



ISO-9001 & ISO/TS-16949 Co.
NABL Accredited
AD 2000 - Merkblatt W0 certified from TUEV Nord

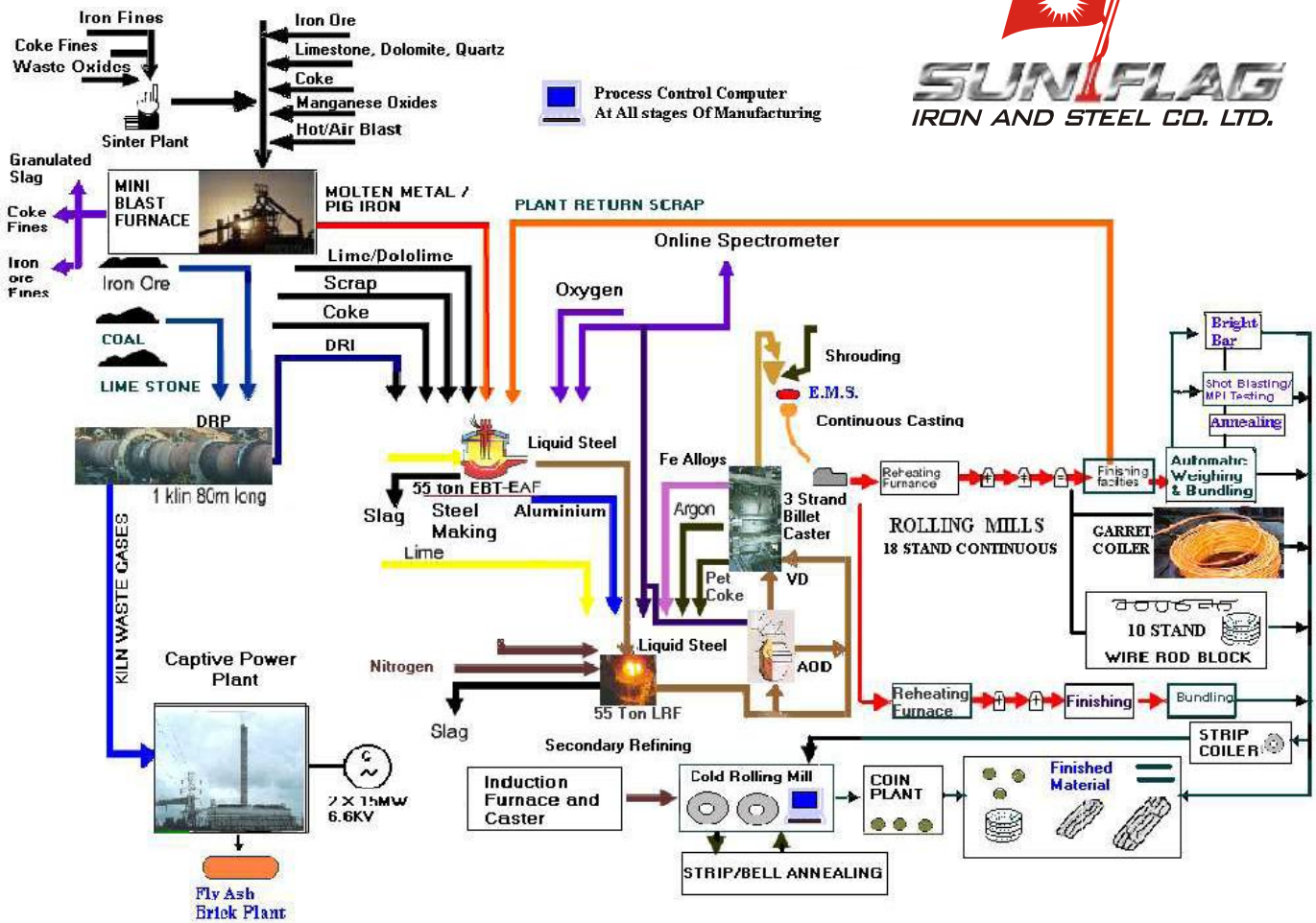
To reach unmatched quality standards, one has to go through fire.



A mission and commitment to add qualitative value for enhanced customer satisfaction has been the guiding philosophy at the Sunflag Group. Sunflag Iron & Steel Company Ltd. is the flagship company of the Sunflag Group which has a major presence in Kenya, Nigeria, Tanzania, Cameroon, Thailand, U.K, Canada & India. The well diversified group has interests in Steel, Synthetic Yarn, Fabric, Garments & Non-woven Textiles. With the setting up of the most advanced composite steel plant in the world, Sunflag has revolutionized the steel industry in India. This plant has a capacity of producing 3,50,000 tones per annum of high quality steels of a varied product mix, including a wide range of Carbon Steels, Alloy Steels, Free Cutting Steels, Spring Steels, Stainless Steels, Microalloyed Steels & Value Added Steels. Sunflag's clientele includes original equipment manufacturers in Automobiles, Railways, Defence, Forging and Bright Bar Industries. The company's products are today well accepted in the highly competitive markets of Asia, South East Asia, Far East, Africa, Europe & USA.



Process Route



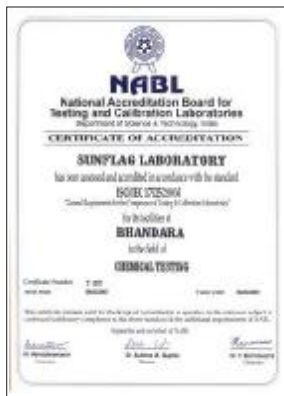
PLC : Programmable Logic Controller
 DCS : Distributed Control System
 LRF : Ladle Refining Furnace
 EMS : Electro Magnetic Stirrer

DRP : Direct Reduction Plant
 EAF : Electric Arc Furnace
 EBT : Eccentric Bottom Tapping
 VD : Vacuum Degassing
 MCC : Mill Control Computer

DRI : Direct Reduced Iron
 AOD : Argon Oxygen Decarburisation

STEEL - THE QUALITY WAY

At Sunflag, quality is a way of life. With the adoption of ISO -9000 quality standards the world over, Sunflag too with its state-of-the-art, highly automated manufacturing facility and competent manpower, has acquired the ISO-9001 & ISO/TS-16949 Accreditation. Sunflag's stringent quality control systems ensure that it's products match the exacting standards of it's customers in terms of Chemical Composition, Mechanical Properties, Grain Size, Inclusion Rating & Hardenability.



Approved by all major International OEMs

- Product acceptance by General Motors- USA, Navistar USA, NHK- Japan, Mitsubishi Steel Manufacturing Japan, ArvinMeritor USA, GKN, TRW, FORD, Daimler Chrysler, Maruti, Ashok Leyland, Tata Motors, Mico-Bosch, Force Motors, Bajaj, TVS, Hero Honda, Delphi and many others
- Interaction with NHK Steel - Japan for know-how to produce high quality steel products
- Broad range of specifications covering Carbon, Spring, Alloy, Free Cutting Steels, Micro Alloyed Steels, Stainless Steels & Value Added Steels
- Minimum quantity per size of 10 MT, flexible deliveries with rolling of all sizes in every month to meet customer requirements
- International quality available in India at very competitive prices
- NABL Accreditation for Chemical Testing & Mechanical Testing
- AD 2000-Merkblatt W0 certified from TUEV Nord



Competitive Advantage of Sunflag Products

Facilities

- 1) Own manufacturing facility for DRI & Pig Iron
- 2) 80-90% virgin material in charge mix
- 3) Excellent control of tramp elements due to own virgin Pig Iron & Sponge Iron
- 4) Controlled steel making through "Process Control Computers"
- 5) Electromagnetic stirrer in mould in continuous casting machine
- 6) 100% closed casting facility from ladle to tundish and tundish to mould
- 7) Automatic mould level controller
- 8) Computer controlled heating and furnace atmosphere in Walking Beam reheating furnace
- 9) I) R-30 Mill Control Computer
II) M.T.C Computer
III) Computer Controlled loopers in finishing stands
- 10) Cooling bed fully covered for controlled cooling of rolled product
- 11) Rake type cooling bed
- 12) Cold shear equipped with Mechanical Gauge Control
- 13) Cut length optimization through Cooling Bed Computer
- 14) A competent R & D group
- 15) ISO- 9001 & ISO/TS-16949 Accreditation
- 16) NABL Accredited Laboratory
- 17) TUEV Nord Certified Company for AD 2000-Merkblatt W0

Product Strength

Reliable and dependable supplier

Products with very low tramp elements like Cr, Cu, Ni, Bi, Sb etc. resulting into consistent response to heat treatment and consistent mechanical properties.

- i) Close Chemistry Range
- ii) Assured Quality
- i) Cleaner Steel
- ii) Enhanced mechanical properties due to controlled solidification of steel in mould.
- iii) Free from Central Segregation, Piping, Central Porosity and minimum of Columnar Structure.
- iv) Controlled Hardenability Band

Cleaner steel due to absence of re-oxidation.

Ensures high integrity of chill zone in the cast billet/bloom, assuring high degree of surface and sub surface soundness.

Minimum decarburisation in rolled product.

Assured dimensions (Grade 1 tolerance) due to tension free rolling

Controlled " As rolled hardness" and controlled grain size of rolled products.

Assured straightness of rolled products.

Fixed length products.

Minimisation of short length generation.

Continuously engaged in upgrading product quality and product development

Entire quality management is done through internationally recognized TS16949, TPM Practices & Quality Management System which ensures:

- i) Continuous Improvements
- ii) Continuous Reduction of Variations
- iii) Focus on Customer Satisfaction.

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