



A natural excellence in packaging



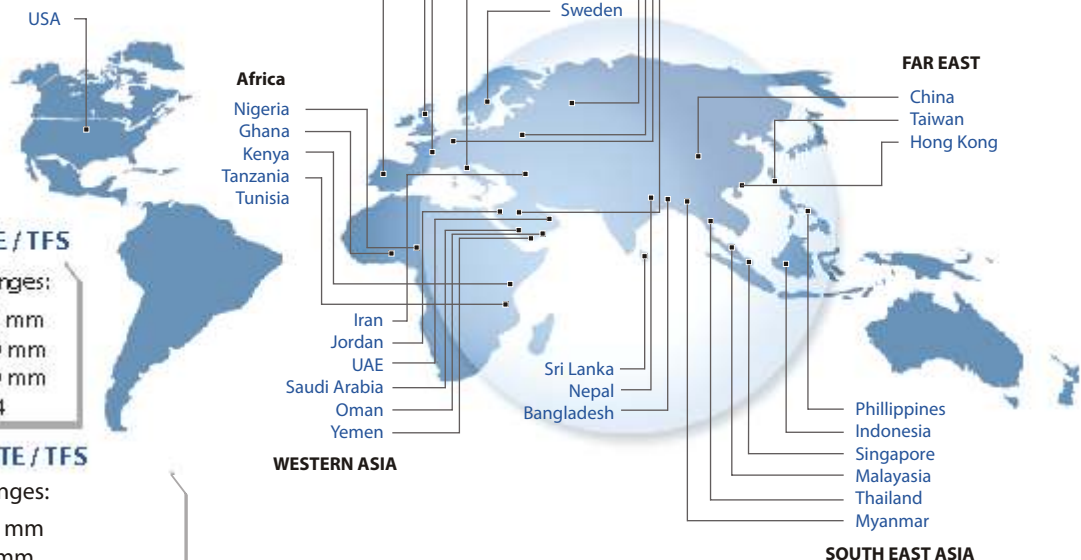
THE TINPLATE COMPANY OF INDIA LIMITED  
A **TATA** Enterprise

**TATA TINPLATE** is manufactured by **The Tinfoil Company of India Limited (TCIL)**. Incorporated in 1920, TCIL became the first Company in India to manufacture Tinplate indigenously. Today, the Company continues to uphold its leadership position in the field supplying world-class Tin Mill products to customers both in India and abroad.

TCIL is the largest producer of tinplate in India and 25% of its production is consistently exported to discerning markets worldwide for packaging of a wide variety of fresh and processed foods, beverages, confectionery, fish, dairy products, as well as, for non-food applications like paints, pesticides, lubricants, battery etc.



## INTERNATIONAL REACH



## OUR OFFERINGS

### SINGLE REDUCED (SR) TINPLATE / TFS

Tailor-made within the following ranges:

THICKNESS	0.19 mm to 0.40 mm
WIDTH	700 mm to 1020 mm
CUT LENGTH	500 mm to 1090 mm
TEMPER	T2 / T2.5 / T3 / T4

### DOUBLE REDUCED (DR) TINPLATE / TFS

Tailor-made within the following ranges:

THICKNESS	0.15 mm to 0.21 mm
WIDTH	700 mm to 900 mm
CUT LENGTH	500 mm to 1090 mm
TEMPER	DR 550 (DR 08) Hardness: 73(+/-3) DR 480 (DR 48) Hardness: 65(+/-3)

### LACQUERED & PRINTED TINPLATE

LACQUERED	All grades/coating for food & non-food applications including gold/transparent & other types of lacquers
PRINTED	All types of printing jobs for food cans, paints, pesticides & decorative cans including sizing and varnishing



## COATING GRADES

Electrolytic Tinplate from Tata Tinplate is available either equally coated or differentially coated in the following grades.

Type	Coating Code gm/m <sup>2</sup>					
Equally Coated	E 0.56/0.56	E 1.12/1.12	E 2.8/2.8	E 5.6/5.6	E 8.4/8.4	E 11.2/11.2
Differentially Coated	D 8.4/5.6	D 11.2/5.6	D 5.6/2.8	D 8.4/2.8	D 11.2/2.8	
TFS Coating	Metallic Chromium: 50 - 140 mg/m <sup>2</sup> Chromium in Oxides: 7 - 35 mg/m <sup>2</sup>					

**Tinplate is available in Stone and Silver finish.**

**Surface Oil (DOS) Level : 5-12 mg/m<sup>2</sup>**

**Passivation : 311 Treatment**

**TFS is available in Stone and Matt finish.**

**Surface Oil (DOS) Level : 5-12 mg/m<sup>2</sup>**

**Note:** Specifications of supplies as per JIS G3303SPTE, EN10202, ASTM 623M

## OUR FACILITIES

TCIL's manufacturing facilities include a **Cold Rolling Mill** complex and **two Electrolytic Tinning Lines** - based in Jamshedpur, India. The CRM Complex comprises a 6 Hi CVC Cold Rolling Mill for primary rolling, followed by a 100% High Performance Hydrogen Annealing Furnace of LOI, and 4 Hi Temper / DCR Mill and other related state of art facilities.

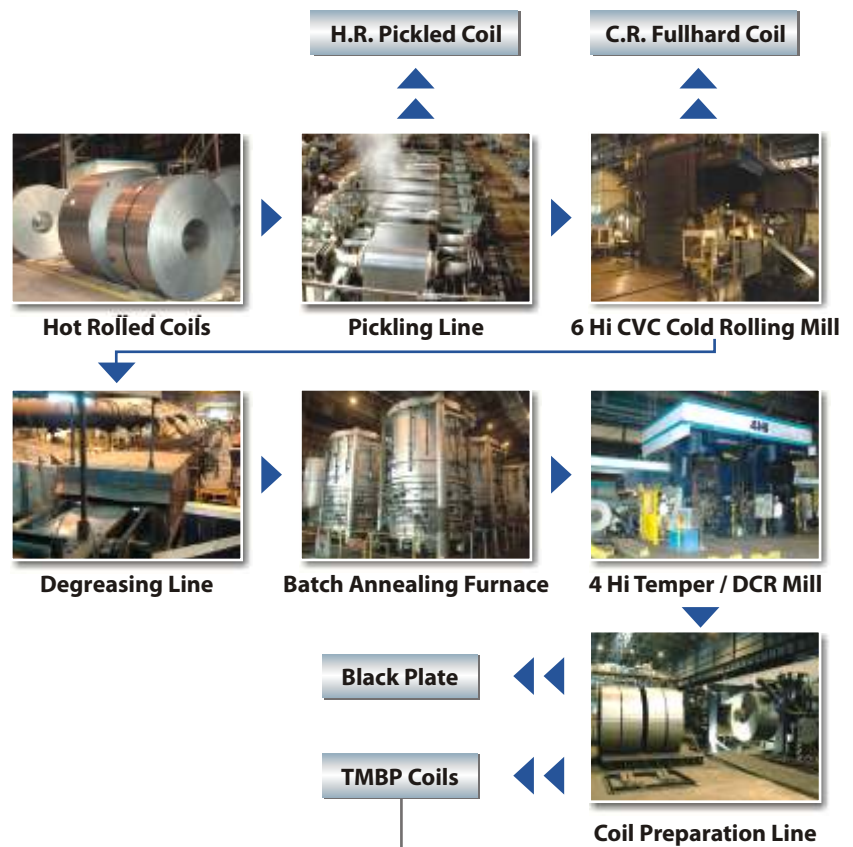
The TMBP coil produced at the CRM Complex is used as raw material for manufacturing superior quality tinplate at the Electrolytic Tinning Line of TCIL.

Very recently, TCIL has commissioned the second state of art Tinning Line with NSEC, Japan, being the technology provider. With the addition of this new Line, the Company will be able to provide ETP/ TFS in Coil form (ID 508 mm) as well as sheets in Straight Cut and Scroll Cut forms, to customers.

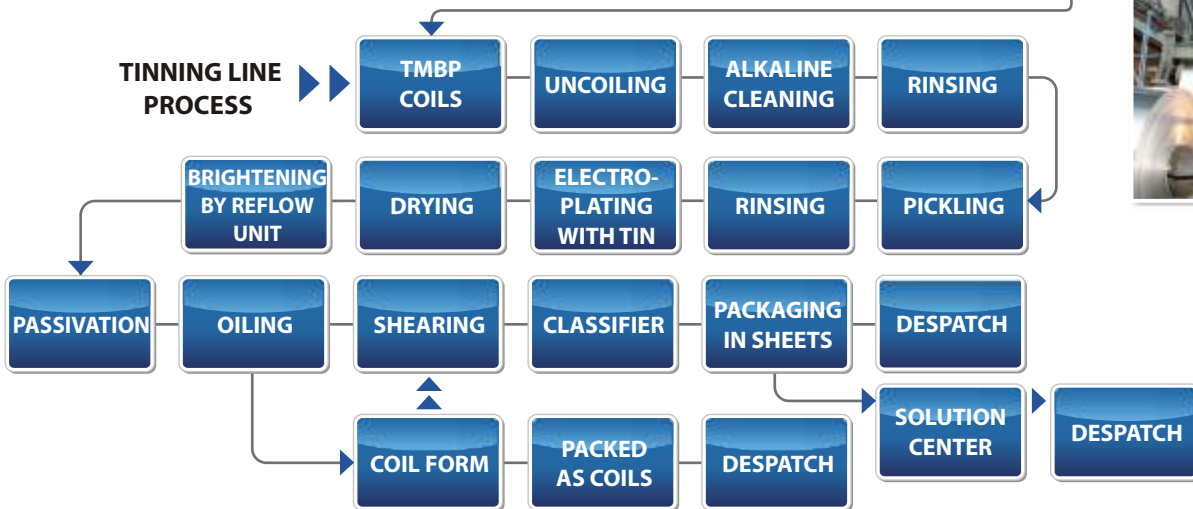
The salient feature of this new line is the 2 step Tin Free Steel manufacturing process which now enables Tata Tinplate to offer world class quality of Tin Free Steel products with coatings in excess of 100mg/m<sup>2</sup> per side, as per international standards.

To feed this 200,000 MT new facility for producing ETP/TFS, TCIL is now in the process of setting up a second CRM complex. This new facility, expected to be fully operational next year, will make Tata Tinplate fully self-sufficient with assured supplies of Hot Rolled coils from Tata Steel and complete in-house capability to produce tin mill black plate to fully utilise its enhanced capacity.

## COLD ROLLING MILL



## ELECTROLYTIC TINNING LINE



## LACQUERING & PRINTING LINE

In a continuing effort to enhance the value propositions of its products to customers, and to make TATA TINPLATE synonymous with complete solutions in tinplate packaging, TCIL has now started a Solution Centre, which includes a Lacquering and Printing Line, equipped with:

- Crabtree 122 F/FS Lacquering Line
- Crabtree Model 1200/F Inline Coater
- Crabtree 2 Colour Marquess Plus Printing Line



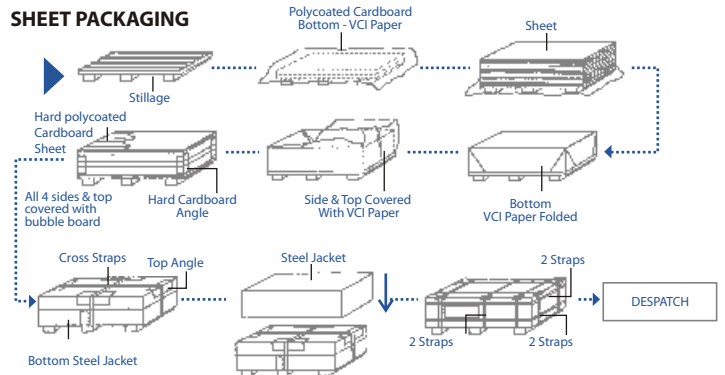
## Packaging & Logistics



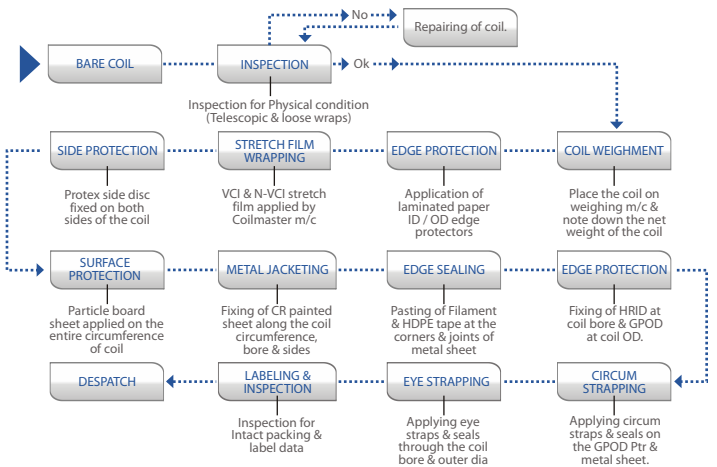
**TATA TINPLATE** is exported in sheet and coil form. These are shipped in 20 feet containers from TCIL Works and via Haldia / Kolkata port to different destinations across the globe.



### SHEET PACKAGING



### COIL PACKAGING OPERATION SEQUENCE



<b>SHIPMENT</b>	Within 45 days from opening of Letter of Credit
<b>PACKAGING</b>	Export quality, seaworthy covered in metallic envelope on Wooden skids
<b>PACKET WEIGHT</b>	Max 2 MT gross weight per skid

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