

Road Safety Catalogue 2020



F S ENTERPRISES

M/S F S Enterprises

(AN ISO 9001:2015 CERTIFIED COMPANY)

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- ▬ Road Safety Products
- ▬ Road Reflective Signages
- ▬ Railway & Airports Signages



REGISTERED ON:



Efficient • Transparent • Inclusive



MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES
GOVERNMENT OF INDIA

MSME

सूक्ष्म, लघु एवं मध्यम उद्यम
MICRO, SMALL & MEDIUM ENTERPRISES



LINEAR DELINEATOR SYSTEM (LDS)

Designed for continuous enhanced road guidance along concrete barriers, centre round about & metal guards. These provide Night time visibility at locations where normal sign boards cannot be installed. These **LDS** are fabricated using micro prismatic reflective sheeting & provide superior reflectivity at wider angles.

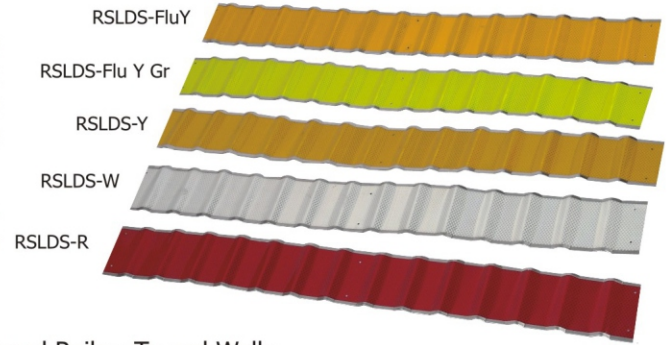
LDS is intended for the linear reflectorization of Concrete Barriers & Metal Guardrails. It provides Retroreflection across a very wide range of entrance & observation angles.

Applications

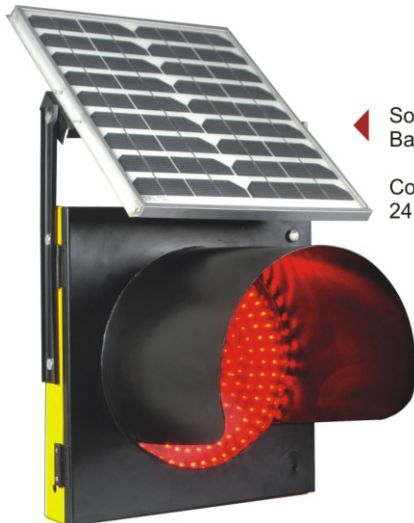
- Highway Clover Leaf • Exit Curves • Concrete Barriers • Metal Guard Rails • Tunnel Walls
- Gap in Verge • Bridge Guard Rails • Approach to Bridges • Centre Round About

Features

Aluminium Substrate • Size - 850 x 100mm • Pre-punched Holes • Hemmed Edges • Available in all colours



SOLAR TRAFFIC BLINKER/FLASHER GTF - 300/12



◀ Solar Panel - 16 Volts , 10 W
Battery - 12 Volts, 10 AH
Maintenance Free
Colour - Red/Amber
24 Hours Flashing

SOLAR ROAD STUDS

GSR-902

Aluminium Alloy and Polycarbonate
125 X 125 X 20 mm
6 LED with Stem

GSR-902

Aluminium Alloy and Polycarbonate
125 X 125 X 20 mm
6 LED with Stem

Self-illuminating in dim areas or during night time. Solar rechargeable batteries for continual performance without much maintenance . Super bright LEDs with a viewing distance of 500-800 metres. Equipped with prismatic reflective lens on each side ensure maximum reflectivity. Made up of highly compressive material, can sustain over 10 tonnes. Water resistant.

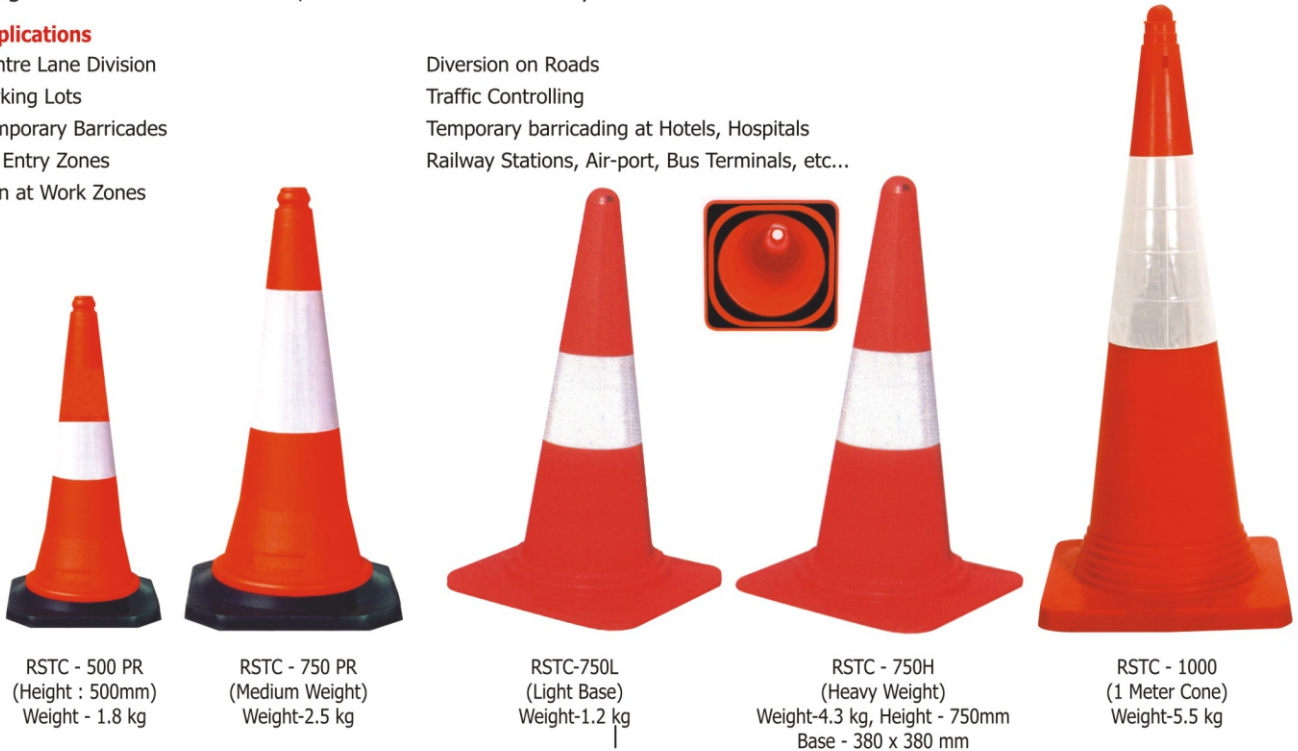
PVC TRAFFIC SAFETY CONES

These Traffic Safety Cones are made of special PVC material making them highly flexible and durable. If a vehicle hits a cone, it does not get damaged and comes to its original state. A high reflective sleeve/sheeting is fixed on it for better vision at night and bad weather conditions. It also has provision for fixing of plastic chain or caution tape. These are also available with heavy weight base fixed at the bottom, due to which it does not fly-off with fast traffic or winds

Applications

Centre Lane Division
 Parking Lots
 Temporary Barricades
 No Entry Zones
 Men at Work Zones

Diversion on Roads
 Traffic Controlling
 Temporary barricading at Hotels, Hospitals
 Railway Stations, Air-port, Bus Terminals, etc...



RSTC - 500 PR
 (Height : 500mm)
 Weight - 1.8 kg

RSTC - 750 PR
 (Medium Weight)
 Weight-2.5 kg

RSTC-750L
 (Light Base)
 Weight-1.2 kg

RSTC - 750H
 (Heavy Weight)
 Weight-4.3 kg, Height - 750mm
 Base - 380 x 380 mm

RSTC - 1000
 (1 Meter Cone)
 Weight-5.5 kg

METAL PIPE BOLLARD

Meant to guide the Traffic for Safe Direction Generally installed at the crossing/start of central verge/diversions etc. Consists of 2/3 plates

- Square
- Message Plate (Optional)
- Round Plate mounted on Powder coated M.S. Pipe



RAISED PAVEMENT MARKER/CAT'S EYE/ROAD STUDS

Designed to provide Enhanced, Dependable road Guidance to motorists in bad weather conditions. Much Better than glass beads markers; these are visible from long distances. These are installed with **Special Hot Melt Bitumen Adhesive** avoiding Nails etc. which can have a harmful effect on the road.

Meets or Exceeds ASTM D - 4280

<p>3M 290 Series</p>  <p>ABS Cat's Eye 90 x 110 x 17mm</p> <p>Conforms ASTM Standards</p>	<p>3M 290 Series</p>  <p>ABS Cat's Eye 90 x 110 x 17mm</p> <p>Conforms ASTM Standards</p>	<p>Avery Dennison C-80 Series Ennis Paint</p>  <p>High Impact Polymer 81 x 116 x 17 mm</p> <p>Conforms ASTM Standards</p>	<p>GP-DM-01A</p>  <p>ABS Material 100mm X 100mm X 20 mm Two Side Acrylic Plastic Reflectors Has larger reflective Area Cellular Lens Design allows lens to Continue functioning even after impact / damage.</p> <p>Conforms ASTM Standards</p>
<p>GP-733</p>  <p>ABS Material 100mm X 100mm X 20 mm Two Side Acrylic Plastic Reflectors</p> <p>Conforms ASTM Standards</p>	<p>GP-733 SHIBO</p>  <p>ABS Material SHIBO 100mm X 100mm X 20 mm Two Side Acrylic Plastic Reflectors</p> <p>Conforms ASTM Standards</p>	<p>GP-733A (With Two Nails)</p>  <p>ABS Material 100mm X 100mm X 20 mm Two Side Acrylic Plastic Reflectors</p> <p>Conforms ASTM Standards</p>	<p>GP-733B (With Central Hole)</p>  <p>Two Thumbs</p> <p>ABS Material 100mm X 100mm X 20 mm Two Side Acrylic Plastic Reflectors</p> <p>Conforms ASTM Standards</p>
<p>GP-734</p>  <p>ABS Material (with Nail) 100 X 100 X 20 mm 19 Beads Each Side</p>	<p>GP-777P</p>  <p>ABS Stud with Stem 110mm X 128mm X 30 mm Two Side Acrylic Plastic Reflectors</p>	<p>GP-DM-02</p>  <p>ABS Material (with Stem) 100mm X 100mm X 20 mm Two Side Acrylic Plastic Reflectors</p> <p>Conforms ASTM Standards</p>	<p>Accessories</p>  <p>Squeeze</p>

ALUMINIUM ALLOY PRESSURE DIE CAST

<p>GP/RS-731</p>  <p>Aluminium Alloy (with Square Nail) 100 x 100 x 20 mm Two Side Retro Reflectors</p>	<p>GP/RS-732</p>  <p>Aluminium Alloy (with Stem) 100 x 100 x 20 mm Two Side Retro Reflectors</p>	<p>GP/RS-741</p>  <p>Aluminium Alloy (with Stem) 100 x 100 x 20 mm Two Side Retro Reflectors</p>	<p>GP/RS-742</p>  <p>Aluminium Alloy (with Square Nail) 100 x 100 x 20 mm Two Side Retro Reflectors</p>
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MEDIAN MARKER - MM2 (Double Side), MM1 (Single Side)

Latest High Technology Safety Against Median Crashes

Median Marker is a New High Technology Reflective Product. It offers greatest visibility of Medians during Night Time conditions. It helps in reducing Accidents & increases Safety on the Road. Made of Tough, Impact Resistant Thermoplastic Body with an Isosceles Trapezoidal structure.

Reflective surface-round or square shape reflector available in Red / Yellow / White colour.

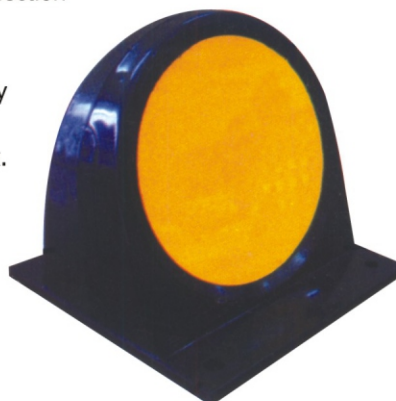
Features :

- For use in City & Highway Driving Conditions
- Embedded Reflective Material
- Excellent Reflectivity using Microprismatic Reflective Sheeting conforming as per ASTM D4956 Specification
- Inclined Reflective Surface for High Reflection
- Self Cleaning Design
- Best Day & Night Visibility
- Great Long & Short Distance Reflectivity
- Tough Engineering Plastic Body
- Dimension 120 x 100 x 100 mm approx.

Applications :

- Lane Divider
- Gap in Median
- Roundabouts
- Curves
- Kerbs
- Flyovers

RSAMM - 2Y



RSMM - 2Y

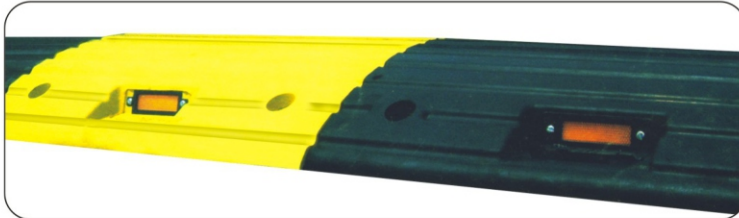




MODULUR SPEED BREAKER/RUMBLER

Made of Sturdy Plastic (ABS), these Bumps offer high resistance to severe impacts. The interlocking grip design allows it to behave like one single Bump. The precoloured materials (Black & yellow) and UV stabilisers result in Permanent colours which does not fade easily. Acrylic Reflectors fixed on front & back help in identifying the location of the speed breaker from a large distance.

RUBBERISED



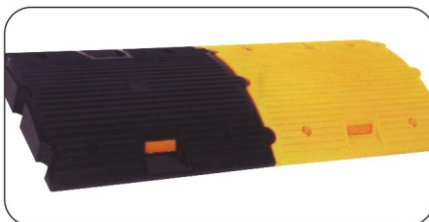
GSB - 50 500 x 450 x 50 mm
GSB - 75 500 x 450 x 75 mm

ABS



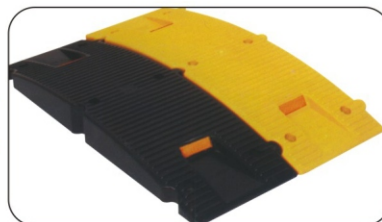
GP 1005
250 X 350 X 50 mm

ABS



GP1001
500 x 425 x 75 mm

ABS



GP 1006
250 x 750 x 75 mm

Model	Material	Height	Width	Length
GSB - 50	Rubber	50mm	400mm	500mm
GSB - 75	Rubber	75mm	400mm	500mm
GP-1005	ABS	50mm	350mm	250mm
GP-1001	ABS	75mm	425mm	500mm
GP-1006	ABS	75mm	750mm	250mm

50mm High Slows Speed to 10-20 kmph
75mm High Slows Speed to 5-10 kmph

- › Available in Black and Yellow Combination for Greater Visibility
- › Pre Coloured Material,
- › Does not require Repainting
- › Instant Installation with application of Epoxy and Spikes for Anchoring
- › All Segments can be purchased separately
- › Comes with a Standard Skid Resistant Base
- › UV, Moisture and Temperature Resistant
- › Modular Design provides Flexibility to suit any size of Road

ROAD SAFETY CONVEX MIRRORS

- Made up of Polycarbonate Reflective Mirrors.
- Body is made of ABS/Fiber/Plastic.
- Suitable for Indoor/Outdoor use with Hood.
- Complete with Mounting Hardware (without pipe).



RSCM - 45

45 cms



RSCM - 60

60 cms



RSCM - 80

80 cms



RSCM - 100

100 cms

SPRING POST / REBOUNDABLE DELINEATOR

Made of Special Strong Flexible UV Protected Poly-Urethane Material. It reduces road accidents by providing an advance warning. Its excellent reboundability quickly restores its original state without doing any damage to the vehicle as well as spring post.

- Made of Strong Flexible UV Protected PU
- Single Piece, No Joint for Greater Durability
- Three Reflective Bands
- Extremely High Quality of Reflecting Sheeting used
- Very Durable

Available in 3 Sizes

- RSSP - 450 450x80x200mm
- RSSP - 600 600x80x200mm
- RSSP - 750 750x80x200mm

Applications

- Centre Lane Division
- Dangerous U-Turns
- Dangerous Medians
- Construction Zones
- No-Entry Zones
- Multi Lanes
- Centre Verge
- Sharp Curves
- Parking Lots
- Highways
- T-Zones



Installation Procedure :

- Clean the Area where Spring Post is to be Installed
- Mark the Nail Points
- Grout the holes & Clean the surface again.
- Mix Epoxy & Hardner in proper ratio & pour in the holes made
- Place the spring post & fix the bolts with hammer

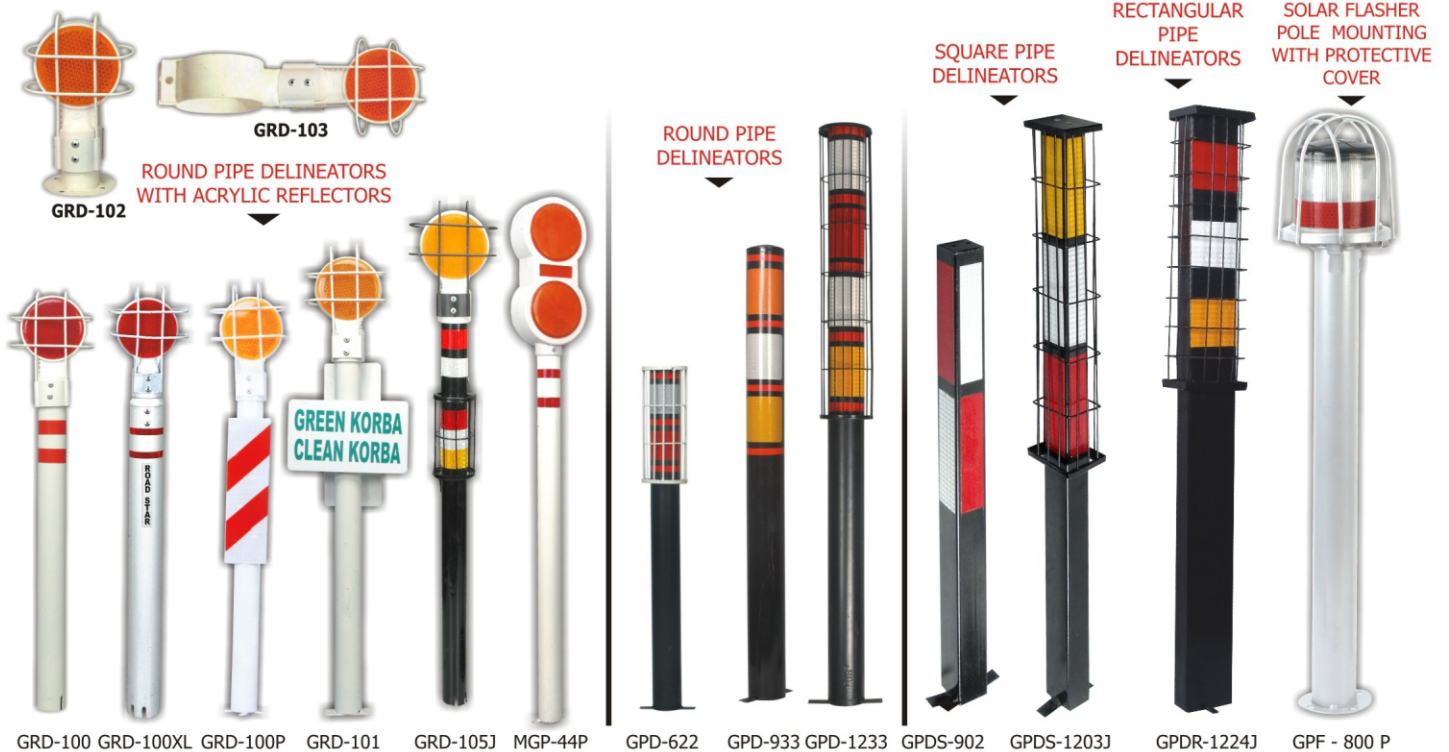
DELINEATORS

The Delineators are suitable for all kinds of roads. Their reflectors give best reflective performance to show the road geometry during day and night making it convenient for drivers and keep them away from road hazards. These result in avoidance of accidents

Applications

- Dangerous Curves
- Central Verge
- Traffic Island
- Tunnels/Bridges
- Road Medians

(The Delineators are available in different fittings/sizes for different purposes)




ROAD SIGNS

CONFORMING TO IRC : 67-2001 STANDARD








































MANDATORY

 STOP	 GIVE WAY	 NO ENTRY	 ← ONE WAY →	 VEHICLES PROHIBITED IN BOTH DIRECTIONS	 ALL MOTOR VEHICLES PROHIBITED	 TRUCK PROHIBITED	 BULLOCK CART & HAND CART PROHIBITED	
 CYCLE PROHIBITED	 PEDESTRIAN PROHIBITED	 RIGHT TURN PROHIBITED	 LEFT TURN PROHIBITED	 U TURN PROHIBITED	 OVERTAKING PROHIBITED	 BULLOCK CART PROHIBITED	 TONGA PROHIBITED	 HAND CART PROHIBITED
 LENGTH LIMIT 10 m	 LOAD LIMIT 5T	 AXLE LOAD LIMIT 4T	 SPEED LIMIT 50	 WIDTH LIMIT 2m	 HEIGHT LIMIT 3.5m	 HORN PROHIBITED	 NO PARKING	 NO STOPPING
 RESTRICTION ENDS	 COMPULSORY TURN LEFT	 COMPULSORY AHEAD ONLY	 COMPULSORY TURN RIGHT	 COMPULSORY AHEAD OR TURN RIGHT	 COMPULSORY AHEAD OR TURN LEFT	 COMPULSORY KEEP LEFT	 COMPULSORY CYCLE TRACK	 COMPULSORY SOUND HORN





















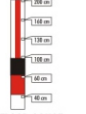


WARNING

 RIGHT HAND CURVE	 LEFT HAND CURVE	 RIGHT HAIR PIN BEND	 LEFT HAIR PIN BEND	 RIGHT REVERSE BEND	 LEFT REVERSE BEND	 STEEP DESCENT	 STEEP ASCENT	 CYCLE CROSSING	 PEDESTRIAN CROSSING
 SCHOOL	 CATTLE	 FALLING ROCKS	 FERRY	 NARROW ROAD AHEAD	 ROAD WIDENS AHEAD	 NARROW BRIDGE	 SLIPPERY ROAD	 MEN AT WORK	 DUAL CARRIAGE WAY ENDS
 STAGGERED INTERSECTIONS	 CROSS ROAD	 GAP IN MEDIAN	 LEFT SIDE ROAD	 RIGHT SIDE ROAD	 Y-INTERSECTION		 HORSES		
 ← MAJOR ROAD AHEAD →	 ROUND ABOUT	 DANGEROUS DIP	 HUMP OR ROUGH ROAD	 BARRIER AHEAD	 T INTERSECTION	 SPEED BREAKER	 GUARDED RLY. CROSSING	 UNGUARDED RLY. CROSSING	



INFORMATORY

 ADVANCE DIRECTION SIGN	 Najafgarh 1 New Delhi 30 Rohtak 79 Delhi PLACE IDENTIFICATION SIGN	 RE ASSURANCE SIGN	 1 Km PUBLIC TELEPHONE	 PETROL PUMP	 HOSPITAL	 FIRST-AID POST	 PARK THIS SIDE	 PARKING BOTH SIDES	 SCOOTER & MOTOR CYCLE STAND	 AUTO RICKSHAW STAND
 Najafgarh 3 New Delhi 28 Rohtak 81 DESTINATION SIGN	 SIDE ROAD	 EATING PLACE	 REFRESHMENT	 PLACE	 ROAD	 CYCLE STAND	 TAXI STAND	 CYCLE RICKSHAW STAND	 FLOOD GAUGE	

Specifications

Substrate :	2mm thick Aluminium Sheet with degreasing treatment & fine grinding on front side for proper pasting of Reflective sheet & degreasing treatment & stove enamel paint on backside.
Reflective Material	* Engineering Grade/Safety Grade * High Intensity Grade (Encapsulated Lens type) * High Intensity Prismatic HIP * Micro prismatic Lens (Diamond Grade/OMNI Grade Type VIII & IX)
Symbols/Messages / Lettering/Border:	Screen Printed/Cut-outs.

Sizes of Signs

Signs	Shape	Normal Size (mm)	Small Size (mm)
Mandatory			
i) Stop Sign	Octagonal	900	600
ii) Give way sign (Inverted)	Equilateral triangle	900	600
ii) Others	Circular	600	400
Warning	Equilateral Triangle	900	600
Informatory	Rectangle	800x600	600x450

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SOLUTIONS FOR ROAD SAFETY



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