Wire Meshes etc. are a way to solve these problems.



Joy of hassle-free construction

with customised rebar solutions



Adding to the long list of innovations in products and services, the latest entrant from Tata Tiscon is Tiscon Readybuild, a rebar downstream service that offers customised rebar solutions at construction sites. Currently, under the brand name Tiscon Readybuild, there are two offerings- Cut and Bend Services and Cut and Bend services with Couplers; which are available across India through dedicated Readybuild Centres.

- **Cut & Bend rebars:** Customization of rebars in required shapes by cutting and bending them at required angles, in accordance with the given project's specification.
- **Cut & Bend rebars with Couplers:** A coupler is a hollow mechanical member, used to join two rebars. Both the ends and the inner surface of the coupler are threaded which helps in joining the rebars. Currently, rebars are tied together end-to-end with a wire resulting in wastage of the lap length.

This proves to be the fastest and the most effective method of delivering reinforcements, as we offer solutions for concrete structures based on specific customer requirements and these are being widely used pan-India.

Ready for every construction need

Tiscon Readybuild customised rebar solutions are suitable for every construction segment



Infrastructure

Bridges & Flyovers, Dams, Power Projects, Wind Farms, Metros, Airports, Ports, Government Bodies and others



Industrial

IT Parks, Industrial Units, Commercial Projects and others



Housing & Commercial

Residential Units & Complexes, Mass Housing Projects, Malls, Hospitals, Schools, Colleges and others

Tiscon Readybuild Cut & Bend services



Tiscon Readybuild has built a complete cutting and bending facility for reinforced steel to be supplied in a Just-In-Time delivery system at the construction site.

Tiscon Readybuild caters to every kind of reinforcement requirement, redefining concepts of time and inventory management while reducing material wastage and hazards related to cutting and bending at site.

Did you know?

For all Tiscon Readybuild centres, raw materials are sourced from rolling plants of Tata Steel.

Traditional way v/s Readybuild way



Traditional Way






Traditionally, the cut and bend process is done manually by bar benders, with little precision and using hand tools to roughly meet the shape requirement.



Readybuild Way

With Tiscon Readybuild, you get precise cut and bend rebars as per your requirement, customised on state-of-the-art machines, without the hassle of scrap disposal and inventory management.

A comparison

Traditional Way	Readybuild Way	Benefits through Readybuild
 Both go through the same initial phases of Design, Drawings, Contractor and BBS/BQ detailing.		
<p>Once design and BBS are received, a Project Manager looks into procurement of straight bars and gets them cut & bend in the required shape.</p>	<p>All required sections available-managed either through existing inventory at site or else by fresh procurement. Procurement of rebar supply is internally buffered and managed at the Tiscon Readybuild Centre.</p>	 Faster procurement of rebars
<p>The quality of rebars is not consistent due to multiple vendors.</p>	<p>Consistent quality assured - the shapes are made only by Tata Tiscon rebars ensuring superior quality.</p>	 Improved quality check
<p>The rebars go through the inventory management rigour of accounting at each stage of usage.</p>	<p>The inventory of Tiscon Readybuild rebar solutions is internally buffered and managed by the system.</p>	 More efficient inventory management
<p>The project manager micro-manages all steps of the process: from understanding the BBS to instructing labour on the required quantity, measurement, angle of bend and production schedule.</p>	<p>Managed by computerised systems accurately : BBS fed into machines to get accurate shapes and sizes of cut and bend products.</p>	 Greater detailing to bar benders
<p>Cutting and bending done manually, hence, bringing in inefficiencies. Length of rebar is manually measured - with a higher chance of inaccuracy. The cut is forcibly done and would not be clean.</p>	<p>Rebars sheared through a shearing system which measures the length to be cut accurately. The shearing mechanism is instant and gives a clean finish to the cut rebars. The angles at which rebars have to be bent is internally controlled by the machine, providing accurate bend angles.</p>	 Precision in Cutting & Bending
<p>Cut and bend products need to be manually sorted and arranged which becomes a challenge.</p>	<p>Products are tagged and then loaded and delivered. The tagging ensures ease in accounting and stocking.</p>	 Eased stocking & accounting
<p>Wastage turns out to be a major headache as rebars do not come in the required sizes. Disposal of scrap generated during cutting & bending is an extra hassle.</p>	<p>Availability of raw material in different sizes and an accurate and optimized production process ensures minimal wastage, hence, eliminating disposal of scrap.</p>	 Lesser wastage & better scrap disposal

Basket of benefits

Tiscon Readybuild offers customised rebar processing solutions to ensure hassle-free construction



Manage space effectively

On Time In Full delivery (OTIF) of tailor-made rebars helps in managing space efficiently



Ensure top quality

High quality rebars are customised in the exact shape and size as per requirements



Simplify procurement

Timely availability and hassle-free delivery makes the procurement process simple and easy



Easy inventory management

With Tiscon Readybuild, there is no need to store rebars beforehand on site. Moreover, Readybuild Tags make identification easy for immediate use



No wastage, no worries

Zero wastage on site eliminates disposal needs



Absolute Precision

The exact angle of bend is achieved and exact shapes are delivered according to the working schedules and in individualised bundles



Safety

Lesser cutting & bending work at sites provides greater safety to workers



Project completion on time

The time saved in the process of using customised rebars ensures that the projects are completed on time



Minimise labour involvement

Lowers labour involvement at site thereby reducing labour cost and manual errors



7 day delivery

The entire kit is delivered in cut and bend form within 7 days of finalisation of BBS/Order

Did you know?

Tiscon Readybuild conforms to IS 1786:2008 rebar specification.



With Tiscon Readybuild, you can complete your projects speedily and on time

Tiscon Readybuild Service Centres

Tiscon Readybuild Service Centres are equipped with the latest machines and follow stringent processes to ensure top quality, customised processing and timely delivery. The raw material (rebars) are sourced from the rolling plants of Tata Steel and buffer of all sections is maintained for 15 days to ensure production is not affected and that work at the site is not hampered.

The service centres are exclusive to Tata Steel and the processes are audited by third party auditors, for fair assessment and to maintain the highest quality standards.

Standardised packaging with procedures for tamper-proof tagging ensure easy identification and ready-to-use bundles at site.

Impossible designs made possible



Code sheet-samples of complex designs

Sample Tag for Type-D

Types of equipment used in Readybuild Centres:



Shearing Line



Automatic Benders



Stirrup Machines

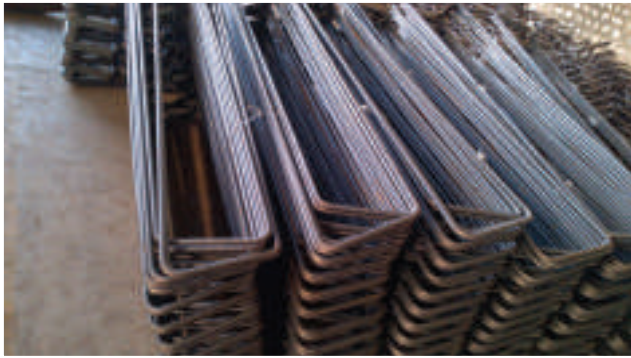
The quality of our service centres assured through



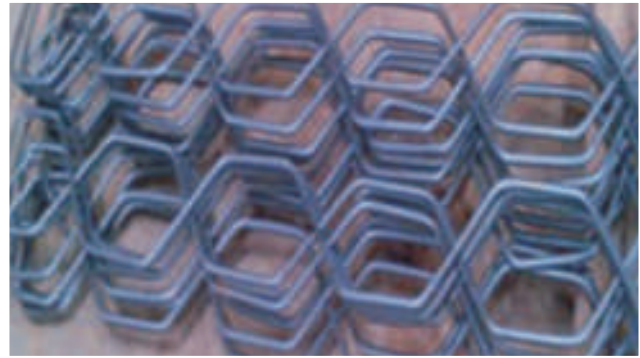
Being designed by Tata Steel and audited by SGS

Unfold to find out how a typical Readybuild centre operates

Samples of shapes produced



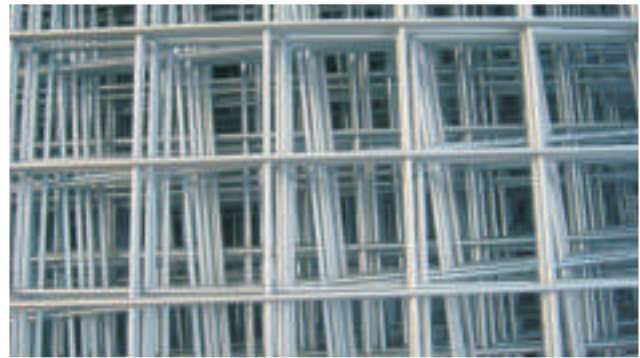
Rectangular



Helical



Spiral



Weld Mesh



Stirrups



Square

Tiscon Readybuild Cut and Bend Services with Couplers

Lapping of rebar is the most common method of reinforcement bar joints. Two bars are laid parallel to one another over a certain lap length and tied together with the help of a binding wire.



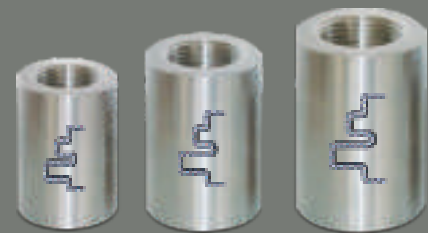
Problem with lapping practice

With an additional length required for lapping of rebars, the practice leads to an extra usage of rebar and increases congestion possibilities at lapping junctions when concrete is poured. Also, the task of holding and tying the bars together is labour intensive and time consuming.

Lapping can be avoided with Couplers

What are Couplers?

Couplers are hollow mechanical members. These are threaded inside and are screwed on to the two rebars which are to be joined to form a robust mechanical joint.



Couplers

Solving the problem with Tiscon Readybuild couplers

In another first for an Indian steel producer, Tata Tiscon has come out with its own line of mechanical couplers, to be used along with Tata Tiscon rebars for avoiding lapping and the losses incurred hence.

As provisioned in IS 456:2000, mechanical coupling options could be used to join two rebars.

Area of application

1. Wall to slab connection
2. Beam to column connection
3. Column-lap replacement
4. Raft foundations
5. Future extensions/additions
6. Precast elements



Wall to slab
connection



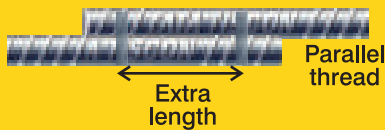
Beam to column
connection



Column-lap
replacement

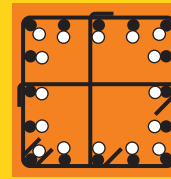
Benefits of using Couplers

Currently, there is no other steel player offering Couplers in India-yet another first for Tata Steel.

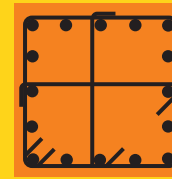


Reduced Rebar Usage

- Lap lengths of the order of 40-50x Diameter, which cannot add any value structurally, are avoided
- Usage of binding wires and difficult handling is avoided



Lapping



w/o Lap

Reduced Congestion

- Smooth flow of concrete during pouring and hence, sound structural integrity
- Ideal Steel ratio ensures optimum steel in structural member cross section



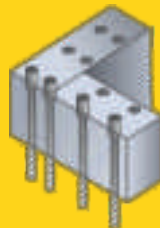
Higher Structural Integrity

Mechanical Joints are less dependent on the concrete for load transfer



Faster Construction

Reduced handling and faster assembly ensures quicker installations



Easier Future Extensions

- It can be installed as provisions for future extensions
- A coupler eliminates the undesired look of extended rebars and the huge amount of concrete breaking required during extension

Did you know?

Our Couplers are in compliance to En8D grade and hence chemistry is as per it's specifications.

TATA Tiscon a promise fulfilled



Over the last 10 years, Tata Tiscon, a brand from Tata Steel's Long Products Division, has established itself as the leading rebar brand in the country. Controlled processes, supervision by expert metallurgists and engineers coupled with highly advanced processes, have ensured that it meets the most stringent requirements of quality and performance.

Tata Tiscon is the only rebar brand in India to be acknowledged as a consumer 'Superbrand' - it acquired this status twice, in 2009-10 and 2011-12. It has recently been ranked among Asia's most promising brands.

Tata Tiscon rebars are available in several variants - Tata Tiscon 500D, Tata Tiscon Super Ductile & Tata Tiscon CRSD and Tata Tiscon Fe 600.



Tata Tiscon 500D – the reliable rebars

Tata Tiscon 500D rebars are general reinforcements which are manufactured in accordance to the latest BIS 2008 standard for lower harmful impurities of sulphur & phosphorus. The product is ideal for houses, dams, bridges, high-rises or any critical structure where yield strength is required, without compromising on elongation. The sizes available for Tiscon 500D are: 8,10,12,16, 20, 25, 28, 32, 36 and 40mm

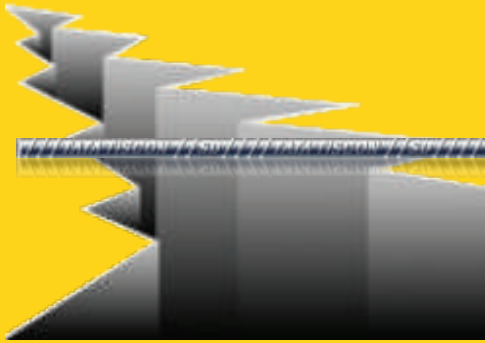


Tata Tiscon CRSD – the corrosion fighter

Tata Tiscon CRSD is a breakthrough innovation to fight corrosion which ensures longer life to structures with its unique protective chemistry offering a CRI of 1.38, which varies for various test conditions. It has high yield strength with good ductility and bendability. These are suitable for foundations and coastal area applications. Tiscon CRSD is available in sizes: 8,10,12,16, 20, 25, 28, 32, 36 and 40mm



Spectrum of products



Tata Tiscon Super Ductile Rebars

Tata Tiscon Super Ductile Rebars is an innovation in seismic damage control. Its speciality lies in the fact that it has much higher UTS:YS ratio compared to ordinary rebars. Its superior mechanical properties and bond strength along with its high energy absorption capacity makes it suitable for higher seismic zones. Tiscon Super Ductile Rebars are available in sizes: 8,10,12,16, 20, 25, 28, 32, 36 and 40mm



Tata Tiscon Fe 600 Super Strength Rebars

Tata Tiscon Fe 600 Super Strength Rebars are high Strength rebars which are best suited for applications like high-rises, buildings, bridges and marine facilities. They help in lesser steel congestion and improved floor spacing area handling. Tiscon Fe 600 Rebars are available in sizes: 16, 20, 25, 28, 32, 36 and 40mm

Product and Applications

Specifications	Special Qualities	Applications
Tata Tiscon 500 D	Excellent bendability and good weldability	General concrete reinforcements in buildings, bridges and other concrete structures
Tata Tiscon CRSD	High corrosion resistance properties	Construction exposed to coastal marine or underground environment
Tata Tiscon SD	Better UTS:YS ratio	Construction in earthquake prone zone
Tata Tiscon Fe 600	High strength rebars- leading to less congestion	High-rise buildings and foundation of buildings

Network of Tiscon Readybuild Service Centres



Tiscon Readybuild Centre Office Addresses

AHMEDABAD

Sachi Solutions Pvt. Ltd.

B-502, Nirman Complex, Navrangpura, Ahmedabad-380009
Phone No: 079-55300108

BENGALURU

BFS Bangalore

"A" Wing, 2nd Floor, Jubilee Bldg. 45 Museum Road, Bangalore-560025
Phone No: 080-25325517/18/19

BHUBANESHWAR

Sagar Business Pvt. Ltd.

Plot No.111, Rudrapur, P.O. Pahal P.S. Baliana, Khurda, Bhubaneswar-752101
Phone No: 067-46510908

DELHI

Daga Trading Co. Pvt. Ltd.

Y-162, Lodha Mandi, Naraina, New Delhi-110028, Phone No: 011-25897554

HYDERABAD

Samrat Iron Pvt. Ltd.

5-4-83, 1st Floor, T.S.K. Chambers, M.G. Road, Secunderabad-500003
Phone No: 040-66905500

JHARKHAND

Pasa Resources P Ltd.

M-I (Part), Phase 6, Adityapur Industrial Area, Ghamaria, Jamshedpur-832108
Phone No.: 0657 242 1498

Shri Ram Sales

G T Road, Kowabandh, Govindpur-828109
Dhanbad, Jharkhand, Mobile: 09204857623

KANPUR

KPJ Distributors

Chak No 1989 Bevine Marg Village, Umaran, Near Rania Industrial Area,
Kanpur, Uttar Pradesh, Mobile No: 9839425522

KOLKATA

Bluemoon Commercial Pvt. Ltd.

2 N.C. Dutta Sarani, Sagar Estate, 4th Floor, Kolkata-700001
Phone No: 033-22306806/6828

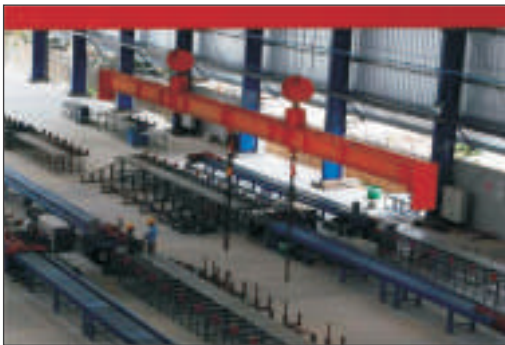
MUMBAI

Indu Coporation Pvt. Ltd.

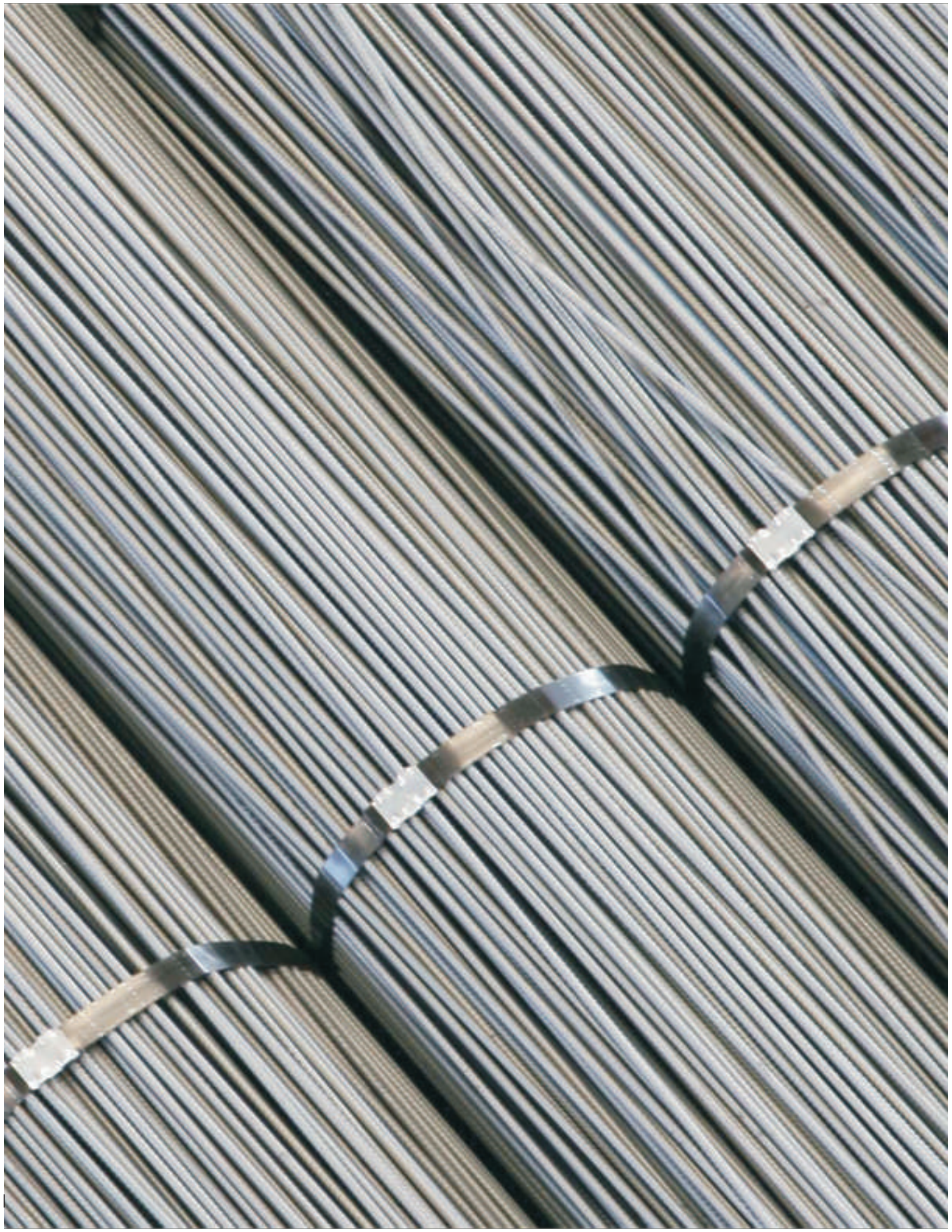
Nishuvi, 4th Floor, 75, Dr. Annie Besant Road, Worli, Mumbai
Mobile No: 9821155000

SKM Constr

Dhruv Logistic Park, Plot No-B1 To B7, Near MIDC Taloja, koynavele,
Panvel, Raigad, Mobile No: 9820883446



Upcoming Centres
Guwahati, Jaipur





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