

**BUILT WITH TRUST**



**SABS**  
APPROVED

# THE POWER OF STEEL

ENHANCE STRENGTH  
BETTER DUCTILITY  
EXCELLENT RESISTANCE







**Lubumbashi**—the Mining Capital of the – Africa’s fast-growing economy has great opportunities for bridging infrastructure improvement.

In the year 2005, **SOMIKA Group** and **STEELMAKERS - NAIROBI** came together to form a company that would gear the economics of infrastructure development in D.R.Congo, and thus the SOTRAFER was formed. The pioneering spirit in both companies lives on today.

**SOTRAFER** is engaged in the manufacturing of high-quality TMT STEEL BARS (**Thermo Mechanically Treated**). To produce high-grade TMT STEEL BARS - having high yield strength – the company produces mild steel billets through an Induction furnace and CCM. These billets are manufactured as per **SABS (South African Bureau of Standards)**.

Apart from producing TMT Bar – SOTRAFER also produces Oxygen (Industrial & Medical), Nitrogen, and Acetylene gases, parallelly it also supply Argon Gases in the region.

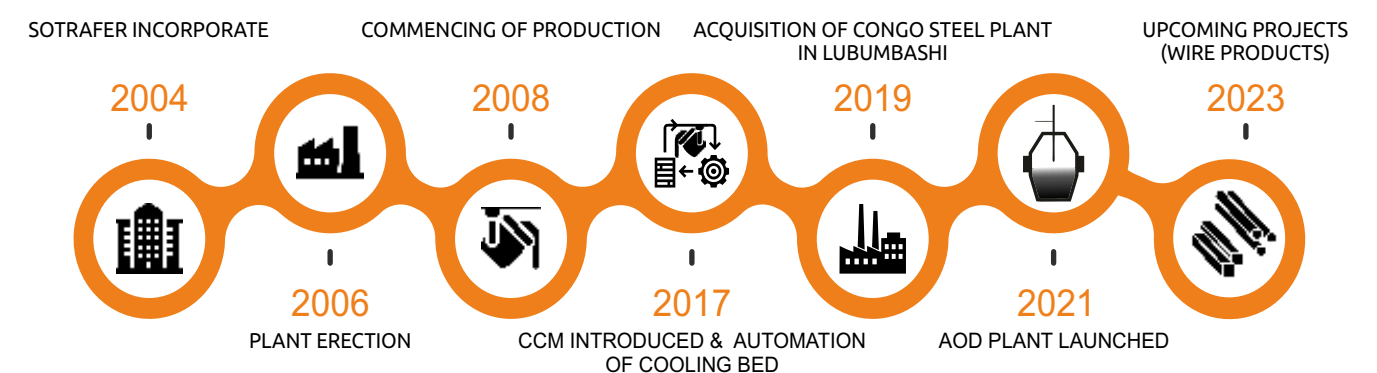
SOTRAFER has a shop floor with a wide range of high-Tech machinery and machine tools that offer precision and flexibility to optimize production yield and quality. Reducing production costs and improving product quality can improve the operational efficiency of the factory floor.

SOTRAFER has a well-equipped in-house testing laboratory to facilitate constant monitoring of material at every stage, ensuring the manufacturing quality.

Our mission is to support the long-term growth of D.R. Congo and provide solutions to the gaps in infrastructure development.

SOTRAFER has made significant investments based on the predicted growth in the region.

SOTRAFER has a clear vision for the future– To be a reliable partner in the progress of the Democratic Republic of Congo.





# SOTRAFER MISSION

“ Sotrafer has made significant investments in DR Congo based on the potential growth in the region.

Our mission is to provide infrastructure development solutions for DRC and to support the growth of the region in the long run.

To be a reliable partner in the progress of the Democratic Republic of Congo. ”



# SOTRAFER VISION

“ A consistent set of values guides our strategic vision. To be an innovative manufacturer and solution provider of the highest quality steel products.

Our goal is to be the market leader in the Steel Business. ”

# OPERATIONS

## THE TECHNOLOGY

The Melting Shop used by Sotrafer Steels for the production of standard mild steel grades is equipped with a 12-ton UHP Furnace (Electrotherm) and an AOD converter with a 15-ton capacity. The Casting process carries out through a continuous casting machine in square billet 100 mm<sup>2</sup>. The Billet is ground and inspected to eliminate all the surface defects due to casting operations. On-Line, the hot rolling process is performed in a fully automatic bar mill under **SABS Standards** consisting Re-heating furnace, roughing mill stands, intermediate mill stands, and a continuous mill capable of producing bars from 6 mm to 32 mm. Thermo-mechanical treatment (TMT) process gives the final surface aspect and mechanical characteristics to TMT Bar which ultimately, as a Produce introduced to the market as (**SOTRA TMT**).

- Induction Furnace
- Continuous Casting Machine (CCM)
- Direct Hot Rolling Mill
- TMT Process
- Automated Cooling Bed
- Automated Bundling



## PRODUCT PROCESS



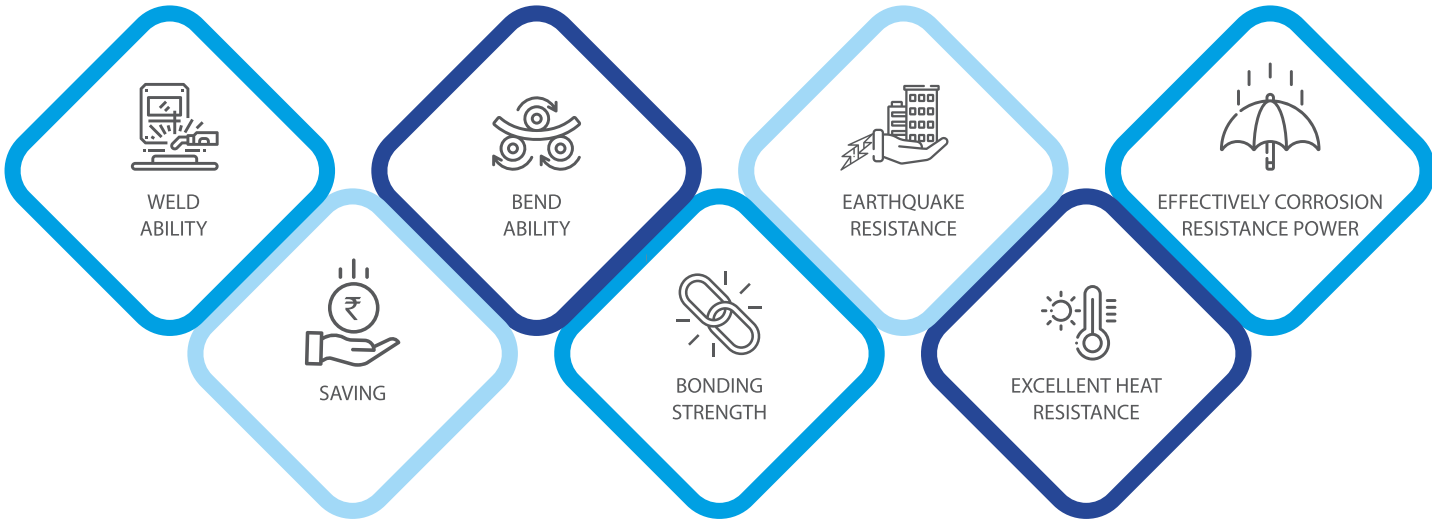
## CHEMICAL PROPERTIES

Description	Standard – ISO 9001	Standard – TMT -Sotrafer
Carbon % Max	0.30	0.25
Sulphur & Phosphorus Max	0.060	0.050
Manganese Max %	0.80	0.75
CE %	0.40	0.38
Nitrogen PPM %	-	-

## MECHANICAL PROPERTIES

Sotrafer TMT Standards	Grade Fe 415	Grade Fe 500	Grade Fe 550
Proof stress in N/mm2	425	525	570
Tensile strength in N/mm2	490	620	590
Minimum Elongation in %	17	15	10
Bend Test	4D	4D	5D

## WINNING FEATURES



## PRODUCT PROFILE

Sotrafer TMT reinforcement bars are available in the following sizes:

Nominal diameter – 6, 8, 10, 12, 16, 20, 25 and 32mm.  
Length – 6mtrs and 12mtrs.

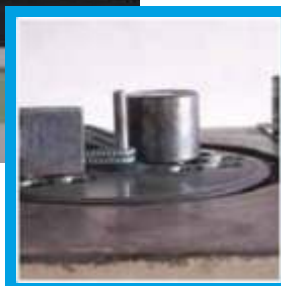
Sotrafer TMT Bars are certified with  
**SABS – (South African Bureau Standards)**



– SANS920:2011



## QUALITY ASSURANCE



## BUSINESS MARKETING STRENGTH

We strive to provide our customers with the highest level of service and customer care, by providing them with flexible sourcing, competitive pricing, on-time deliveries, and personalized solutions.

To meet the growing and diverse needs of our customers, we are constantly building our skills and knowledge.

Our mission is to maintain our reputation as a reliable, customer-oriented, dynamic supplier in the corporate chain and retail distribution segments; and to achieve profitable growth, and operational and organizational excellence without compromising our values or business ethics.

With a strong organizational structure and being an industrial model for Katanga Province, Founded in the Democratic Republic of Congo, Sotrafer SARL is committed to success.

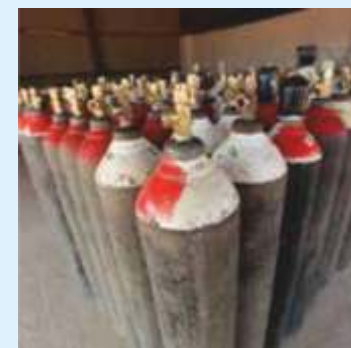
## GASES

### OXYGEN, ACETYLENE, ARGON & NITROGEN

Besides TMT Steel Bars, Sotrafer also produces Oxygen (Industrial & Medical) and Acetylene gases for industrial uses. The company offers Oxygen with a 99.9% purity and Acetylene with a 99.6% purity.

Additionally, as an industrial nitrogen gas producer, Sotrafer ensures to supply every nitrogen gas demand for diverse industrial applications, such as gas and oil inserting systems, enhanced oil recovery, offshore inserting systems, hydrogen gas purification, Inserting of Volatile Industrial Environments, Gas for Tire Inflation with the purity of 99.99 - 99.999%

We also supply Argon Gas to various vendors for applications involving Steel Making, Welding, High-Temperature Processes, preservatives, Laboratories, Insulation, etc. As specified in the certificates of conformance for each product, we supply high-quality Argon with ultra-puregrade and are completely free from extraneous contamination. Argon gas supplied for industrial purposes reaches a purity of 99.9%, while for laboratory purposes, its set at 99.999%.





# SAFETY

Excellence in safety and health supports excellent business results. Sotrafer has significantly improved the safety performance over the years ensuring safe working procedures. Nothing is more important than the safety and health of the people who work for the Company. Our safety practices include the following:

- Assigning and publishing the Company safety policy
- Conducting regular plant status review meetings
- Conducting safety training programs
- Conducting emergency safety drills
- Conducting regular safety audits



# SOCIAL RESPONSIBILITY

Sotrafer is committed to ensuring ethical business conduct and compliance with health and safety standards while meeting the best industry practices. We believe sustained and progressive improvement is the way of life. For us to compete in the dynamic world and maintain our most valuable asset and qualitative base of Human Resources, we have a global corporate plan for continuous up-gradation and development. Among our major programs are education and literacy, health and hygiene, as well as skill development programs that empower communities to take care of their immediate needs and to improve themselves and their communities in the future.

