



Building
the new India



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From the

Management Desk



Mr. Gopal Prasad Agrawal
CMD

A steel product is to the development of robust architectural feat, what a skeleton is to a human body. It bestows strength, enhances life and is the backbone of any solid structure.

As the 4th largest producer of steel in the world, India's steel sector is growing rapidly at the rate of 8% to 10% annually, making a big difference in shaping India's economic ambition. A value creation for many industrial sectors, the steel industry as a benchmark catering to the growing urbanization and industrialization. To meet this increasing demand for TMT rebars, TMTNEXT was launched.

With TMT Next, our endeavour is to commission a stronger, sturdier and empowered India. Through our consistent and quality efforts towards the same, we want to build structures deeply rooted in sincere developmental vision. TMT next is our chosen tool that will drive the future towards a new, better and more skilled tomorrow.

Vandana Global

Vandana Global Ltd has been empowering India since 1996. Registered in Mumbai and works in Raipur (C.G.) the group has positioned itself today to create high value across diverse domains with four key differentiators: state of the art manufacturing technology, efficient quality management, on time delivery and commitment to consumer satisfaction and support. Vandana Global today boasts of successes in a range of domains including manufacturing of Sponge Iron, TMT bars, Wire rods, Ferro Alloys, Mining, Power (Thermal, Solar, and Wind).

As per notification no. 4(8)/2010-SD-I of Ministry of Steel, Government of India, on the basis of process route & technology Vandana Global fulfills the criteria of being a PRIMARY STEEL PRODUCERS.



Vandana Global
Leading the New



TMTNEXT

At TMTNEXT, we believe that it is all about Building the New. We have taken a lead to manufacture quality TMT rebars through hot charging and World's first De-Phosphorization machine, which promises to give high strength, superior quality and purity to the product. We endorse a culture that stands firm in delivering its people-progressive practices. By staying close to the brand values envisaged, each project at TMTNEXT is a step closer to our penultimate goal of creating quality living and work spaces, as well as infrastructure, for the greater good of our mass and premium customers. TMTNEXT has metamorphosed into a multi-city, diversified asset-class business conglomerate.



Building the New

A new-age transforming brand, TMTNEXT is trading strong towards its goal of 'Building the New'. This central idea is synonymous with any construction that is happening for the future growth and development of India, competing with international standards. Following which, construction quality and lifecycle of new-age buildings will increase manifold catering to increased modernization, evolved cities and progress of tomorrow at a faster pace.

While steel continues to have a strong foothold in traditional sectors, such as construction, housing and ground transportation, special rebar steel is increasingly being used in building the new dream in engineering industries, such as power generation, petrochemicals and fertilizers. While building the new big India is occupying a central position on the global steel map, with the establishment of new state-of-the-art steel mills, acquisition and modernization. Building the new strong growth in India, is projected to be higher than the world average, as the per capita consumption of steel is projected to rise to 200 million tonnes by 2015; and TMTNEXT aims at constituting a healthy part of it by building the new life and spreading its expertise to create architectural marvels.



Brand Promises

“A commitment moulded in steel”

Our forte is in unveiling future trends. Constructing rebars on the strong nerves of reliability and security. With its commitment to steel that is adored by generations, TMTNEXT has metamorphosed from just another steel bar manufacturer into a power brand.

As an integrated steel producer, the company rides high on its business models, taking every change as an opportunity to engineer innovation for its variety of stakeholders namely:

Investors & Distributors

Acting as a catalyst of change in the country, TMTNEXT is backed by a high calibre team of metallurgists and engineers who have invested years of trust in their invaluable team of distributors. By providing them with high returns and long-term value creation, the company indirectly makes its investors and distributors a significant contributor in its collective process of building India.

Employees

The research and development department of TMTNEXT is headed by competent engineers equipped with sophisticated diagnostic research equipment. The team regularly inspects random production batches to ensure that the design and profile of the rib and its replication throughout the length of the bar remains uniform. The company's organizational culture encourages its personnel to track and adapt to the latest trends and standards.

End Consumers

TMTNEXT is not just a superior steel bar brand, but is a responsible builder of tomorrow. The brand is deeply committed to making a positive difference to the way people live. It specializes in providing best-in-quality TMT rebars that transform tangible blueprints to concrete landmarks, thus propelling the construction of a prosperous NEW India.

Community

By propelling a community of developed India, TMTNEXT is powering ahead with its presence across the value chain. It stands for the highest standards of trust, integrity, service and corporate social responsibility, while providing holistic solutions to the societal needs. The company lives up to the decades of legacy and expectations built by its parent company by building on the solidity of success, new-age infrastructure and magnificent designs.

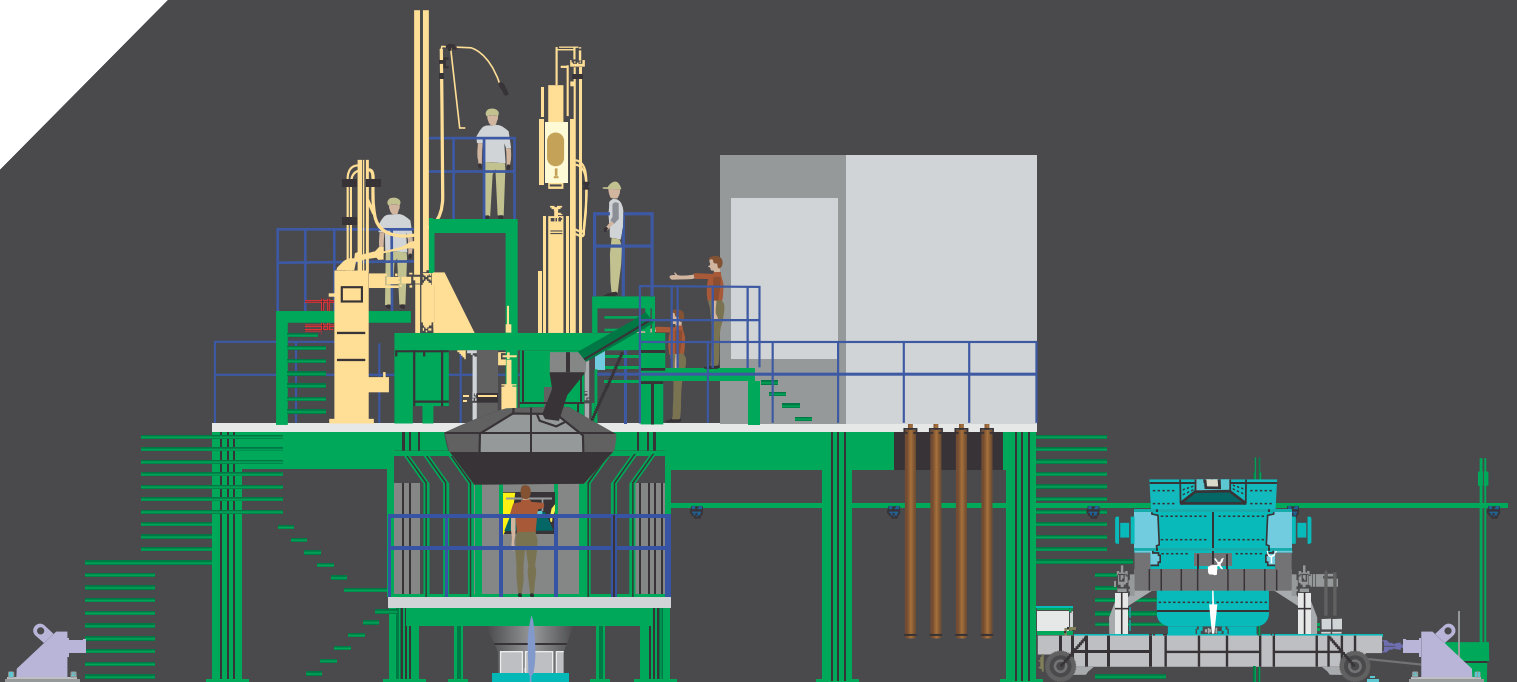


Our Technology

“Using Robust Technology:
Attaining Sustainable Success”

TMTNEXT has been the industry pioneer in innovative and highly durable products in TMT Rebars. It manufactured the TMT rebars using the **World's First “DE-PHOSPHORIZATION” Plant supplied by SIEMENS METALSTECHNOLOGY**. With this first-of-its-kind installation, the brand has placed its rebars successfully on the world map. The company plans to ensure compliance with new specification mandate made by Bureau of Indian Standards (BIS) with regard to low phosphorization and sulphur contents.

The brand's products have earned wide reputation for its design, quality, innovation and consistency.



Our Process

RAW MATERIALS

IRON ORE



COAL



DOLOMITE



DRI



INDUCTION FURNACE



DE - PHOS PLANT



CCM



HOT CHARGING



ROLLING MILL



COOLING BED



FINISHED STOCKYARD FORTMTNEXT

Our Infrastructure

“Empowered Infrastructure: Leaders of Value Chain”

Rolling Mill

The rolling mill epitomises quality and productivity. The company operates 1.8 LTPA capacity TMT Rebar Mill. The Mill produces high strength bar conforming to IS 1786:2008 Fe 415D, 500, 500D, 550, 550D grades. This modern mill is designed in straight line with no twist on thermex technology with automatic tying & bundling system with complete automation to produce TMT bars ranging from 8 mm to 40 mm diameter size which are suitable for high strength applications.

Through effective tagging of each bundle of steel, a three-stage quality process has been internalised so that we inspect, approve, and keep a track of our steel, resultant to which only the best reaches our end consumers and community at-large.

Pre-Manufacturing Stage: The key raw material i.e. billets come from our captive induction, making it easier to ensure consistency and sticking to the best-in-class quality. In order to offer a complete service to the reinforced concrete industry, here the steel is subjected to rigorous mechanical, visual and chemical tests.

Manufacturing Stage: TMTNEXT uses experienced, expert staff to undertake assessments of management systems, production techniques and on-site manufacturing activities. In this stage, the brand is subjected to an initial assessment and continuous monitoring by regular surveillances on all critical parameters, such as temperature, time, structural and dimensional accuracy, to name a few.

Finished Product Stage: A highly advanced quality-testing laboratory equipped with highly sensitive and contemporary equipments, such as Spectrometer Analyser, Computerised UTM machines etc, test the physical and chemical properties of the TMT bars ensuring only those meeting our high standards. In TMTNEXT, hot charging done from CCM of Billets in the rolling mill, which is energy efficient, reduces scaling, and productively shrinks the time of production, making it a more planned and effective affair.

Industry Applications

We at TMTNEXT understand that with changing times, new ideas must be explored and breakthrough products and processes must be attempted. No wonder, our rebars have become the default standards for construction of residential and commercial structures, flyovers, bridges, Industries, Power plants, Dams, Metros, Roads, Railway, Hydro Power to name a few. We extensively serve a large portfolio of designers, investors and construction companies.

Certifications

- ▶ Bureau of Indian Standard (BIS)
- ▶ ISO 9001:2008
- ▶ ISO 14001:2004
- ▶ OHSAS 18001:2007
- ▶ Certification from Thermex Quenching and Tempering Technology
- ▶ Certification from Ministry of Steel for Primary Steel Producers

Quality

“Leaders of Quality: A Standing Testimony to Time”

In our lexicon, the term quality stands at the forefront.

Our TMT quality begins with state-of-the-art melt shops that ensure advanced control of product composition, structure, and inclusion pattern resulting in very clean steel. Our goal is simply to ensure that construction steels are quality-approved materials, meeting global standards, and thereby maintaining confidence in infrastructure and building construction.



Service Uniqueness

At TMTNEXT, knowledge and technology facilities are used as the weapons to create TMT Rebars that in return, enhance the construction quality of life and structures. Bringing dreams to reality, our unique service offerings that give us a clear edge over our competitors are:

- ▶ **Tailor-Made and Focused Range of Products and Services:** The brand stocks a wide variety of rebar sizes from 8mm to 40mm and we also produce tailor-made, especially customised steel rebars as per the requirement in steel grade, tolerances, dimensions, edge quality, finish and packing.
- ▶ **Extensive Sales and Distribution Network:** Our excellence is complimented by the presence of our extensive and robust distribution channel, which is strongly backed by our strong sales and marketing team spanning over a host of developed industries. We are pursuing remarkable growth in developing urbanized areas and have a strong foothold in industrial hub and townships that gives us lasting customer relationships and a solid market position.
- ▶ **Strong Project Management and Competent Work Personnel:** Equipped with a top-notch technical, dynamic and professional management team, TMTNEXT is indeed a strong brand geared to produce the toughest variety of steel bars. It has the most dedicated and methodological team that has target-oriented distribution skills across all stages of steel manufacturing. The brand regularly conducts workshops that are aimed at developing organisational excellence, quality awareness, skill upgradation and constant customer satisfaction.
- ▶ **Cutting-Edge Communication Technology:** At TMTNEXT, we understand our communication business very well and take it very seriously. With an aim to emerge as a world-class leader, we remain abreast with the changing consumer patterns. We have an unflinching commitment towards our customers, and this commitment is being realised by continuously perking up our multi layered mechanism of marketing, branding and distribution. We have a dedicated and committed TOLL FREE number that is very efficient in pre and post sales assistance.



Features & Advantages

of TMTNEXT

TMTNEXT has gone beyond just constructing steel rebars and has created a brand to reckon with. It has been able to consolidate a premier pole position in the market because of the following advantages:



Integrated Steel Plant: Backed with state-of-the-art technology and world-class manufacturing facility in the state of Chhattisgarh, TMTNEXT is known for providing its patrons with world class, innovative and cost-effective solutions. Being an ISP the manufacturing process ensures the steel is purified using best grade raw material with best intermediary processes. Lower impurity content gives it uniform properties across the length.



Ductility: TMT Next is one of the most ductile rebars present in the market today, having high ability to give optimum performance under tensile stress. The manufacturing process which leads to the creation of our industry ready rebars is such that their ductile properties are always an integral part of our high performance promise and delivery.

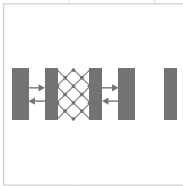


Powering Ahead with Technological Advancement: After years of dedicated research and development, TMTNEXT has commissioned WORLD'S FIRST DEPHOSPHORIZATION PLANT, which is installed with continuous casting machine I/F DRI Scrap Liquid Metal Dephosconcast. Tested and proven, this well-controlled process brings down the presence of sulphur and phosphorous- impurities found inherently in steel. Reprocessing/refining of liquid metal, in DE-PHOSPHORIZATION takes place with the help of technology from Siemens.



Corrosion Resistant: TMTNEXT rebars are made from low carbon in-house manufactured billets. To manufacture TMTNEXT, Quenching and self-tempering system is done by the world renowned 'THERMEX' (Henigsdorfer Stahl Engg (HSE) GmbH, Germany) which is built to withstand even the worst corrosion conditions.

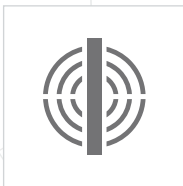




Superior Bonding & Uniform Rib patterns: TMTNEXT bars provide unique and precise rib pattern assisted by computer-operated CNC machine. This uniform rib pattern method ensures excellent bonding with concrete. Parallel and longitudinal ribs on TMTNEXT bars are produced by high speed finishing cantilever mill stand using tungsten carbide rolls that give required accurate dimensional tolerance with excellent surface finish.



Bendability: Low level of carbon is maintained by the capable in-house manufacturing of high quality Sponge Iron and Silico manganese. Apart from their high strength, TMTNEXT rebars have superior bendability that facilitates easy bending, which makes work easier and smooth at construction site. Its high percentage elongation meets ultimate tensile strength to yield strength ratio to steel bars.



Creating Robust Earthquake-Resistance: Use of Thermex Technology (Heingsdorfer Stahl Engg (HSE) GmbH, Germany) in a highly controlled process ensures the production of a micro-structure with a softcore (Ferrite and Pearlite), TMTNEXT rebars have high resistance to cyclic loadings and are made by keeping India's most seismic zones that are prone to earthquake into consideration.



Fatigue & Rock Solid Resistance to Fire: TMTNEXT is the manufacturer of corrosion and fire resistance steel plant in Chhattisgarh, which takes care of stringent quality standards and contemporary technology called, Quenching and Tempering (TMT) Technology. These treatments take place at the temperature of approximately 625 degree Celsius in a consistent and thick layer of tempered martensitic ring on the outer surface of a rebar imparting high capacity to retain strength at higher atmospheric temperature and pressure.



Cost Saving: Since TMTNEXT bars have higher strength and tolerance, they ensure that a lesser quantity of steel (TMT bars) are needed. This ultimately results in lower overall cost of construction.



TMTNEXT - Specifications

TEST	UNIT	MANDATORY AS PER IS:1786 - 2008		TMT NEXT STANDARD (PREFERABLE)		MANDATORY AS PER IS:1786 2008		TMT NEXT STANDARD (PREFERABLE)		MANDATORY AS PER IS:1786 - 2008		TMT NEXT STANDARD (PREFERABLE)	
		Fe - 415		Fe - 500		Fe - 500		Fe - 500		Fe - 500		Fe - 500	
MECHANICAL PROPERTIES													
YIELD STRESS	N/mm ²	415 Min.		450 Min.		500 Min.		530 Min.		500 Min.		530 Min.	
TENSILE STRENGTH	N/mm ²	10% more than the actual Y/S		12% more than actual Y/S		8% more than the actual Y/S		12% more than actual Y/S		10% more than the actual Y/S		12% more than actual Y/S	
ELONGATION		14.5 Min.		16 Min.		12 Min.		14 Min.		16 Min.		18 Min.	
UNIFORM ELONGATION	%	5.0 Min.		5.5 Min.		5.0 Min.		6.0 Min.		5.0 Min.		6.0 Min.	
Size (mm)		Bend	Re-bend	Bend	Re-bend	Bend	Re-bend	Bend	Re-bend	Bend	Re-bend	Bend	Re-bend
8		24 (3D)	40 (5D)	24 (3D)	32 (4D)	32 (4D)	40 (5D)	24 (3D)	32 (3D)	24 (3D)	32 (4D)	16 (2D)	24(3D)
10		30 (3D)	50 (5D)	30 (3D)	40 (4D)	40 (4D)	50 (5D)	30 (3D)	40 (4D)	30 (3D)	40 (4D)	20 (2D)	30 (3D)
12		36 (3D)	84 (7D)	36 (3D)	48 (4D)	48 (4D)	84 (7D)	36 (3D)	60 (5D)	36 (3D)	72 (6D)	24 (2D)	60 (5D)
16		48 (3D)	112 (7D)	48 (3D)	80 (5D)	64 (4D)	112 (7D)	48 (3D)	80 (5D)	48 (3D)	96 (6D)	32 (2D)	80 (5D)
20		60 (3D)	140 (7D)	60 (3D)	100 (5D)	80 (4D)	140 (7D)	60 (3D)	100 (5D)	60 (3D)	120 (6D)	40 (2D)	100 (5D)
25		100 (4D)	175 (7D)	75 (3D)	125 (5D)	125 (5D)	175 (7D)	100 (4D)	125 (5D)	100 (4D)	150 (6D)	75 (3D)	125 (5D)
28		112 (4D)	196 (7D)	84 (3D)	140 (5D)	140 (5D)	196 (7D)	112 (4D)	140 (5D)	112 (4D)	160 (6D)	84 (3D)	140 (5D)
32		128 (4D)	224 (7D)	41 (3D)	160 (5D)	160 (5D)	224 (7D)	128 (4D)	160 (5D)	128 (4D)	192 (6D)	96 (3D)	160 (5D)
36		144 (4D)	252 (7D)	42 (3D)	180 (5D)	180 (5D)	252 (7D)	144 (4D)	180 (5D)	144 (4D)	216 (6D)	108 (3D)	180 (5D)
40		160 (4D)	280 (7D)	43 (3D)	200 (5D)	200 (5D)	280 (7D)	160 (4D)	200 (5D)	160 (4D)	240 (6D)	120 (3D)	200 (5D)
CHEMICAL COMPOSITION													
CARBON	%	0.30 Max.		0.22 Max		0.30 Max.		0.22 Max		0.25 Max		0.22 Max	
SULPHUR	%	0.060 Max.		0.060 Max.		0.055 Max.		0.050 Max.		0.040 Max.		0.035 Max.	
PHOSPHORUS	%	0.060 Max.		0.060 Max.		0.055 Max.		0.050 Max.		0.040 Max.		0.035 Max.	
S+P	%	0.110 Max.		0.110 Max.		0.105 Max.		0.100 Max.		0.075 Max.		0.070 Max.	
CARBON EQUIVALENT	%	0.42 Max.		0.32 Max.		0.42 Max.		0.32 Max.		0.42 Max.		0.34 Max.	
Mn	%	Not Mentioned		0.6		Not Mentioned		0.6		Not Mentioned		0.60 to 0.80	

A		B		C					
		ISI		As per TMTNEXT™					
Diameter in mm	STANDARD Wt.	STANDARD MEAN wt.	TOLERANCE IN Wt.	TOLERANCE IN Wt. Kg/meter	MEAN Wt.	No. of pieces per bundle	Per bundle MEAN wt. in KG	Per bundle Wt. In Kg. Minimum	Per bundle Wt. In Kg. Maximum
	Wt. kg/meter		%	Wt. kg/meter					
8	0.367 to 0.423	0.395	± 7 %	0.371 to 0.395	0.383	15	70	68	72
10	0.574 to 0.660	0.617	± 7 %	0.585 to 0.620	0.603	8	59	57	61
12	0.844 to 0.932	0.888	± 5 %	0.855 to 0.890	0.873	6	64	63	65
16	1.500 to 1.659	1.580	± 5 %	1.510 to 1.555	1.533	3	56	55	57
20	2.395 to 2.544	2.470	± 3 %	2.400 to 2.445	2.423	2	59	59	60
25	3.730 to 3.965	3.850	± 3 %	3.735 to 3.780	3.758	1	46	46	46
28	4.685 to 4.975	4.830	± 3 %	4.700 to 4.745	4.723	1	58	57	58
32	6.121 to 6.499	6.310	± 3 %	6.130 to 6.175	6.153	1	75	75	75
36	7.746 to 8.225	7.986	± 3 %	7.748 to 7.984	7.866	1	96	95	97
40	9.554 to 10.145	9.860	± 3 %	9.560 to 9.605	9.583	1	117	117	117
TMTNEXT bar Standard length is 12.2 Meter									

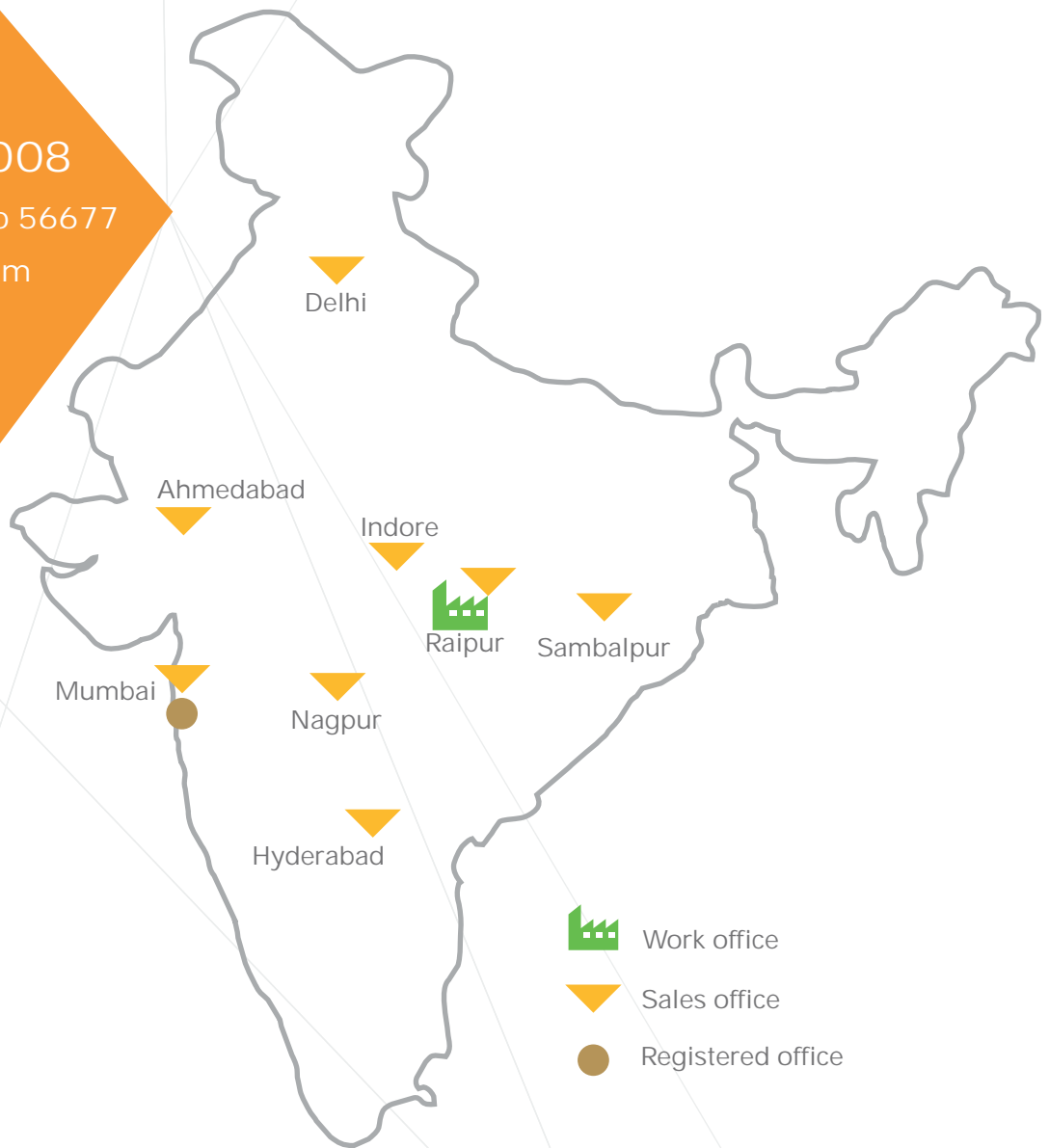


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