PRESENTATION BEFORE NRSC

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“Engineering (Roads)”
Road Engineering Aspects of Safety

- **Road Geometry** Design (curves, grades, camber, super elevation)
- **Road Signs, Markings and Delineation** (mandatory, warning, informatory)
- **Road Junctions** (layout, geometry, capacity, control)
- **Access Control** (segregation, acceleration/deceleration, VRUS)
- **Safety barriers** (high embankments, medians, bridges, built up areas)
- **Visibility** (roads, junctions)
- **Facility for Driving maneuvers** (merging, diverging, weaving)

There are IRC/ MORTH standard for each of these
Where is the Problem? (1)

• Whether all the standards have been followed in the projects at each stage of project life:
  – Planning
  – Design
  – Construction
  – Operation

• How can the problem be diagnosed
  – Safety Audit
Where is the Problem? (2)

• Whether the standards themselves are adequate to take care of safety
  Or
• Whether the Standards need to be improved
• How can the problem be solved?
  – Comprehensive review of the design standards
  – Incorporating new/improved standards
Road map for solving the problems

• **Capacity building** in areas such as
  – Safety Audit (Training and accreditation of auditors)
  – Design and Operation (Training of Engineers and Police)
  – Creating Centres of Excellence and training

• **Interdisciplinary coordination** and data sharing among Road/Transport Authorities, Police, Trauma care Centres
  – Accident data and analysis for improving design
  – Traffic Management/Incident management for safe operation

• **Ownership of road safety**
  – Creating National Road Safety and Traffic Management Board
Action Plan

- Replace worn out/ missing road signs and markings for the entire network (even before safety audit)
- Conduct Safety Audit of entire network
- Implement Safety Auditor’s recommendations
- Concurrently, request IRC to review all standards with safety focus and bring out changes or new standards
- Create Centres of Excellence
- Create National Road Safety and Traffic Management Board with jurisdiction over all agencies responsible for safety
- Provide adequate funding for all the above