

HIWAY ROAD TECH PRESENTS

# TRAFFIC SAFETY SOLUTIONS

Premium thermoplastic compounds, traffic signages & solar safety devices — engineered for Indian roads, IRC & ASTM compliant.



OUR PRODUCT RANGE

HIWAYMARK ECO

HIWAYMARK STANDARD

HIWAYMARK PRO

HIWAYMARK PRO+

SOLAR BLINKERS

TRAFFIC SIGNAGES

GANTRY & CANTILEVER

3M TRAFFIC SAFETY PRODUCTS

## WHO WE ARE

## BUILT FOR SAFER ROADS. TRUSTED ACROSS INDIA.

Hiway Road Tech is a premier manufacturer and supplier of thermoplastic road marking materials, traffic signages, and solar safety products. We serve National Highway Authorities, State PWDs, municipal corporations, and infrastructure contractors across India.

With deep expertise in road safety materials, our formulations are tested and proven on highways, urban roads, airports, and industrial zones – delivering durability, high visibility, and full standards compliance.

**15+**

Years of Experience

**500+**

Projects Completed

**Pan India**

Served

**IRC**

Certified Range

## OUR MISSION

"To engineer road marking solutions that enhance visibility, safety, and durability on every kilometre of Indian road – protecting lives through materials that perform reliably in all conditions."

## STANDARDS &amp; COMPLIANCE

IRC : 35

ASTM D6628

BIS IS : 5203

ISO 9001 : 2015

MoRTH Compliant

ASTM D4956

COMPLETE SOLUTIONS

# SEVEN PRODUCTS. ONE MISSION. SAFER ROADS.



ECO

## HIWAYMARK ECO

Recycled-content thermoplastic. IRC & ASTM compliant.

See page 4 →



STANDARD

## HIWAYMARK STANDARD

Reliable thermoplastic for highways & urban roads.

See page 5 →



PRO

## HIWAYMARK PRO

Ultra-high retroreflectivity for expressways & airports.

See page 6 →



PRO+

## HIWAYMARK PRO+

MoRTH spec compound for NHAI & government tenders.

See page 7 →



SIGNAGE

## TRAFFIC SIGNAGES

Retro-reflective road signs. ASTM D4956 compliant.

See page 8 →



SOLAR

## SOLAR BLINKERS

Solar LED blinkers. IP68, visible 800m.

See page 9 →



3M

## 3M ROAD SAFETY PRODUCTS

RPMs, Median Markers, Delineators, VMS, Reflective Sheetings & Conspicuity Tape — authorized distributor.

See page 10 →

## THERMOPLASTIC ROAD MARKING

# HIWAYMARK ECO

SUSTAINABLE · ECO-CERTIFIED

Hiwaymark Eco is our environmentally responsible thermoplastic compound formulated with up to 30% recycled content. It delivers excellent performance while supporting green infrastructure goals – without compromising on compliance or longevity.

## KEY FEATURES

- Up to 30% recycled thermoplastic content – reduced carbon footprint
- Retroreflectivity  $\geq 150$  mcd/m<sup>2</sup>/lux with recycled glass beads
- Application temperature: 180–200°C; thickness 2.0–3.0mm
- Compliant with IRC:35, ASTM D6628 & BIS IS:5203
- UV resistant formulation; fast-set in 10–15 minutes
- Available in white, yellow and custom specification colors



## BEST SUITED FOR

State highways, urban roads, GRIHA / LEED projects, eco-certified infrastructure contracts



## ECO-CERTIFIED FORMULATION

Recycled Content · Reduced Emissions

## TECHNICAL SPECIFICATIONS

 **$\geq 150$** 

mcd/m<sup>2</sup>/lux  
Retroreflectivity

**2–3 mm**

Application  
Thickness

**180–200°C**

Application  
Temperature

**30%**

Recycled  
Content

**3+ Yrs**

Typical Road  
Durability

## THERMOPLASTIC ROAD MARKING

# HIWAYMARK STANDARD

RELIABLE · DURABLE · COST-EFFECTIVE

Hiwaymark Standard is our workhorse thermoplastic compound – trusted by contractors and highway authorities nationwide. Proven performance across India's diverse road conditions with consistent quality batch after batch.

## KEY FEATURES

- Retroreflectivity  $\geq 200$  mcd/m<sup>2</sup>/lux – superior night visibility
- Increased glass bead content for enhanced wet-weather reflectivity
- Application temperature: 170-190°C; MSLT: 2.5-3.5mm
- Excellent adhesion on bituminous and cement concrete surfaces
- IRC:35, ASTM D6628 & BIS IS:5203 fully compliant
- Fast set: 10-12 minutes; white & yellow standard colors
- High resistance to fuel, oil spills and temperature extremes



## BEST SUITED FOR

National highways, state roads, urban arterials, PWD projects, lane markings & pedestrian crossings



## MORTH APPROVED GRADE

IRC Compliant · Pan-India Proven

## TECHNICAL SPECIFICATIONS

 **$\geq 200$** 

mcd/m<sup>2</sup>/lux  
Retroreflectivity

**2.5-3.5mm**

Application  
Thickness

**180-210°C**

Application  
Temperature

**35%**

Glass Bead  
Content

**4+ Yrs**

Typical Road  
Durability

PREMIUM THERMOPLASTIC ROAD MARKING

# HIWAYMARK PRO

ULTRA-HIGH PERFORMANCE · AIRPORT GRADE

Hiwaymark Pro is our premium-grade thermoplastic formulation engineered for the most demanding road environments. With ultra-high retroreflectivity, anti-skid properties, and extended durability, it sets the benchmark for expressways, airports, and critical junctions.

## KEY FEATURES

- Retroreflectivity  $\geq 350$  mcd/m<sup>2</sup>/lux — highest-grade visibility
- high-index glass beads for all-weather retroreflection
- Built-in anti-skid profile; skid resistance SRT  $\geq 55$
- Application temperature: 170–190°C; MSLT: 3.0–4.5mm
- Compliant IRC:35, ASTM D6628, ASTM E1349 & BIS IS:5203
- Modified hydrocarbon resin base for superior adhesion & flexibility
- 5+ year durability on high-traffic expressways and runways



## BEST SUITED FOR

Expressways, airport runways & taxiways, toll plazas, critical junctions, high-speed corridors


**PREMIUM GRADE · AIRPORT APPROVED**

Anti-Skid · Ultra Reflective · 5+ Year Life

## TECHNICAL SPECIFICATIONS

 **$\geq 350$** 

mcd/m<sup>2</sup>/lux  
Retroreflectivity

**3–4.5mm**

Application  
Thickness

 **$\geq 55$  SRT**

Skid Resistance  
Value

**40%**

High-Index Bead  
Content

**5+ Yrs**

Typical Road  
Durability

**MORTH SPECIFICATION COMPOUND**

# HIWAYMARK PRO+

**GOVT SPEC · NHAI READY · TENDER COMPLIANT**

Hiwaymark MoRTH is our government-specification thermoplastic compound formulated to fully comply with Ministry of Road Transport & Highways (MoRTH/MOST) standards. Designed for NHAI, PMGSY, and PWD tenders requiring strict MoRTH documentation and test compliance.

**KEY FEATURES**

- Meets MoRTH Section 800, Item 803 specification fully
- Softening point: min 102.5°C (Ring & Ball, IS:1517)
- Specific gravity: 1.9-2.1 (IS:1520); glass bead content 35-40%
- Retroreflectivity  $\geq 200$  mcd/m<sup>2</sup>/lux initial; luminance per MoRTH spec
- Application temperature: 170-190°C; traffic set time  $\leq 10$  minutes
- White (luminance  $Y \geq 0.25$ ) and Yellow ( $Y \geq 0.20$ ) color grades
- Supplied with full test reports, TDS & tender documentation support


**BEST SUITED FOR**

NHAI projects, PMGSY roads, BOT/HAM highway corridors, state PWD contracts & government tenders


**MORTH/MOST SPECIFICATION**

NHAI · PWD · PMGSY · Government Tenders

**MORTH TECHNICAL SPECIFICATIONS**
 **$\geq 200$** 

mcd/m<sup>2</sup>/lux  
Retroreflectivity

**102.5°C**

Min Softening  
Point (R&B)

**1.9-2.1**

Specific Gravity  
(IS:1520)

**35-40%**

Glass Bead  
Content

 **$\leq 10$  min**

Traffic Set  
Time

## PRODUCT COMPARISON

## HIWAYMARK RANGE – DETAILED SPECIFICATIONS

| PARAMETER                      | ECO                                                                | STANDARD                         | PRO                                  |
|--------------------------------|--------------------------------------------------------------------|----------------------------------|--------------------------------------|
| Base Compound                  | Hydrocarbon resin (recycled content)                               | Hydrocarbon resin (virgin grade) | Modified hydrocarbon (premium grade) |
| Glass Bead Content             | Recycled                                                           | Standard                         | High Index                           |
| Retroreflectivity              | ≥ 150 mcd/m <sup>2</sup> /lux                                      | ≥ 200 mcd/m <sup>2</sup> /lux    | ≥ 350 mcd/m <sup>2</sup> /lux        |
| Maximum Single Layer Thickness | 2.0 – 3.0 mm                                                       | 2.5 – 3.5 mm                     | 3.0 – 4.5 mm                         |
| Application Temp.              | 180 – 200°C                                                        | 170-190°C                        | 170-190°C                            |
| Traffic Set Time               | 10 – 15 min                                                        | 10 – 12 min                      | 8 – 12 min                           |
| Typical Durability             | 1+ Years                                                           | 1-2 Years                        | 2+ Years                             |
| Anti-Skid Profile              | Optional                                                           | Optional                         | Built-In (SRT ≥ 55)                  |
| Compliance                     | IRC:35 · ASTM D6628 · BIS IS:5203 · ISO 9001:2015 · MoRTH Approved |                                  |                                      |

All specifications subject to testing conditions. Mail us for project-specific datasheets and TDS.

[office@hiwayroadtech.com](mailto:office@hiwayroadtech.com)

## RETROREFLECTIVE GLASS BEADS

# HIWAY BEADS

DROP-ON · PREMIX · HIGH-INDEX

Hiway Beads are premium glass microspheres engineered for use with all thermoplastic road marking compounds. Available in drop-on and premix grades, they ensure immediate and long-lasting retroreflectivity — critical for night-time driver safety in all weather conditions.

## KEY FEATURES

- Drop-on grade: applied on hot thermoplastic surface immediately after laying
- Refractive index: 1.5 (standard) and 1.9 (high-index) grades available
- Roundness  $\geq 80\%$ ; silicone-coated for superior adhesion to binder
- Graded particle size: 150–850  $\mu\text{m}$ ; free of bubbles and inclusions
- Fully compatible with all Hiwaymark thermoplastic grades
- Compliant with EN 1423, ASTM D1155 & IRC:35 bead specifications



## BEST SUITED FOR

All thermoplastic road marking projects — Hiwaymark Eco, Standard, Pro & Pro+ grade compounds



## EN 1423 &amp; ASTM D1155 COMPLIANT

Silicone Coated · High Roundness · Graded

## TECHNICAL SPECIFICATIONS

**1.5 / 1.9**

Refractive Index  
(Std / Hi-Index)

 **$\geq 80\%$** 

Bead Roundness  
Percentage

**150–850  $\mu\text{m}$** 

Particle Size  
Range

**Drop-On**

+ Premix  
Grades

**EN 1423**

Compliance  
Standard

WHERE WE MAKE A DIFFERENCE

## APPLICATIONS ACROSS EVERY ROAD TYPE



### NATIONAL HIGHWAYS

High-speed lane markings, rumble strips and edge lines for NH & expressway corridors.



### URBAN & CITY ROADS

Zebra crossings, bus stops, stop lines and junction markings for city infrastructure.



### AIRPORTS & RUNWAYS

High-visibility Hiwaymark Pro markings for runways, taxiways and apron areas.



### INDUSTRIAL & PORT ZONES

Heavy-duty markings for factory roads, port approaches and logistics hubs.



### SCHOOL & HOSPITAL ZONES

High-visibility yellow markings and solar blinkers to protect vulnerable road users.



### PARKING & PRIVATE ROADS

Bay lines, directional arrows and specialty markings for malls, campuses and townships.

## SOLAR ROAD SAFETY DEVICE

# SOLAR BLINKERS

SOLAR POWERED · IP68 · VISIBLE 800M

Our solar-powered LED road blinkers provide reliable, maintenance-free hazard lighting at blind curves, railway crossings, school zones, and construction zones. Zero external power required — fully autonomous operation, day and night.

## KEY FEATURES

- High-efficiency solar panel with 6Ah-48Ah Battery Backup
- Visible up to 800m; flash rate 60 flashes per minute
- IP68 rated — fully waterproof; withstands monsoon conditions
- Custom Manufactured to meet BOQ Specification
- 24 Hours Operation
- Available in yellow, white, red and blue LED configurations
- 2 year product warranty; minimal maintenance required

## BEST SUITED FOR

Blind curves, railway crossings, school zones, construction zones, speed breakers & median islands


HIGH-EFFICIENCY  
POLY-SILICON SOLAR  
PANEL

INTEGRATED BATTERY  
COMPARTMENT  
(Located inside Blinker Unit)

SINGLE-HEAD 300mm  
RED LED TRAFFIC  
FLASHING UNIT

POWDER-COATED  
WEATHER-RESISTANT  
STEEL POLE


100% SOLAR POWERED

Zero External Power · IP68 · 20T Load Rated

## TECHNICAL SPECIFICATIONS

800 m

Visibility  
Range

IP68

Protection  
Rating

20 Ton

Load Bearing  
Capacity

60/min

LED Flash  
Rate

8-10 h

Runtime per  
Charge

## ROAD SAFETY PRODUCTS

# TRAFFIC SIGNAGES

RETRO-REFLECTIVE · ASTM COMPLIANT

Hiway Road Tech manufactures a comprehensive range of retro-reflective traffic signages for national and state roads. Fabricated on high-quality aluminium or ACP substrates with precision-cut retroreflective sheeting, our signs deliver maximum visibility in all weather and lighting conditions.

## SIGN CATEGORIES


**MANDATORY SIGNS** — Stop, Speed Limit, No Entry, One Way

**WARNING SIGNS** — School Zone, Bend, Junction, Crossroads

**INFORMATIONAL SIGNS** — Direction, Distance, Tourist, Hospital

**OVERHEAD & GANTRY** — Highway gantries, VMS boards, cantilevers

## KEY SPECIFICATIONS

- Retroreflective sheeting Type I, IV & XI available
- Substrate: Aluminium Sheeting, Aluminium Composite Panels
- UV-stable inks; upto 10-year warranty
- ASTM D4956 compliant; custom sizes and legends available


**ASTM D4956 CERTIFIED**

Custom Sizes · MoRTH Spec · Pan-India Supply

## PRODUCT SPECIFICATIONS

## Type I-XI

Retroreflective  
Sheeting Grades

## 1.5-4 mm

Aluminium /ACP  
Sheetings

## 10 Yrs

Warranty on  
Premium Sheeting

## Custom

Sizes, Legends  
& Colors

## IRC:67

MoRTH / IRC  
Compliant

## OVERHEAD SIGN STRUCTURES

# GANTRY & CANTILEVER SIGN STRUCTURES

Hiway Road Tech designs, fabricates and supplies galvanized steel overhead sign structures for national and state highways. Built to IRC:SP:73 and MoRTH specifications, our gantry and cantilever structures provide robust, long-life mounting solutions for high-speed road signage.



## FULL-SPAN GANTRY



Full-width overhead portal frames spanning the entire carriageway. Used for lane-specific overhead signing, VMS integration and toll plaza gantries.

- Span: 6m to 42m; single or multi-cell portal
- Hot-dip galvanised steel; wind load as per IS:875
- Anchor bolt foundation design provided
- Rated for 30+ years design life



## CANTILEVER ARM



Single-arm sign support mounted on a roadside mast. Cost-effective for single-direction signing on divided highways, exit ramps and approach roads.

- Arm reach: 2m to 10m from mast centreline
- Adjustable sign clamp; maintenance access ladder
- Compatible with all retroreflective sign panels
- Single or double mast configurations

### STANDARDS

IRC:SP:73 • MoRTH • IS:875 • IS:2062

### MATERIAL

Hot-dip galvanised structural steel;  
powder-coated finish optional

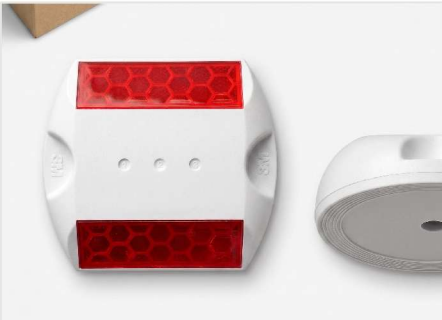
### SUPPLY SCOPE

Design, fabrication, supply & erection;  
foundation design on request

AUTHORIZED DISTRIBUTOR

## 3M ROAD SAFETY PRODUCTS RANGE

**3M**  
AUTHORIZED



### RAISED PAVEMENT MARKERS

Ceramic lens road studs for lane delineation. Visible up to 300m. Solar & non-solar options.



### MEDIAN MARKERS

Flexible & Rigid markers for median separation. Impact-resistant with Hi reflective face.



### DELINEATORS

Roadside guide posts with retro-reflective face. Aluminium or FRP posts for curves, bridges & slip roads.



### VARIABLE MESSAGE SIGNS

LED matrix displays for real-time traffic info. Remote via 4G/LAN. Auto day/night brightness adjustment.



### REFLECTIVE SHEETINGS

Engineer Grade, High Intensity & Diamond Grade. ASTM D4956 Type I-XI. For sign faces & vehicle marking.



### CONSPICUITY TAPE

Retro-reflective vehicle marking tape. AIS 090 / ECE Reg. 104 compliant for trucks, trailers & buses.

AUTHORIZED DISTRIBUTOR

Hiway Road Tech is an authorized distributor of 3M Road Safety products. Contact us for specifications, pricing and installation support across India.

**3M**

## OUR ADVANTAGE

## WHY ROAD PROFESSIONALS CHOOSE HIWAY ROAD TECH

**01****CERTIFIED QUALITY**

All products are IRC, ASTM and BIS certified. Every batch is tested for retroreflectivity, adhesion and durability before dispatch.

**02****TECHNICAL FIELD SUPPORT**

Our trained technicians provide on-site application support, equipment guidance, and post-installation quality checks across all regions.

**03****PAN-INDIA SUPPLY**

Warehousing and distribution network spanning 20+ states ensures timely delivery to project sites, regardless of location.

**04****ECO-FRIENDLY OPTIONS**

Hiwaymark Eco offers a sustainable alternative with up to 30% recycled content — ideal for green-rated and GRIHA projects.

**05****DIRECT MANUFACTURER**

No middlemen. Factory-direct pricing with bulk discounts for contractors, government tenders and long-term supply agreements.

**06****CONSISTENT QUALITY**

ISO 9001:2015 certified production process ensures uniform quality across every tonne of material supplied to your project.

*"From state highways to city lanes — Hiway Road Tech has been the trusted marking partner for contractors and government agencies seeking quality, compliance, and reliable supply."*

PARTNER WITH US

# GET IN TOUCH

Ready to mark your roads with quality? Our team is available for product inquiries, technical consultations, and project-specific quotations.

CALL US

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VISIT US ONLINE

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