

Hi-TECH

CRASH BARRIER



NHAI APPROVED

Hi-TECH
CRASHGUARD™
METAL BEAM CRASH BARRIER



**INDIA'S NO.1 MANUFACTURER
OF METAL CRASH BARRIER**

Hi-TECH
STEEL PIPES

Hi-TECH

CRASH BARRIER

NATIONAL AUTOMOTIVE TEST TRACKS				
TEST REPORT				
ULR No.: TC1060922000000006F				
Customer Request Number: NTX/CRN/2022-2023/06/0006				
Test Report No and Date: NTX/CBT/2022-2023/006 dated 05 August 2022				
Customer Details: M/s HI TECH PIPES LIMITED.				
Customer Address: Plot No 10, Sikandrabad Industrial Area (U.P.) -, 203205				
Test Material Reference:		Thrie Beam Metal Crash Barrier Material Grade E 350A:IS2062		
		Test method followed: EN 1317-1:2010 EN 1317-2:2010		
		Date of Receipt: 30 June 2022		
		Date of Testing: 27 July 2022		
		Date of Report: 05 August 2022		
Test Conditions : Annexed.				
TEST REPORT				
SR. NO.	PARTICULAR	DESCRIPTION OF TESTING	REQUIREMENTS AS PER SPEC	TEST RESULTS / OBSERVATIONS
1	Thrie-beam Metal Crash Barrier	TB-11. Crash Barrier Test as per Standard.	a) Target impact speed. (+7% , -0%) b) Target impact angle. (+1.5° , -1°) c) Target test weight of the vehicle. (±40 kg)	Report annexed.
Remarks: Test was successfully conducted as per EN1317-1 & 2 and Test Results were found Satisfactory.				
Prepared by		Verified by	Approved by	
Note: • The test report and result relate to the particular item(s) of the material as delivered /received and tested in the laboratory. • This test report shall not be reproduced in any part or whole, without the permission of this Laboratory. • Any correction invalidates this test report's.				

NATIONAL AUTOMOTIVE TEST TRACKS				
TEST REPORT				
ULR No.: TC1060922000000002F				
Customer Request Number: NTX/CRN/2022-2023/06/0002				
Test Report No and Date: NTX/CBT/2022-2023/002 dated 14 July 2022				
Customer Details: M/s HI TECH PIPES LIMITED.				
Customer Address: Plot No 10, Sikandrabad Industrial Area (U.P.) -, 203205				
Test Material Reference:		Thrie Beam Metal Crash Barrier Material Grade E 350A:IS2062		
		Test method followed: EN 1317-1:2010 EN 1317-2:2010		
		Date of Receipt: 15 June 2022		
		Date of Testing: 24 June 2022		
		Date of Report: 14 July 2022		
Test Conditions : Annexed.				
TEST REPORT				
SR. NO.	PARTICULAR	DESCRIPTION OF TESTING	REQUIREMENTS AS PER SPEC	TEST RESULTS / OBSERVATIONS
1	Thrie-beam Metal Crash Barrier	TB-51. Crash Barrier Test as per Standard.	a) Target impact speed. (+7% , -0%) b) Target impact angle. (+1.5° , -1°) c) Target test weight of the vehicle. (±400 kg)	Report annexed.
Remarks: Test was successfully conducted as per EN1317-1 & 2 and Test Results were found Satisfactory.				
Prepared by		Verified by	Approved by	
Note: • The test report and result relate to the particular item(s) of the material as delivered /received and tested in the laboratory. • This test report shall not be reproduced in any part or whole, without the permission of this Laboratory. • Any correction invalidates this test report's.				

NATIONAL AUTOMOTIVE TEST TRACKS				
TEST REPORT				
ULR No.: TC1060922000000005F				
Customer Request Number: NTX/CRN/2022-2023/06/0005				
Test Report No and Date: NTX/CBT/2022-2023/005 dated 01 August 2022				
Customer Details: M/s HI TECH PIPES LIMITED.				
Customer Address: Plot No 10, Sikandrabad Industrial Area (U.P.) -, 203205				
Test Material Reference:		W Beam Metal Crash Barrier Material Grade E 350A:IS2062		
		Test method followed: EN 1317-1:2010 EN 1317-2:2010		
		Date of Receipt: 15 June 2022		
		Date of Testing: 04 July 2022		
		Date of Report: 01 August 2022		
Test Conditions : Annexed.				
TEST REPORT				
SR. NO.	PARTICULAR	DESCRIPTION OF TESTING	REQUIREMENTS AS PER SPEC	TEST RESULTS / OBSERVATIONS
1	W-beam Metal Crash Barrier	TB-11. Crash Barrier Test as per Standard.	a) Target impact speed. (+7% , -0%) b) Target impact angle. (+1.5° , -1°) c) Target test weight of the vehicle. (±40 kg)	Report annexed.
Remarks: Test was successfully conducted as per EN1317-1 & 2 and Test Results were found Satisfactory.				
Prepared by		Verified by	Approved by	
Note: • The test report and result relate to the particular item(s) of the material as delivered /received and tested in the laboratory. • This test report shall not be reproduced in any part or whole, without the permission of this Laboratory. • Any correction invalidates this test report's.				

NATIONAL AUTOMOTIVE TEST TRACKS				
TEST REPORT				
ULR No.: TC1060922000000003F				
Customer Request Number: NTX/CRN/2022-2023/06/0003				
Test Report No and Date: NTX/CBT/2022-2023/003 dated 14 July 2022				
Customer Details: M/s HI TECH PIPES LIMITED.				
Customer Address: Plot No 10, Sikandrabad Industrial Area (U.P.) -, 203205				
Test Material Reference:		W Beam Metal Crash Barrier Material Grade E 350A:IS2062		
		Test method followed: EN 1317-1:2010 EN 1317-2:2010		
		Date of Receipt: 15 June 2022		
		Date of Testing: 27 June 2022		
		Date of Report: 14 July 2022		
Test Conditions : Annexed.				
TEST REPORT				
SR. NO.	PARTICULAR	DESCRIPTION OF TESTING	REQUIREMENTS AS PER SPEC	TEST RESULTS / OBSERVATIONS
1	W-beam Metal Crash Barrier	TB-42. Crash Barrier Test as per Standard.	a) Target impact speed. (+7% , -0%) b) Target impact angle. (+1.5° , -1°) c) Target test weight of the vehicle. (±300 kg)	Report annexed.
Remarks: Test was successfully conducted as per EN1317-1 & 2 and Test Results were found Satisfactory.				
Prepared by		Verified by	Approved by	
Note: • The test report and result relate to the particular item(s) of the material as delivered /received and tested in the laboratory. • This test report shall not be reproduced in any part or whole, without the permission of this Laboratory. • Any correction invalidates this test report's.				

CRASH TEST REPORT CERTIFICATES

Company Profile

Hi-Tech Pipes Ltd is one the largest company in the segment with the widest range of products, instrumental in laying a sound infrastructure for the development of the Nation. Hi-Tech has been in existence for over three decades rolling out the best of the steel pipes and its allied products. These certified products have touched the lives of millions of people in myriad ways. Our products are used in multiple sectors including Infrastructure, Constructions, Automobiles, Energy, Agriculture, Defence, Engineering & Telecom.

We have a proud workforce of 1100+ employees to deliver the products on time. \$300 Million Sales Turnover. Hi-Tech pipes has set up business facilities in various verticals such as Cold Rolled Coils & Strips, MS Steel Pipes, GI & GP Steel Pipes and Metal Beam Crash Guard. From ships to shops, from homes to offices & from agriculture to industries we are everywhere.

Building the Nation. Making in India.



Our Journey

1980-96

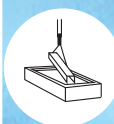


Commenced manufacturing MS pipes at Sikandrabad unit-1



Started manufacturing cold rolled coils and strips

2001-10



Installation of hot-dipped galvanizing facility



Commenced production of highway crash barriers



Began production of hollow sections and solar mounting sections

2012-16



Commenced commercial operations of unit 2 at Sikandrabad to manufacture steel tubes and hollow sections



Started commercial production of steel tubes and hollow sections at the Sanand (Gujarat) unit

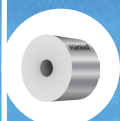


Listed on the NSE-SME

2017-18



Commenced operations at Hindupur (Andhra Pradesh)



Modernized the cold rolling plant at Sikandrabad unit

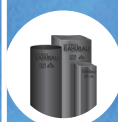


Commissioned ERW pipes at Hindupur unit



The third company to migrate to NSE Main Board in May 2018

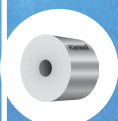
2018-20



Started tube mill at Sanand



Installed solar plants at Sanand and Hindupur units



Started Colled Rolling expansion project for wider product of HRoP, CRCA, CRFH, GPGC

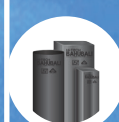


Received Secondary Steel Sector award from Ministry of Steel

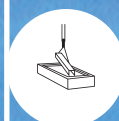
Received Top Performer award from SAIL

Received Ispat Rachna Award from Ministry of Steel, Govt. of India

2020-22



Commenced operations at Khopoli (Maharashtra)



Started Continuous Galvanizing Line at Sikanderabad



Listed on BSE

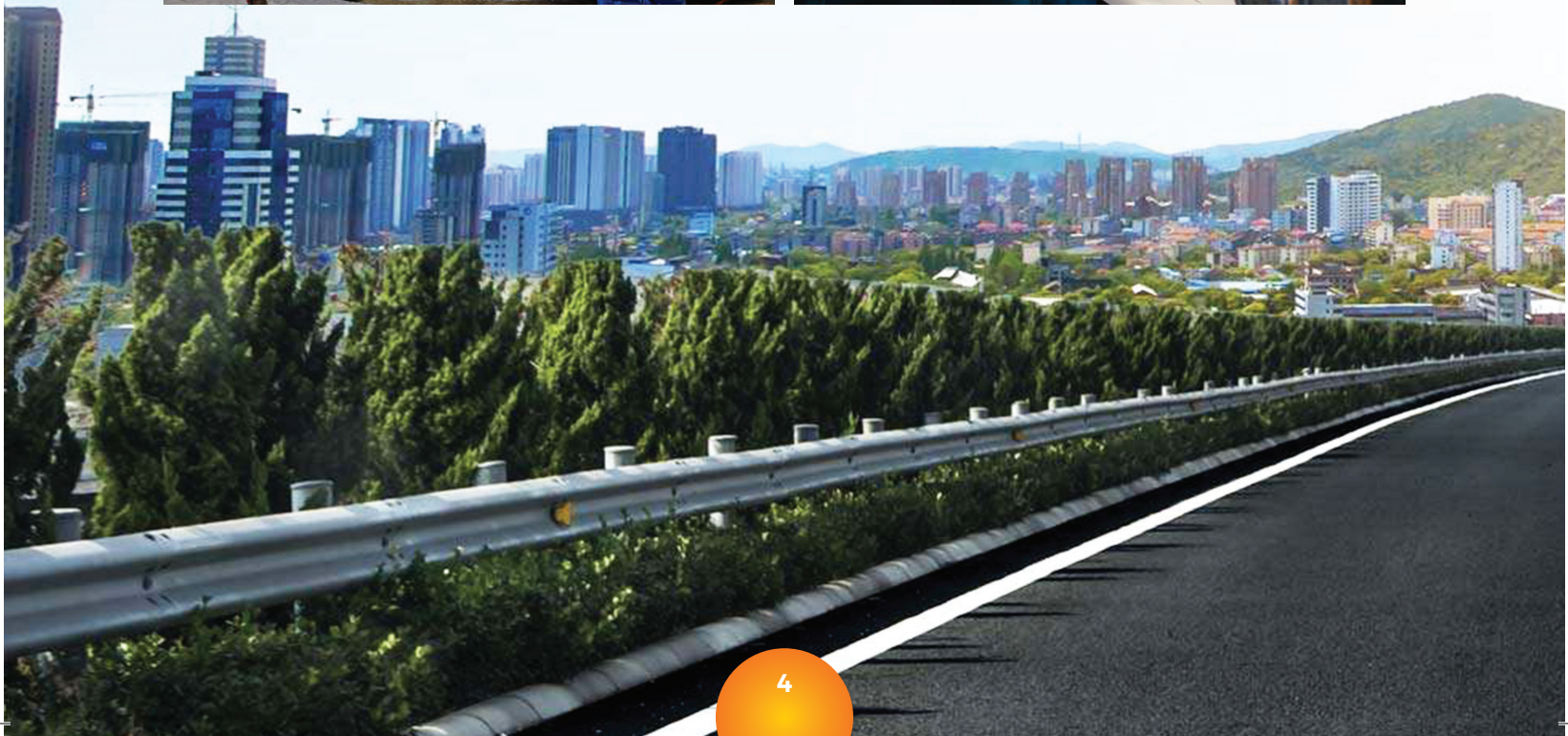


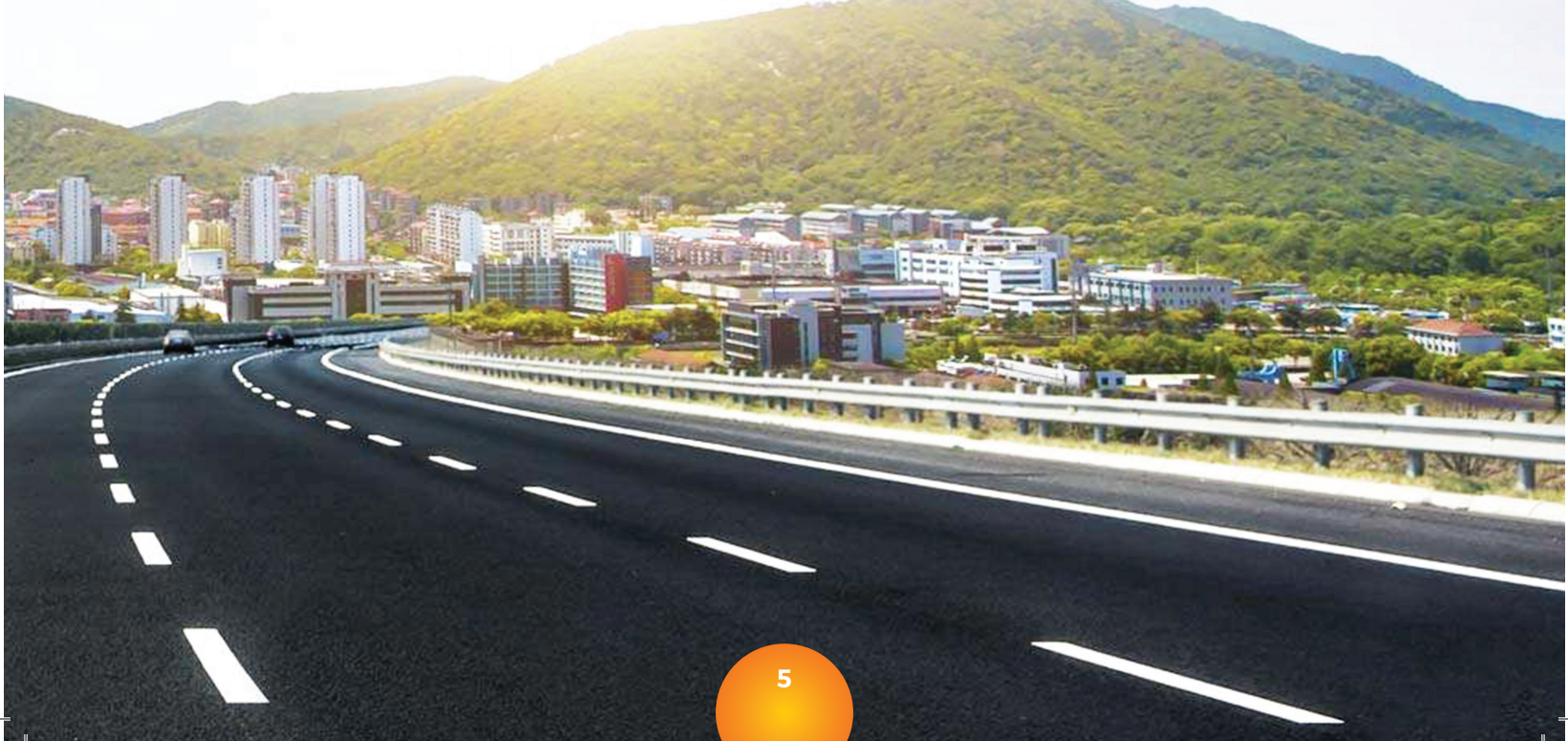
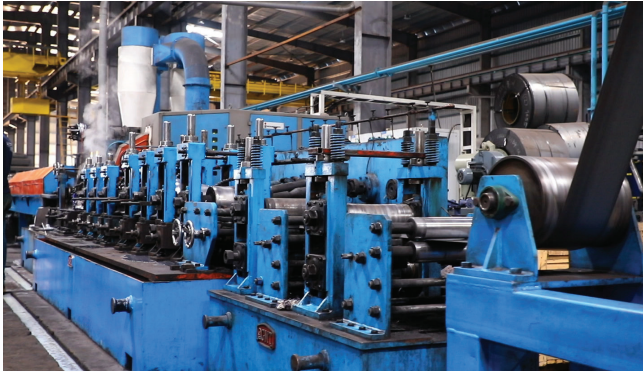
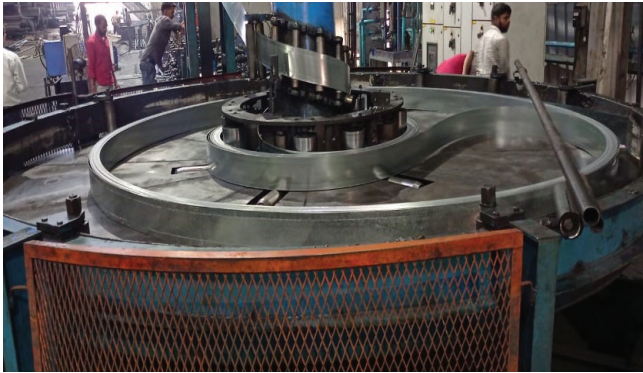
Started Manufacturing of PPGI, Color Coated Coils



Launched Crash Tested Crash Barriers

New state-of-the-art Manufacturing facility of Metal Beam Crash Barrier in Uttar Pradesh & Andhra Pradesh





W-Beam type Crash Barrier

Hi-Tech Crashguard W Beam Conforming of all standards & specifications prevailing in the Road infrastructure segment. Hi-Tech Crashguard W beam (w profiled) single side single beam of 3 mm/2.5 mm section is having width of 312 mm and depth of corrugation as 83 mm, hot dip galvanised of zinc coating® 550 g/sqm as per MORTH/European/American specification.

**Effective for
small,
midsize &
large cars.**

**Cold roll
formed
sections
manufactured in
accordance with
IRC 119-2015
and MORTH.**

**It is best
suitable for
roads where major
traffic is small
vehicles**

**Crash
Tested in
accordance
with EN 1317
Part-1&2 for High
Containment
Zone HI
category**



Specification of Crash Tested & Conventional

W-BEAM

- ◆ Cold roll formed section
- ◆ High Strength steel conforming to IS5986/2062/E350 or equivalent.

Hot dip galvanised - 550 gms/m² conforming to MORTH (Ministry of Road Transport & Highways) and IS.

POST/SPACER

- ◆ Cold Roll formed sheet
- ◆ Section C channel & lip channel type
- ◆ High Strength Steel Conforming to IS5986/2062/E350 or equivalent.

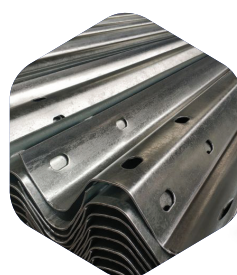
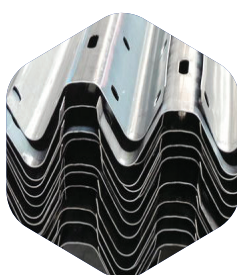
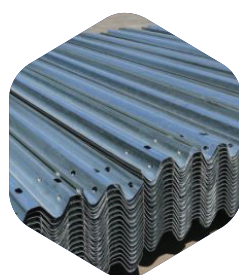
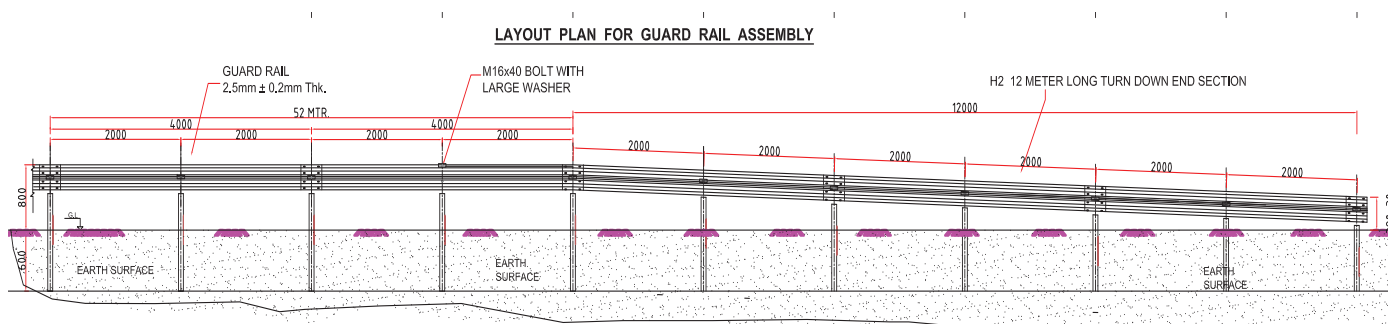
Hot dip galvanised 550gms/m² conforming to MORTH (Ministry of Road Transport & Highways).

END SECTION

- ◆ Anglised, Fish Tail or Tubular end terminals

FASTENERS

Hot dip galvanized or electro galvanised bolts, nuts and washers, conforming to IS 1364 and IS 1367 of grade 4.8/8.8 MS. 16mm dia Button head bolts for W-beam to W-beam to spacer connection. 16mm dia Hexagonal head type bolts for spacer or post connection.



Thrie Beam

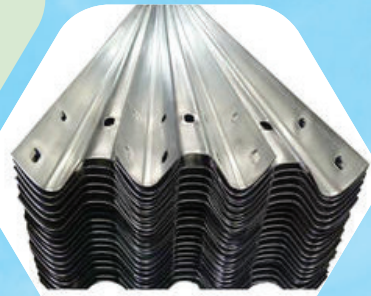
Hi-Tech Crashguard Thrie beam Conforming of all standards & specifications prevailing in the Road infrastructure segment. Hi-Tech Crashguard Thrie beam (T-profiled) single side single beam of 3 mm/2.5 mm section is having width of 505 mm and depth of corrugation as 83 mm, hot dip galvanised of zinc coating@ 550 g/sqm, as per MORTH/European/American specification.

Crash Tested in accordance with EN 1317 (1&2) for High Containment Zone H2 category

Thrie beam barriers have extra height of rail face which increase their performance for large vehicles.

Trucks and similar heavy vehicles were the motivation for introduction of Thrie Beam Barriers.

In comparison to W-beam crash barriers, these barriers have longer posts and spacers.



Specification of Crash Tested & Conventional

Thrie-BEAM

- ◆ Cold roll formed section
- ◆ Strength Steel conforming to IS5986/2062/E350 or equivalent.

Hot dip galvanised - 550 gms/m² conforming to MORTH (Ministry of Road Transport & Highways) and IS.

POST/SPACER

- ◆ Cold Roll formed sheet
- ◆ Section C channel & lip channel type
- ◆ Strength Steel conforming to IS5986/2062/E350 or equivalent.

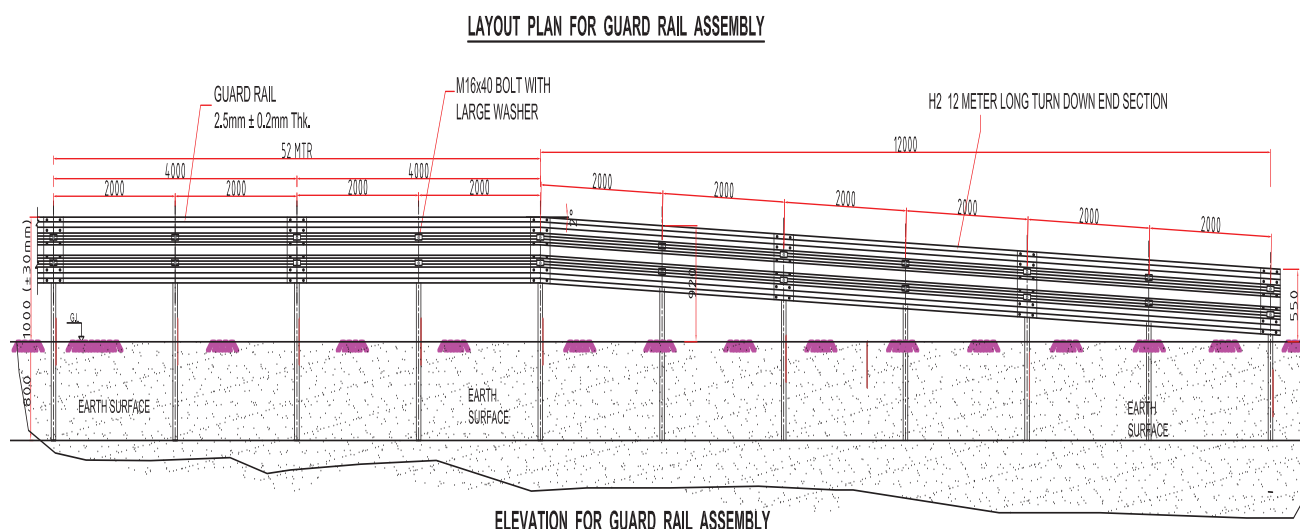
Hot dip galvanised 550gms/m² conforming to MORT&H (Ministry of Road Transport & Highways).

END SECTION

- ◆ Anglised, Fish Tail or Tubular end terminals

FASTENERS

Hot dip galvanized or electro galvanised bolts, nuts and washers, conforming to IS 1364 and IS 1367 of grade 4.8/8.8 MS. 16mm dia Button head bolts for Thrie-beam to W-beam to spacer connection. 16mm dia Hexagonal head type bolts for spacer or post connection.



Testing Facilities



Cupping Test



Tensile Test



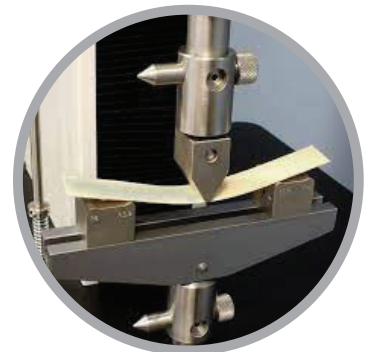
Thickness Tolerance Test



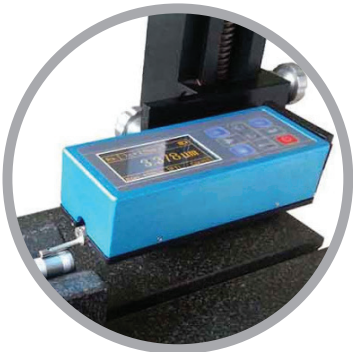
Universal Tester for Elongation



Spectrometer



Bend Test



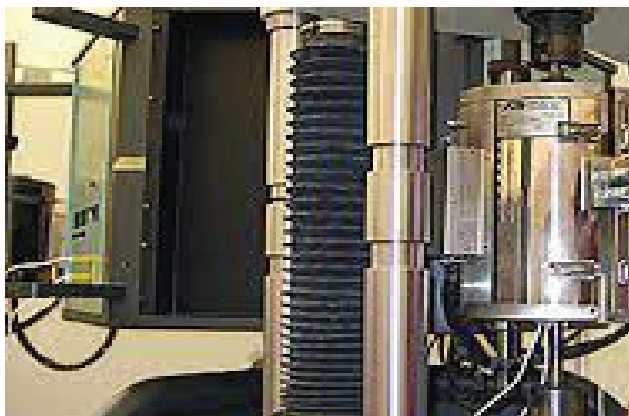
Roughness Test



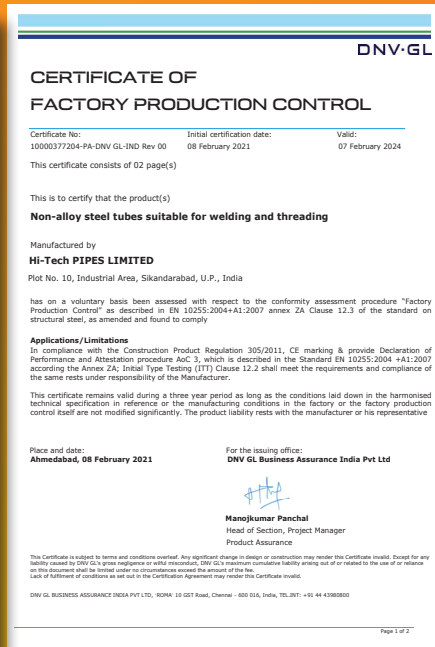
Mopping test



Hardness Tester



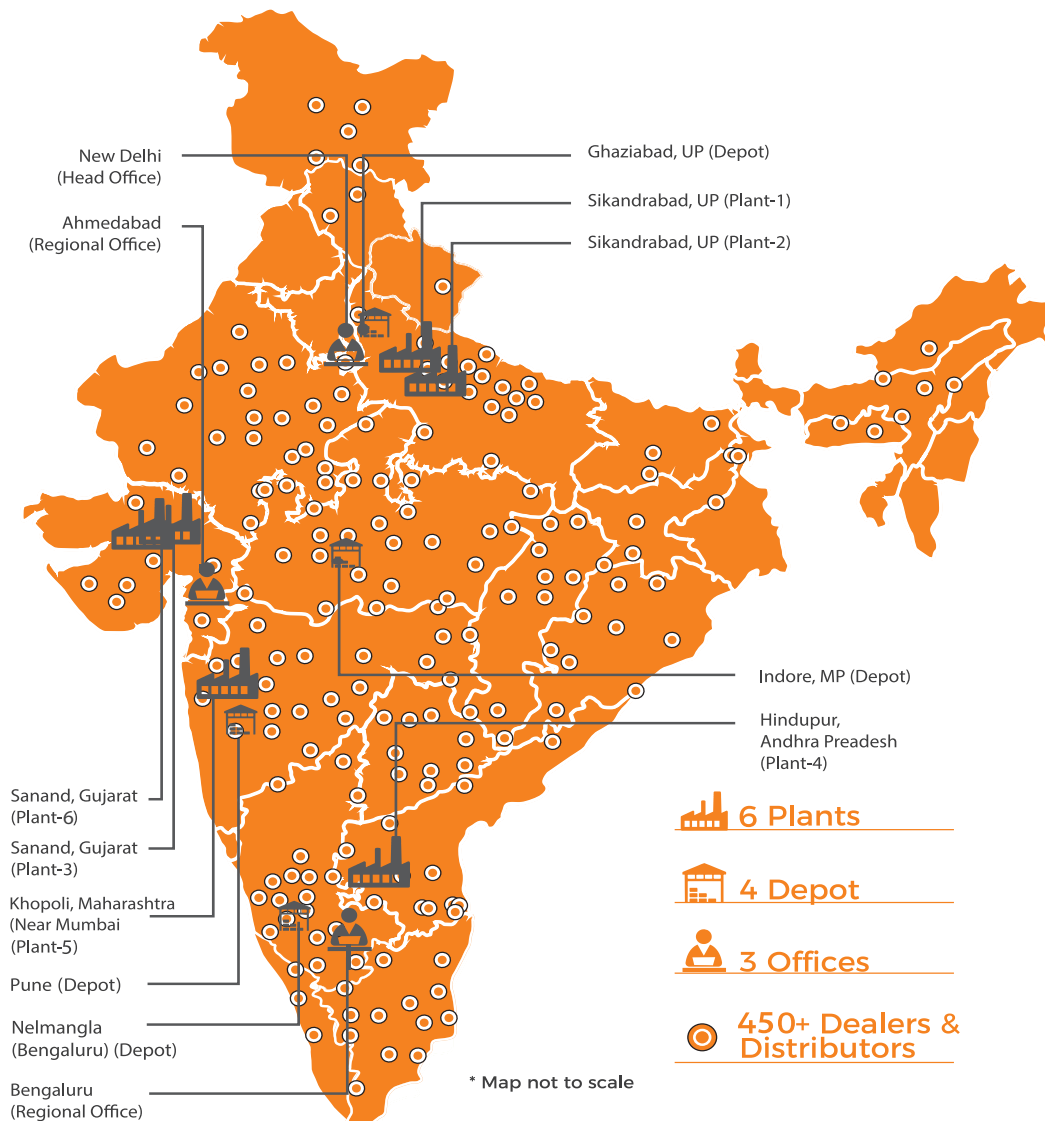
Certifications



Hi-Tech Crashguard Testing

Our Presence

With an installed capacity of 6,40,000 metric tonnes and positioned amongst the top 5 pipe manufacturing companies in India, the Company's products are available across 17 states through its wide network of 450+ dealers, 150 OEM partners, more than 1200+ SKUs and more than 90 contractors across the country.



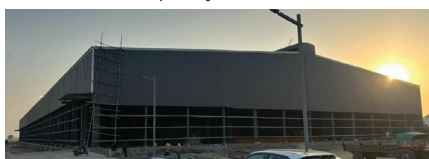
Sikandrabad, Uttar Pradesh (Unit-1)
Installed capacity of 2,19,000 MTPA



Sikandrabad, Uttar Pradesh (Unit-2)
Installed capacity of 36,000 MTPA



Sanand, Gujarat
Installed capacity of 1,25,000 MTPA



Sanand, Phase-II, Gujarat
Installed capacity of 60,000 MTPA



Hindupur, Andhra Pradesh
Installed capacity of 1,20,000 MTPA



Khopoli, Maharashtra
Installed capacity of 80,000 MTPA

Our application based product portfolio



Product: GI Pipes
Application: Borewell, Water, Agriculture



Product: MS & GI Pipes
Application: Fire Safty - Buildings



Product: MS & GI Casing Pipes
Application: Borewell



Product: MS Hollow Section
Application: Construction Industries



Product: GI Pipes
Application: Polyhouses, Agriculture



Product: Hollow Section
Application: Commercial Buildings



Product: Large Dia Hollow Section
Application: Infra, Airport, Metro Station



Product: CRCA Coils & Strips
Application: Automobile, White Goods



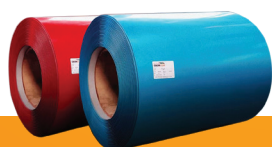
Product: GI Pipes
Application: India Coastal & related



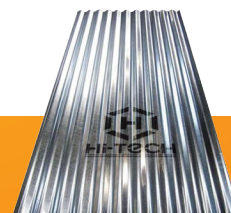
Product: Metal Beam Crash Barrier
Application: Road & Railway Safety



Product : Color Roofing Sheet
Application : Garden Building, Construction & Backyard



Product : Roofing Sheet
Application : Industrial Roof, Household Roof Tops, Garages





HI-TECH PIPES LIMITED

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www.hitechpipes.in

Works:

Sikanderabad, U.P.
Sanand, Gujarat (Near Ahmedabad)
Hindupur, Andhra Pradesh (Near Bengaluru)
Khopoli, Maharashtra