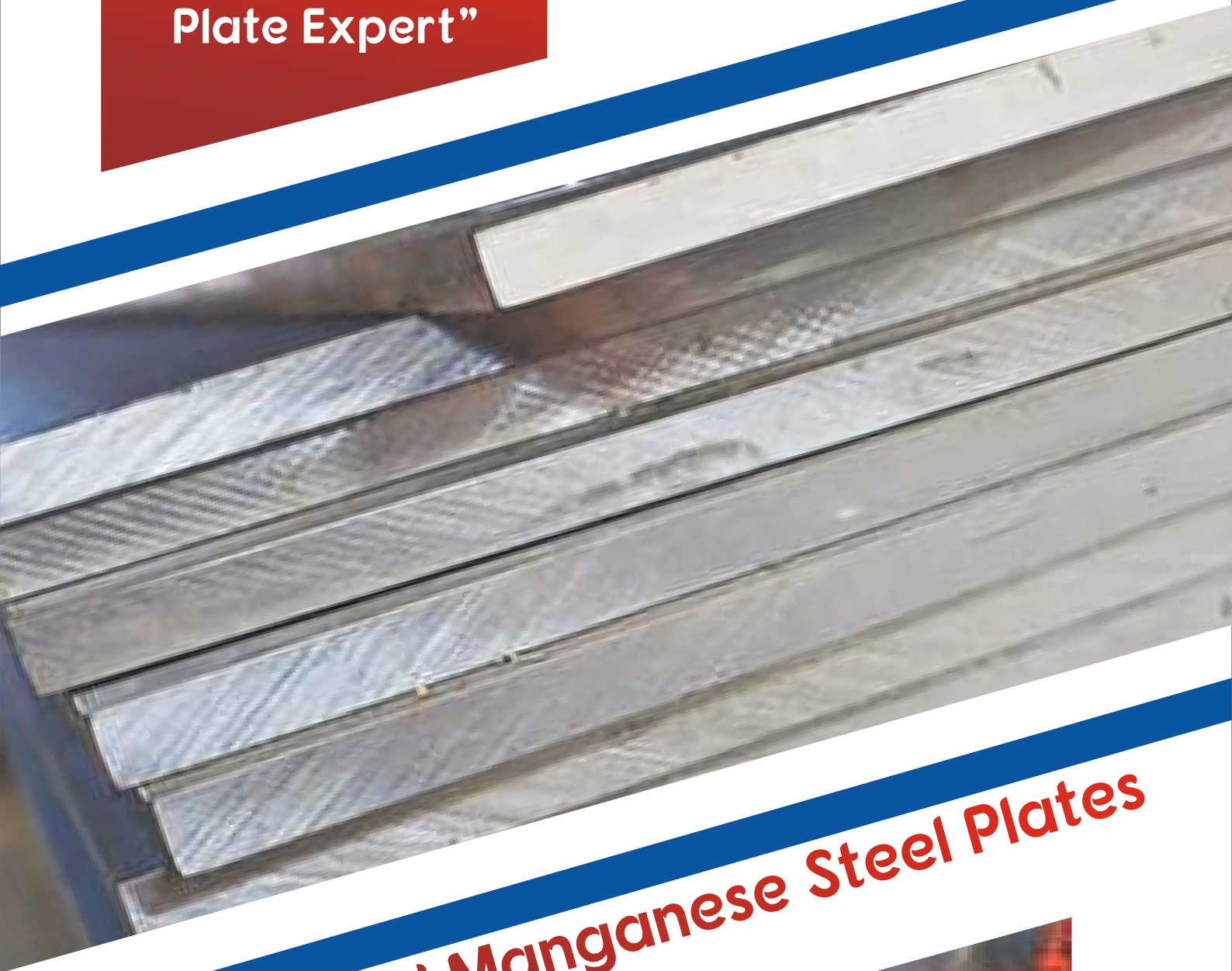


**"The Wear  
Plate Expert"**



**Hard Field Manganese Steel Plates**



Widely known for its work hardening properties, **Hardfield Manganese Steel Plates** are amenable to high-impact wear applications or those in which scratch abrasion is encountered. These hardened steel plates enhances almost five times the hardness of mild steel and almost three times the hardness of annealed stainless steel. Due to this, one can enjoy a longer lifespan and extended protection of their equipment and facilities.

## Features

- High Abrasion Resistance
- Non-Magnetic Properties
- Deep Uniform Hardness
- Provide Maximum Wear Life
- Excellent Toughness

## Application

### Used in:

- Shot Blasting machine chambers liners
- Ore, Cement, Coal Quarries and Constructions
- Mines
- Iron industry and foundry
- Concrete and Brick works
- Scraps
- Automotive Industries
- Forklifts, harvesters, bulldozers, loaders, dump trucks & mixers
- Ball mill liners, jaw crusher jaw, excavator bucket teeth, railway turnouts & track panels
- Bulletproof steel & strongbox plate
- Hopper & Chute Liners for high impact zone



## Standards

EURONORM	1.3401 ■ X120Mn13	DIN	W1.3401	INDIAN
AFNOR	X120Mn13	ASTM	A128 Gr B2	IS276-Gr1 / Gr 2

## Chemical Analysis Typical values (% weight)

C	Si	Mn	Si	P
0.90~1.30	0.10~0.50	11.00~14.00	0.10~0.50	≤ 0.35

## Mechanical Properties (At room temperature)

	Hardness HB	Tensile Strength Rm N / mm <sup>2</sup>	Yield Strenght R <sub>PO.2</sub> N / mm <sup>2</sup>	El%
Typical Values	220	380	940(136 KSI)	40
Guaranteed Values*	190~240	350 -450 (51 KSI)	820 - 960	30-60

## OUR LOCATIONS

**2500 MT  
of AR &  
HT plates.**

**1500 MT  
FABRICATION  
PER ANNUM**



**GLOBALLY  
900 +  
CUSTOMERS**

**DECADES OF  
EXPERIENCE.**



### CORPORATE OFFICE:

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