TRAFFIC CONTROL DEVICE













Lecture Outline

1. **Components and Objectives**
2. **General Requirements**
3. **Traffic Signs**
4. **Latest Trend In Signs**
5. **Sign Problems in Bangladesh**

Ref:

Manual of Uniform Traffic Control Devices

(MUTCD) + BRTA

TRAFFIC CONTROL DEVICES

Traffic control device include all

- » Signs
- » Markings
- » Signals

Objective

- To regulate
- To warn
- To guide traffic movements
- To ensure safe and smooth flow of traffic movements

General Requirements:

Traffic control devices should:

- Fulfill a need- must be reasonable and appropriate for the traffic requirements at the locations used
- Command attention & respect of drivers & pedestrians
- Convey a clear and simple meaning-legible at long range and understandable at a glance.
- Give users time for proper response
- Be uniform in design and application-the size, shape, color of the device/letter/Symbol, mounting height, and lighting should be uniform and consistent
- Be visible both at day and night

General Requirements (cont..)

Traffic control devices should:

- Be maintained at high standard - to ensure legibility and visibility
- Generally as some control devices **impose restriction** on vehicle movements — it is **recommended t**hat –

    - These should be **used conservatively** to avoid disrespect by the drivers — if used in excess, tend to lose their effectiveness.

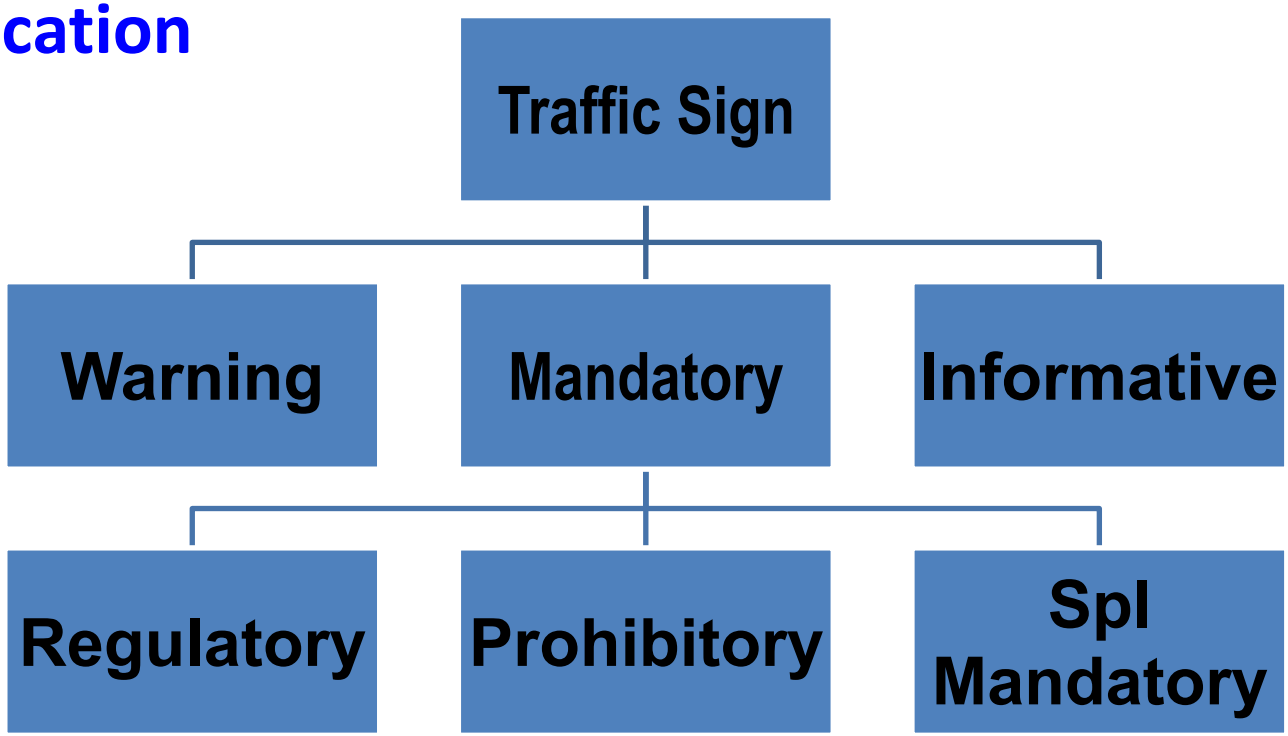
    - Moreover, these **should not be used alone**, where enforcement is required to compel drivers to obey them.

Traffic Signs

Traffic signs are mainly used to

- **inform drivers about regulation**
- **adjust their lane position and speed.**
- **guide them to reach their point of interest.**

Classification



Warning or Cautionary Signs: (**should follow**)

- Convey message to warn or to direct attention to condition on or adjacent to a street that pose potential hazards to traffic operations (**Safety Sign)**
- Violation is not always an offence.
- **Examples**: *Junctions, Side road, Narrow bridge, School, Hospital, Sharp bend, level X, zigzag/slippery road* etc.
- Shape: In most countries, they usually take the shape of an equilateral triangle or diamond. with a white background and a thick red border.

Warning or Cautionary Signs: (Example)

Warning Sign


Crossroads


Major road ahead (crossroads)


Side road right (left if symbol reversed)


Staggered junction (symbol may be reversed)




T junction


Y junction


Traffic merges from left


Marge with traffic from right




Roundabout


Sharp bend to the right (left if symbol reversed)


Hairpin bend to right (left if symbol reversed)


Double bend first left (left if symbol reversed)

Mandatory Signs: (shall follow)

- Inform users about traffic laws & regulations.
- Violation is a legal offence.
- Usually **circular in shape** with red border, white background

Types:

1. Regulatory 2. Prohibitory 3.Special Mandatory Signs

Regulatory Sign



Regulatory Signs are traffic signs intended to instruct road users on what **they must or should do** under a given set of circumstances. They give users notice of **traffic laws and regulations**.

Example: Slow, Keep Right/left, One way traffic etc.



Prohibitory Traffic Signs :

- Prohibitory traffic signs are used to prohibit certain types of maneuvers or some types of traffic.

- Examples: No right/left/U turn, No entry, No horn, No parking etc.

- Shape: Most mandatory road signs are Circular having white symbols on a blue background with white border or having black symbols on a white background with a red border, although the latter is also associated with prohibitory signs.

Prohibitory Signs

‘না-বাচক’ বাধ্যতামূলক সাইনসমূহ

 (NO ENTRY) সব ধরনের গাড়ি প্রবেশ নিষেধ	 (NO MOTOR VEHICLES) মোটরযান চলাচল/প্রবেশ নিষেধ	 (NO TRUCKS) ট্রাক চলাচল/প্রবেশ নিষেধ	 (NO HANDCARTS) ঠেলাগাড়ি চলাচল নিষেধ
 (NO ANIMAL-DRAWN VEHICLES) পশুচালিত যান চলাচল নিষেধ	 (NO PEDESTRIANS) পথচারী চলাচল নিষেধ	 (NO RICKSHAWS) রিকশা চলাচল নিষেধ	 (NO CYCLES) সাইকেল চলাচল নিষেধ
 (NO TRACTORS OR SLOW-MOVING VEHICLES) ট্রাক্টর অথবা ধীরগতির মোটরযান চলাচল নিষেধ	 (NO VEHICLES CARRYING EXPLOSIVES) বিস্ফোরকদ্রব্যবাহী মোটরযান চলাচল নিষেধ	 (NO VEHICLES OVER LENGTH SHOWN) প্রদর্শিত মাপের বেশি দৈর্ঘ্যের মোটরযান চলাচল/প্রবেশ নিষেধ	 (NO VEHICLES OVER HEIGHT SHOWN) প্রদর্শিত মাপের বেশি উচ্চতার মোটরযান চলাচল/প্রবেশ নিষেধ
 (NO VEHICLES OVER WIDTH SHOWN) প্রদর্শিত মাপের বেশি প্রশস্ত মোটরযান চলাচল/প্রবেশ নিষেধ	 (NO VEHICLES OVER MAXIMUM GROSS WEIGHT SHOWN) প্রদর্শিত ওজনের বেশি (মোটরযানসহ ওজনের মোটরযান সেতুতে নিয়ে (মূর্ণ সেতু)	 (AXLE WEIGHT LIMIT) প্রদর্শিত ওজনের বেশি এক্সেল ওজনের মোটরযান চলাচল নিষেধ	 (NO PARKING) পার্কিং নিষেধ

PREV

Special Mandatory Signs





Informatory or Guide Signs: (may follow)

- An information sign informs people the *direction* of important places of interest
- **Guide** the road users to make the travel convenient, safe and comfortable.
- Used in a location where motorists **would** be in **doubt**.
- Don't loose effectiveness by over-use.
- Examples: Route direction, milestone / distance etc.
- Shape: Usually rectangular.

Information Signs


No through road


Pedestrian crossing


Parking place



Filling station


Breakdown service


Telephone


Overnight accommodation


First-aid post


Hospital


Refreshments


Restaurant


Picnic site

Route Signs



Advance direction sign (National Highways)



Advance direction sign-alternative style



Advance direction sign (mounted overhead)

Informatory or Guide Signs













New Trend

- Increasing use of icons, logos and symbols instead of using letters and words.
- Increasing use of breakable/collapsible /shock absorbing typed sign-posts especially when they are placed near to the carriageway
- Increasing use of Variable Message Signs (**VMS)**

VMS

A variable- (also changeable) message sign, is an electronic traffic sign often used on roadways to give travelers information about special events.

Conventional signs are very rigid but VMS displays real time information,

They are more responsive to field condition.

They need electricity and data communication network.

VMS

The information is most often displayed in real-time and can be controlled either from a remote centralized location or locally at the site.

Traveler information displayed on VMS may be generated as a result of a planned or unplanned event, which is programmed or scheduled by operations personnel.

Examples of traveler information include: Travel times between known destinations, Congestion conditions along a freeway corridor, Construction notices, Special event notice and motorist instructions, Maintenance operations schedule, Pending severe weather announcement, Incident notification

VMS



VMS



VMS

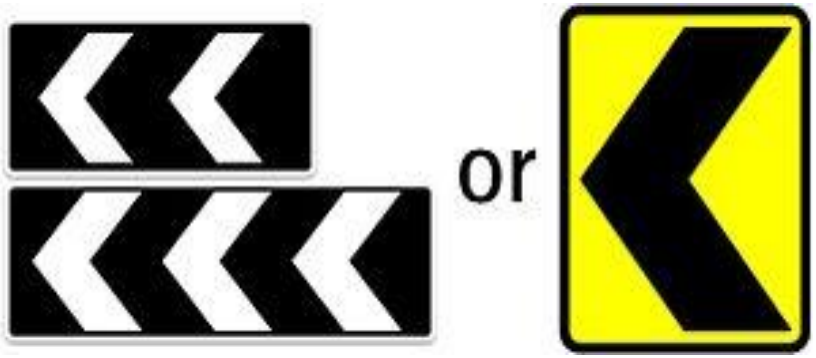

ACCIDENT AHEAD
30 MIN DELAY
USE NEXT OFFRAMP
Automotive Horizon

VMS



Chevron Arrows

- Signs indicating a sharp bend on a road.
- Chevron shaped arrows on rectangular signs may be placed at the actual location of the bend or curve to further mark the location of the curve and to assist in negotiation of the curve.





Sign problems in Bangladesh

-Absence of complete “Highway Manual”.

-Faulty designs (inconsistent size, color, wording, incorrect height, placement etc.).

-Absence of required signs at potentially hazardous locations.

-Misuse of signs.

-Obstructed signs.

-Poor maintenance.

Sign problems in Bangladesh (cont..)

@ Existence of misguiding signs.

@ Lack of supplementary markings.

@ Presence of a large number of illiterate road users.

Eventually all these factors contributed to drop the respect & effectiveness of traffic signs as controlling device and in consequence, with time a tendency has developed among the road users to ignore the signs.

As power failure is very common, use of **retro- reflective** signs/markings would be most appropriate even within the city areas.

Example Video


স্বাধীনতা দিবস উপলক্ষে
নতার স্বপ্ন স্বাধ তেঘরিয়া
নিয়ন বাসীর ঘরে ঘরে
ছিয়ে দিতে চাই।
হাজী মোঃ জজ
বিশিষ্ট শিল্পপতি, গরীব দুঃখী মানুষের বন্ধু এবং বিশিষ্ট সমাজ
প্রচারে ঃ তেঘরিয়া ইউনিয়নের জনগন।


আব্দুল্লাহপুর
BDULLAHPUR


banglalink desh সেরা রিফ্রেইড প্যাকেজ
banglalink
KHULNA
BARISAL
FARIDPUR
GOPALGANJ
BHANGA


holcim


বামে মোড়


ওভার টেকিং
নিষেধ




শিরাজদিখান
SHIRAJDIKHAN




ব্যবসা, ব্যবসা, ব্যবসা,
অল্প পুজিতে ব্যবসা
মোম, কলম, চানাচুর, মুড়ি, সাবান,
জুস, ডিমফোটানো, কেক সহ ১০প্রকার
প্রশিন বিক্রি করা হয় প্রশিক্ষণ ফ্রি
জাপান সাওয়ার মেশিন কেং
মোবাঃ 01711061654
01911436801
রাজদিখাঁন
RAJDIKHAN


SHEKHARNAGAR
MAWA
DHAKA




মাওয়া
সেমদপুর – হাসাড়া
সিংপাড়া সড়ক


সামনে গতিরোধক
সাবধানে চলুন


পার্শ্ব রাস্তা


ডানে


খুলনা
গোপালগঞ্জ
ভাঙ্গা
মাওয়া
KHULNA
GOPALGANJ
BHANGA
MAWA
ঢাকা
DHAKA


সামনে স্কুল


মাওয়া


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LOHOJANG
L.M.A.F প্রশিক্ষণ কেন্দ্র


i'top-up



Any Question