



PANKAJ  
GROUP

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**SAGAR<sup>®</sup>**  
**TMT** SAGAR ISI TMT

मजबूती और विश्वास का नया नाम...

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We grow with go green in hot charging process

# POLLUTION FREE



# GO GREEN

**ALANKAR ALLOYS PVT. LTD.**  
Factory - Bhilai Steel Plant Road, Raipur (C.G.)  
ISO 9001:2015  
150

TEST RESULTS

Order No.	Material No.	Grade	Spec.	Mechanical Properties				Chemical Analysis				Actual Size	Tolerance	
				Y.S.	U.T.S.	E.L.	Y.P.	C	Mn	P	S			
1	1040	1040	1040	310	510	0.25	0.25	0.005	0.005	0.005	0.005	0.005	0.005	0.005
2	1040	1040	1040	310	510	0.25	0.25	0.005	0.005	0.005	0.005	0.005	0.005	0.005
3	1040	1040	1040	310	510	0.25	0.25	0.005	0.005	0.005	0.005	0.005	0.005	0.005
4	1040	1040	1040	310	510	0.25	0.25	0.005	0.005	0.005	0.005	0.005	0.005	0.005
5	1040	1040	1040	310	510	0.25	0.25	0.005	0.005	0.005	0.005	0.005	0.005	0.005
6	1040	1040	1040	310	510	0.25	0.25	0.005	0.005	0.005	0.005	0.005	0.005	0.005
7	1040	1040	1040	310	510	0.25	0.25	0.005	0.005	0.005	0.005	0.005	0.005	0.005
8	1040	1040	1040	310	510	0.25	0.25	0.005	0.005	0.005	0.005	0.005	0.005	0.005
9	1040	1040	1040	310	510	0.25	0.25	0.005	0.005	0.005	0.005	0.005	0.005	0.005
10	1040	1040	1040	310	510	0.25	0.25	0.005	0.005	0.005	0.005	0.005	0.005	0.005
11	1040	1040	1040	310	510	0.25	0.25	0.005	0.005	0.005	0.005	0.005	0.005	0.005
12	1040	1040	1040	310	510	0.25	0.25	0.005	0.005	0.005	0.005	0.005	0.005	0.005
13	1040	1040	1040	310	510	0.25	0.25	0.005	0.005	0.005	0.005	0.005	0.005	0.005
14	1040	1040	1040	310	510	0.25	0.25	0.005	0.005	0.005	0.005	0.005	0.005	0.005
15	1040	1040	1040	310	510	0.25	0.25	0.005	0.005	0.005	0.005	0.005	0.005	0.005
16	1040	1040	1040	310	510	0.25	0.25	0.005	0.005	0.005	0.005	0.005	0.005	0.005
17	1040	1040	1040	310	510	0.25	0.25	0.005	0.005	0.005	0.005	0.005	0.005	0.005
18	1040	1040	1040	310	510	0.25	0.25	0.005	0.005	0.005	0.005	0.005	0.005	0.005
19	1040	1040	1040	310	510	0.25	0.25	0.005	0.005	0.005	0.005	0.005	0.005	0.005
20	1040	1040	1040	310	510	0.25	0.25	0.005	0.005	0.005	0.005	0.005	0.005	0.005
21	1040	1040	1040	310	510	0.25	0.25	0.005	0.005	0.005	0.005	0.005	0.005	0.005
22	1040	1040	1040	310	510	0.25	0.25	0.005	0.005	0.005	0.005	0.005	0.005	0.005
23	1040	1040	1040	310	510	0.25	0.25	0.005	0.005	0.005	0.005	0.005	0.005	0.005
24	1040	1040	1040	310	510	0.25	0.25	0.005	0.005	0.005	0.005	0.005	0.005	0.005

- मानक : पथप्रदर्शक : IS 2831 : 2012
- मानक : पथप्रदर्शक : IS 1786 : 2008
- मानक : पथप्रदर्शक : IS 2062 : 2011
- मानक : पथप्रदर्शक : IS 432 Part 1 : 1982
- मानक : पथप्रदर्शक : IS 10748 : 2004
- मानक : पथप्रदर्शक : IS 1161 : 2014
- मानक : पथप्रदर्शक : IS 3601 : 2006
- मानक : पथप्रदर्शक : IS 4923 : 2017





## CHAIRMAN'S DESK

By focusing on quality we have gradually won the trust of perceptive customers.

As in steel industry, our primary goal is to be a quality leader in Customized Products and Re-Inforcement Bars through integrated production infrastructure, continuous process improvements, organized training & motivation, as well as categorical commitment to the customer's needs.

At the core of every business, it comes down to people. This is why at Pankaj Group our focus is to put people first – providing the “human touch” to every aspect of our business. Combined with our solid commitment to quality and integrity, the experience of working with Pankaj Group as a business partner or employee is a fulfilling and memorable one. Founded in 2000 our company has nurtured a long and established history in the CG, growing from, as we like to say “the inside out”. The Group now has 5 successful companies, each replicating the same commitment to people and quality as espoused by the Group overall.

This is the legacy that has earned our company the ISO 9001: 2015 certification, as well as the unwavering trust and loyalty of so many of our customers over the years. Pankaj Group's has translated this pursuit of excellence into continuing its long term expansion plans. I know that our commitment to being the very best will continue to lead us in successful and prosperous directions.

MR. LALIT AGRAWAL  
Founder Chairman



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## ABOUT US

Pankaj Group is a fast growing company in steel sector in India. It has been in corporate since 2000. This group established as a small scale industry and in a very short span of time, It became a large steel Industry in a steel sector. With its timeless business philosophy Pankaj group is primed to not merely survive but win in a market-place marked by frenetic change. The company is very much a future corporation, poised to become the most preferred steel manufacture in the country. The Profound Personality behind the success of Pankaj Group is Shri Lalit Agrawal is the founder chairman of the company Having rich experience of steel Industries and who started the company and without whose vision Pankaj Group would not have enjoyed the fruit of success and fame.

His son Shri Pankaj Agrawal Managing Director of Pankaj Group having sound, Knowledge and great capabilities to expand the business , And give the height of this group in steel sector, and his integrated approach intellectual capabilities and business acumen raised the company to the new height and provided the company a solid foundation. While invoking profound respect among all who meet him, he is still the embodiment of humanity, love and goodwill to all.

Lead by Shri Akash Agrawal the youngest son of Shri Lalit Agrawal who is also the Managing Director of the Pankaj Group, Having Immense Knowledge, Innovative Thoughts, Technical Sound in the field of steel sector. Smt. Usha Devi Agrawal wife of Shri Lalit Agrawal is also the Director of Pankaj Group whose encourage and motivate the Group and act as a Back Bone for the company.



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# SAGGAR TMT



## MISION

Our vision of being a winning organization is driven by business processes that are dynamic, quality that is world class, and an innovative approach to understand market dynamics.



## VISION

Our aim is to be right at the top in Steel Manufacturing with state of the TMT Bar, Billets, Pipes manufacturing processes. Manufacturing, where path breaking technologies to meet any challenge and successfully take us to an eliminating and everlasting leadership position.



## CORE VALUES

We endeavor to become learning and knowledge based organization. The company will establish itself and preferred supplies by offering quality product to its customers. The company will strive to become one of the most cost competitive steel industry and generate with it serve its customers the surrounding community and the nation.



## OBJECTIVE

- Striving for Excellency
- Produce high quality of products
- Committed for supply according to demand
- High quality with lowest cost
- Adopting new technology
- Assurance society for safe & fearless life
- Customer Satisfaction
- Contribute to develop the nation to produce High quality & High Production

## OUR SPECIALITIES

- Maintaining Quality as per BIS & ISO 9001 : 2015
- High strength & better Elongation: Because of thermo mechanical treatment
- Better Bend Ability : Because of elasticity & best chemical composition
- Strong Concrete Grip: Due to special design
- Rust Resistance
- Best Ductility : Due to Special metallurgical property it having resistance to earth quake
- Uniformity : SAGAR TMT having computerized system to check length, weight should be uniformity
- Excellent Weld Ability : Due to less carbon percentage TMT assist for welding
- Fire Resistance : Due to special chemical properties it saves us from the fire
- Easy work ability : Due to excellent weld ability & bend ability it help us & save our time at work place
- Quality with Cost Saving.



**PANKAJ**  
GROUP



## ASSOCIATES

Pankaj Group Of Naming Five Companies

1. Pankaj Ispat Ltd. The Pioneer Company.
2. Alankar Alloys Pvt. Ltd.
3. Sourabh Rolling Mills Pvt. Ltd.
4. Tridev Ispat Pvt. Ltd.
5. Shree Somnath Iron & Power Pvt. Ltd.

Group having 3500 direct & indirect workforce enjoying work with full of efficiency and peace atmosphere with long term relationship. Group having young energetic, techno and commercial experts. In our Management team enjoying with strong administrative and leadership System.

The group Endeavor to Strengthen India's industrial base by adding infrastructure development through sustainable development approaches and inclusive growth. It develops its resources to improve Infrastructure, Education, Health, Water, Sanitation, Environment and so on in the areas of operation



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## PANKAJ ISPAT LTD.

Company is Situated at Gogaon , Raipur, Chhattisgarh. Company having Steel Melting Shop to manufacture of steel Billets and one 18" Automatic Rolling Mill Manufacturing of TMT Bars ranging from 8 mm to 40 mm. Company having more than 700 workers (Direct/Indirect) enjoying work with Pleasant Atmosphere. Company having well furnished Office, Stores and Modern Equipments in Laboratory for testing of Chemical Composition and Physical Strength of Raw and Finished Materials.

## SOURABH ROLLING MILLS PVT. LTD.

Company is Situated at Village Kanhera, Urla Industrial Area, Raipur Chhattisgarh. Company having two units (unit I & unit II) in unit I Company having Four Steel Melting Shop of 8 each and one caster machine of 4/7 radius with two stands for manufacturing of steel billets as Per BIS Norms and one 18" Automatic Rolling Mill for Manufacturing of TMT Bar ranging for 8 mm to 40 mm. And in Unit II Company having one Steel Melting Shop of 10 MT Capacity Manufacturing of M.S. Billets Per BIS Norms. Company having well furnished Office, Stores and Modern Equipments in Laboratory for testing of Chemical Composition and Physical Strength of Raw and Finished Materials. Company having more than 1200 Direct and Indirect Workers. Company is planning to set up backward integration very soon.

## SHREE SOMNATH IRON & POWER PVT. LTD.

Company is situated at Village-Bendri, Dharsiwa Industrial Area, Raipur Chhattisgarh. With State-of-the-Art Manufacturing facility Company having more than 300 Skilled and unskilled workers. Company having well furnished Office, Stores & Modern Equipments in Laboratory.



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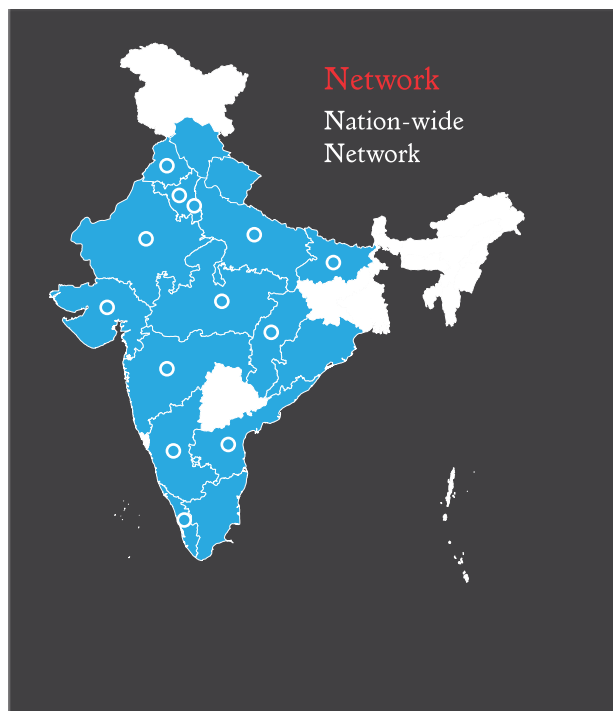
## ALANKAR ALLOYS PVT. LTD.

Company is Situated at Vill. Borjhara , Guma Road, Urla Industrial Area Raipur Chhattisgarh. Company having Four Steel Melting Shop of 10 Mt Capacity each and one Caster machine of 4/7 radius with two Stands. For Manufacturing of Steel Billets. Company having one 18" Automatic Rolling Mill for Manufacturing TMT Bars ranging from 8 mm to 40 mm. Company having Integration Direct hot Charging facility.

Company Manufacturing Billet & TMT bar as Per BIS Norms. Company having more than 1100 Direct/Indirect work force ready for achieve the target, with peace atmosphere. Company having well furnished Office, Stores and Modern Equipments in Laboratory for testing of Chemical Composition and Physical Strength of Raw and Finished Materials.

## TRIDEV ISPAT PVT. LTD.

Company Situated at Village Sarora, Urla Industrial Area, Raipur, Chhattisgarh. Company having one Steel Melting Shop 10 MT Capacity Manufacturing of Billet, As Per BIS Norms. Company having more than 200 Skilled and Unskilled workers. Company having well furnished Office, Stores and Modern Equipments in Laboratory for testing of Chemical Composition and Physical Strength of Raw and Finished Materials.





## GUIDING PRINCIPLE

### Quality Assurance Plan

With customer oriented approach, it has become imperative to maintain strict quality management, while manufacturing TMT bars and therefore Pankaj Group is committed to quality management throughout the manufacturing process. Companies' in-house quality Assurance Division is fully equipped to test various raw materials and products to ensure the desired quality parameters. The activities of the quality assurance division are governed by skilled metallurgist and technicians. Who are involved in through inspection of the products and raw materials to minimize the chances of error? Sophisticated testing facilities, commitment to excellence and continuous improvement have enabled the company to produce best quality TMT bars.

### SAGAR TMT Bars Uniqueness

- Unique TMT Bar in Chhattisgarh adopting German Technology
- Having range from 8 mm- 40mm
- Grade Fe 415, Fe 500 & Fe 550

### Quality Accreditation

#### SAGAR TMT

- Is fully equipped with modern testing equipments like
- UTM (Universal Testing Machine)
- 100 KN. & laboratory for testing finished products & Raw Materials to be fulfill BIS Specification
- Spectrometer

### Safety

Safety at Pankaj Group, a safe business is a good business. It is our fundamental belief that safety issues must rank alongside issues of quality, productivity and profitability in the decision-making process.

The company not only gives priority to safety and health in the selection of plant, equipment and materials, but also involves its employees by inviting their active participation in safety committees meetings and programs to emphasize on the following attributes.

### Culture

A strong safety culture has been instilled at every level of Pankaj Group. Every newcomer is drilled into safety precautions a regular work practice

### Procedures

A robust set of safety standards and a system of performance monitoring helps to reduce accident levels year-on-year. The standards and procedures are strictly maintained by Safety Supervisors.







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**TMT** SAGAR ISI TMT  
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## Mechanical Properties

Properties	Indian Standard (IS 1786)			SAGAR TMT		
Grade	Fe - 415	Fe - 500	Fe - 500 D	Fe - 415	Fe - 500	Fe - 500 D
Yield Strength (N/mm <sup>2</sup> )	415	500	500	450	530	530
Ultimate Tensile	485	545	565	530	565	585
Elongation, Min (%)	14.5	12	16	16	16	18

## BIS Tolerance & Saving with SAGAR TMT

Section	Wt. (kg./Mtr)	Tolerance Limit ( in kg/m)	SAGAR TMT Avg. Wt.	Variation in %
6 mm	0.222	0.206-0.238	0.214	± 7
8 mm	0.395	0.367-0.423	0.375	± 7
10 mm	0.617	0.574-0.660	0.580	± 7
12 mm	0.888	0.844-0.932	0.850	± 5
16 mm	1.580	1.501-1.659	1.510	± 5
20 mm	2.470	2.396-2.544	2.410	± 3
25 mm	3.850	3.735-3.965	3.750	± 3
28 mm	4.830	4.685-4.975	4.730	± 3
32 mm	6.310	6.120-6.500	6.210	± 3

## Estimated weight of SAGAR TMT Bars

Size	No. of TMT in a Bundle		Weight per Meter (in Gram)	Weight of Bundle in Kg.		% Variation in weight
	12 Mtr			40 ft		
	40 ft			12 Mtr		
6 mm	30		222	64		±2
8 mm	15		375	68		±2
10 mm	10		580	70		±2
12 mm	7		850	71		±2
16 mm	3		1510	54		±2
20 mm	3		2410	87		±2
25 mm	1		3750	45.5		±2
28 mm	1		4730	57		±2
32 mm	1		6210	75		±2

## Chemical Composition

Element	Unit	Indian Standard (IS 1786)			SAGAR TMT		
Grade	%	Fe - 415	Fe - 500	Fe - 500 D	Fe - 415	Fe - 500	Fe - 500 D
Carbon	%	0.30 Max	0.30 Max	0.25 Max	0.22 Max	0.22 Max	0.25 Max
Sulphur	%	0.060 Max	0.055 Max	0.040 Max	0.055 Max	0.050 Max	0.040 Max
Phosphorus	%	0.060 Max	0.055 Max	0.040 Max	0.055 Max	0.050 Max	0.040 Max
S+P	%	0.110 Max	0.105 Max	0.075 Max	0.110 Max	0.100 Max	0.070 Max

## CSR Policies

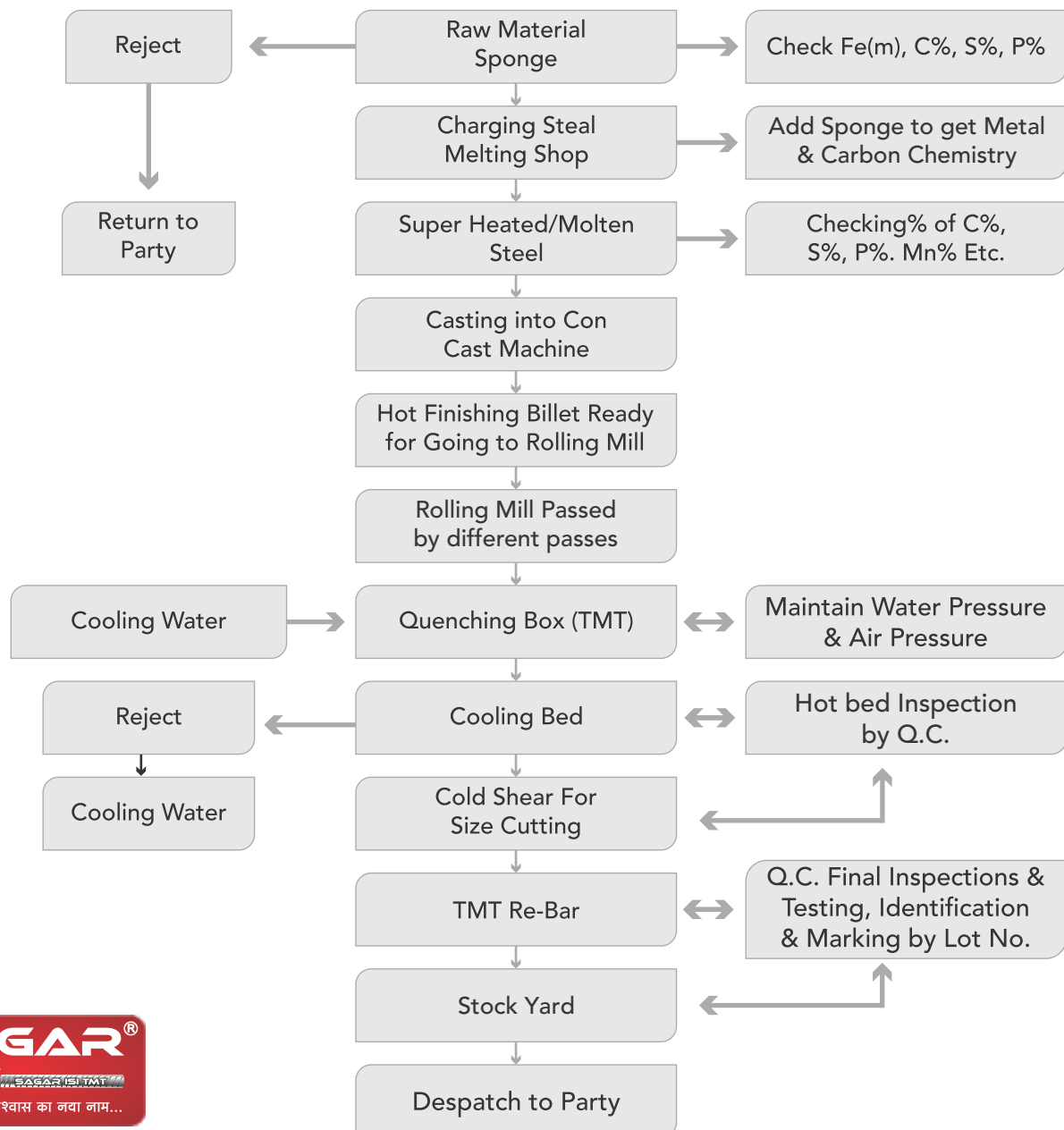
Corporate Social Responsibility should be in the gene of every group. Our progression should be allied so as to benefit the society. If society flourishes, so will the organization.

Pankaj Group, in future, is planning not to deal with companies which do not conform to a certain minimum standard of corporate social responsibility. We head to become the global benchmark for corporate social accountability. The purpose of our company is to improve the quality of life in the society. Pankaj Group has adopted social responsibility as one of its integral values and has made strenuous efforts to link it with the group's overall stratagem for achieving business excellence. Besides undertaking CSR initiatives, the group has been actively involved in facilitating the development of this concept in India & stepping towards setting standards and benchmarks.

## PANKAJ GROUP OF COMPANIES

(Pankaj Ispat Ltd., Alankar Alloys Pvt. Ltd., Sourabh Rolling Mills Pvt. Ltd.)

DOCUMENT NO : PIL/RMD-QM/01 | PRODUCTION FLOW CHART



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## Equipment

Every worker is equipped with safety gadgets like helmets, gloves, boots, welding and safety goggles. In addition the company maintains support equipment to cover risks of fire and accident.

## Maintenance

All moving equipment and machinery are meticulously maintained. Load testing of overhead cranes is regularly undertaken to ensure risks are minimized.

## Health Policy

Health is wealth, goes an old saying; a person with a sound body can take on more responsibilities than a person less fit or ill. In India, there are lots of people who need medical attention but cannot avail of it due to the cost of treatment. We at Pankaj Group Steel believe that we are responsible to help those underprivileged people, so they attain a sound body and sharp mind and help us to create a better tomorrow.

## Quality Policy

At Pankaj Group, total customer satisfaction is our top priority. Our company implements a rigorous inspection and testing process to make sure our customers receive a product that matches the highest standards of quality and consistency.

To ensure this we have a full-fledged in house chemical and physical testing laboratory with latest Spectrometer and fully trained and dedicated quality assurance team. We also have system based working at all levels which minimizes human error.

To ensure that our customers get Genuine Products from traders & dealers.

## Environment

Like most industrial processes, the process of steel production can be in conflict with nature. At Pankaj Group we are conscious of the need to work in cycle with the environment and strive hard to contain pollution and promote nature wherever we can. We also realize that each of us has a responsibility to educate our co-workers and the public about environmental issues for the sake of future generations.

Hence, Pankaj Group strives in the following areas.

**Pollution Control :** Pankaj Group plants abide by with norms set by authorities in managing the environment and reducing pollution in the areas where it operates. We utilize classy control and monitoring equipment. All effluents are treated before they are discharged. Recently, we celebrated World Environment Day 2016 at our organization spreading the message of keeping the environment clean & healthy.

**Green Strap :** Around the manufacturing plants we actively encourage strengthening the green cover. Every factory has a Green Belt unit embedded to it and we plant trees and maintain gardens to actively reduce emission levels in the factory and environment beyond it.

**Rainwater Harvesting :** Industrial usage of water can rapidly deplete ground water levels with severe long term consequences. We have started active rainwater harvesting to save much needed water. The measures undertaken by Pankaj Group to promote environmental causes have been recognized at various forms.

## TMT Bars

Pankaj Group has moved up the value chain as one of the most prestigious names in the steel industry and has won many accolades for its rigorous quality standards and for more than a decade has been serving the steel industry as an external processing agency for a few primary producers in the trade.

Modern infrastructure and facilities coupled with a stringent quality control help Pankaj Group to produce high-grade TMT bars in strict compliance.

Using this all round expertise in the production of quality TMT Bars.

This unit will roll out high quality Fe 500 TMT bars, the first of its kind in Chhattisgarh. Made from best quality prime billets, these bars will be a unique choice for general purpose concrete reinforcement structures, bridges, Highways and flyovers, dams, thermal and power plants, industrial structures, high-rise buildings, and other superstructure based needs. TMT bars are available in grades of Fe415 and Fe500 in size range of 8 to 40mm at the re-tail/distribution network across Chhattisgarh. Size range: 8, 10, 12, 16, 20, 25, 28, 32 & 40 mm TMT.

TMT bars are produced in state-of-the-art plants under close supervision of our frontline metallurgists and engineers. The raw materials used are made from virgin iron ores through steel melting shop Steel Billet Casting route with lowest amount of impurities and rolled to perfection.

### Why SAGAR TMT is better than others ?

SAGAR TMT	OTHERS
It has more tensile strength then it's standard so the construction is more stronger.	It has less tensile strength so the grip on construction is very low period.
SAGAR TMT has maximum deterioration rate because of its standard chemical composition	Simple TMT/Tor has a high deterioration rate so the grip on construction is generally decreasing day by day
Customer gets better quality in low cost	Simple TMT/Tor are sub standard quality, that is why available at low rate but due to weak construction it proves costly.
As per ISI standard every TMT bar has a fixed weight & Equal tensile strength	Irregular weight always
Complete chemical testing of raw material & TMT Bars.	Ordinary tested
Produced by Automatic Plant	Produced by Small & Manual Plant.



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Corporate Office

## Pankaj Group

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