

PREVIEW

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PART II: FACTORS RESP FOR ACCIDENTS

Plains

Mtns

PART III: SOLNS FOR REDN OF ACCIDENTS/SEVERITY

- Structural measures
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- Org measures

PART IV: MODERN MEASURES FOR REDN OF ACCIDENTS / SEVERITY

PART V: RECOMMENDATIONS

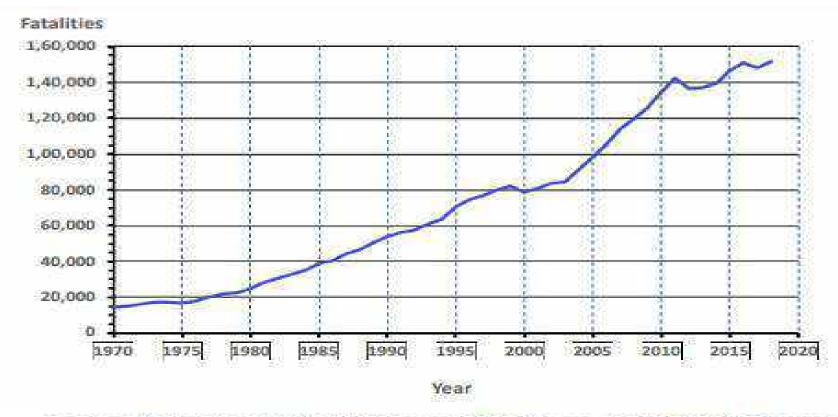
PART I: INTRODUCTION

ROAD ACCIDENTS IN INDIA

ype of road accident	Parameter	2015	2016	2017	2018	-R
atal accident	Number	1,31,726	1,36,071	1,34,796	ON	EI
	% age increase / decrease	4.7	3.3	CES		
	share in total	26.3	-	ENDE	, QC	
Grievous injury accidents	Number	1,19,668	CCR	4	EXIL	1,26,759
	% age increase / decrease		OFC	JF Y	3.6	1.2
	share in total	NE	F3	.0.0	26.8	28.2
Minor injury	Number	MY C		1,74,400	1,69,920	1,57,215
	% age	LA	-2.6	-7.1	-2.6	-7.5
The bridge of the bride of the bridge of the bridge of the bridge of the bridge of the	-CTDE" TH		39.0	37.5	36,4	35.0
	CCTIN	57,395	36,091	34,743	34,087	27,339
QD r	100 Lease	2.8	-37.1	-3.7	-1.9	-19.8
		11.4	7.5	7.5	7.3	6.1
	amber	5,01,423	4,80,652	4,64,910	4,67,044	4,49,002
	% age increase / decrease	2.5	-4.1	-3.3	0.5	-3.9

FATALITY GRAPH

- Road traffic crashes in India in 2018
 - > 1,50,785 Killed
 - > 4,69,418 Injured



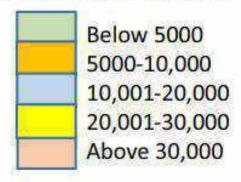
Road traffic deaths in India 1970 through 2018 (Source: NCRB 2015 & Transport Research Wing, 2019).

ROAD ACCIDENTS IN 2019 - STATE-WISE



61% OF ACCIDENT RELATED
DEATHS ARE OF STATES
WITH MAXIMUM LENGTH OF
NATIONAL AND STATE
HIGHWAYS

Total no. of Accidents in 2019



INDIA'S STANDING IN ROAD ACCIDENTS

	Accidents		Per	Persons Killed			Persons injured	
Country	Number	Rank	per Lakh people	Number	Rank	per Lakh people	Number	World Rank
United States	22,11,439	1	684	37 <mark>,4</mark> 61	3	12	31,44,000	1
Japan	4,99,232	2	393	1,000	21	4	6,14,155	2
India	4,80,652	3	36	1,50,785	1	11	4,94,624	3
Germany	3,08,145	4	374	3,206	34	-4	3,96,666	6
Chinese Taipei	3,05,556	5	1302	1,604	57	7	4,03,906	5
Iran, Isl <mark>amic Ren</mark>	2.93.305	6	365	15.998	7	20	3.63.531	7
Korea, F	TCLLE				_ , _			8
China	IGHES				$-\Delta$	HS		11
							سيسوست والماري	1750
	LOHES						• • •	9
Turkey							• • •	
Turkey Italy							• •	9 10 12
Turkey Italy Russian United k			OF				• •	10
Turkey Italy Russian United F							1,60,315	10 12
Turkey Italy Russian	CA	USE	OF	CON	ICEI	RN		10 12 13 14
Turkey Italy Russian United k Canada	CA	USE	OF	CON	ICEI	RN	1,60,315	10 12 13
Turkey Italy Russian United F Canada Indonesia Spain	1,17,673 1,06,129	USE	OF 324 41	CON 1,898 26,185	52 4	RN	1,60,315 1,44,108	10 12 13 14 15
Turkey Italy Russian United F Canada Indonesia Spain Morocco	1,17,673 1,06,129 1,02,362	USE 13 14 15	324 41 220	CON 1,898 26,185 1,810	52 4 54	RN	1,60,315 1,44,108 1,40,390	10 12 13 14 15
Turkey Italy Russian United F Canada Indonesia Spain Morocco Brazil	1,17,673 1,06,129 1,02,362 80,680	USE 13 14 15 16	324 41 220 229	26,185 1,810 3,785	52 4 54 27	RN 5 10 4	1,60,315 1,44,108 1,40,390 1,19,162	10 12 13 14 15 16
Turkey Italy Russian United I Canada Indonesia	1,17,673 1,06,129 1,02,362 80,680 60,228	13 14 15 16 17	324 41 220 229 29	1,898 26,185 1,810 3,785 6,398	52 4 54 27	RN 10 4 11	1,60,315 1,44,108 1,40,390 1,19,162 86,672	10 12 13 14 15 16 17

SHORT DESCRIPTION

80,000 PEOPLE ARE KILLED IN ROAD CRASHES EVERY YEAR WHICH IS 13% OF THE TOTAL FATALITY ALL OVER THE WORLD. (SOURCE MORTH)

NATIONAL HIGHWAYS COMPRISE ONLY 15% OF THE TOTAL LENGTH OF ROADS IN INDIA BUT ACCOUNT FOR 33% OF THE FATALITIES (SOURCE: TRW (TRANSPORT RESEARCH WING), 2019)

FATALITY RATE PER KM OF THE ROAD IS THE HIGHEST ON NH WITH 0.67 DEATHS PER KM ANNUALLY AND THIS FACT SHOULD BE THE GUIDING FACTOR IN FUTURE DESIGN CONSIDERATIONS. (SOURCE TRW)

PART II : FACTORS RESP FOR ACCIDENTS

FACTORS RESP FOR ACCIDENTS AND SEVERITY IN PLAINS

STRACTED DRIVING (USING MOBILE WHILE DRIVING)

PEEDING / RECKLESS DRIVING

RUNK DRIVING

OT WEARING SEAT BELT

AIN/SNOW OR WET ROADS

THOLES AND BAD ROAD CONDITION

REAKING TRAFFIC RULES

AILGATING

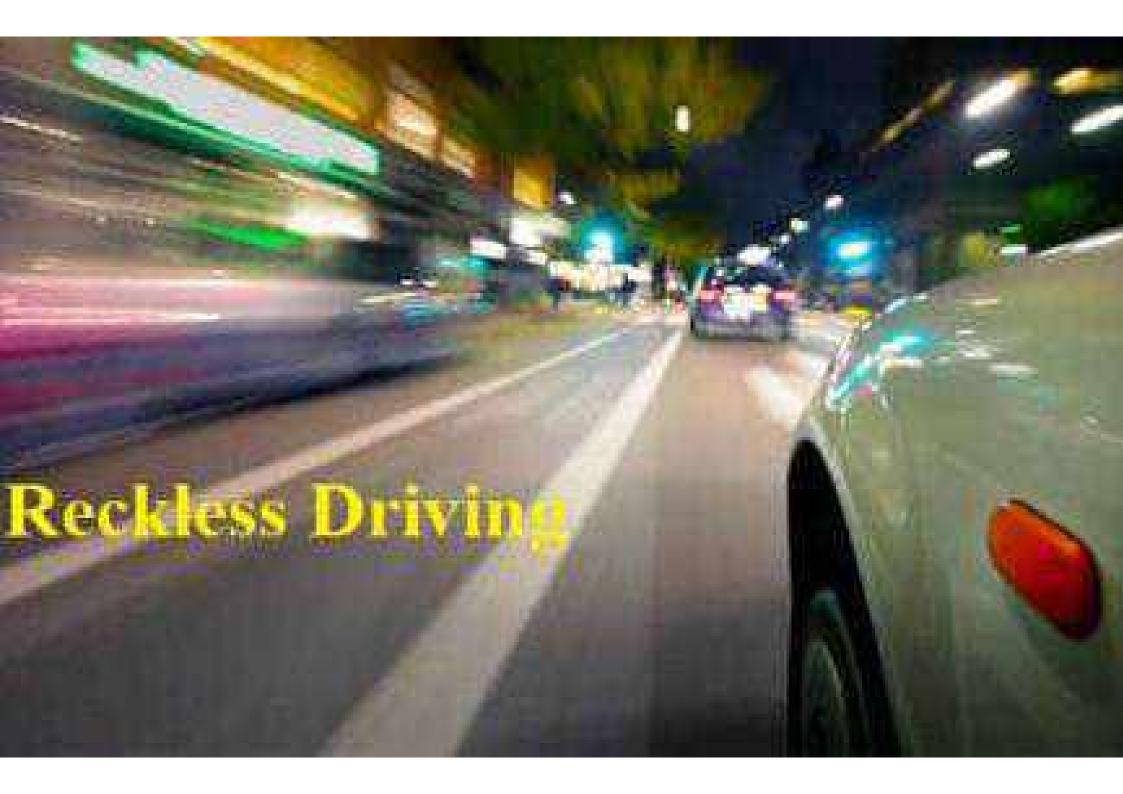
NIMAL INFRINGEMENT





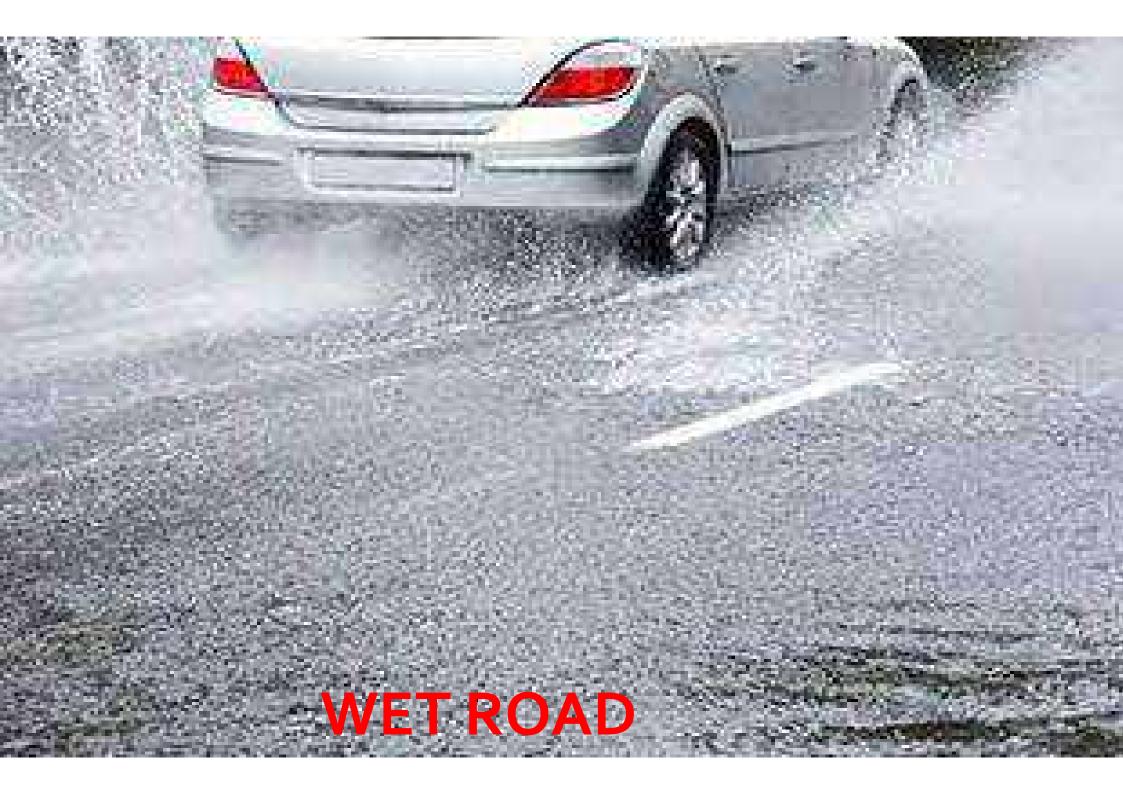
DISTRACTED DRIVING



















RAY ANIMALS ON HIGH SPEED HIGHWAYS

FACTORS RESP FOR ACCIDENTS IN MTNS

MPROPER ROAD GEOMETRY

ESS NUMBER OF PASSING PLACES

LIND TURNS

NAPPROPRIATE GRADIENTS

ET AND SLIPPERY ROADS

OOR LIGHTING

ACK OF ROAD FURNITURE

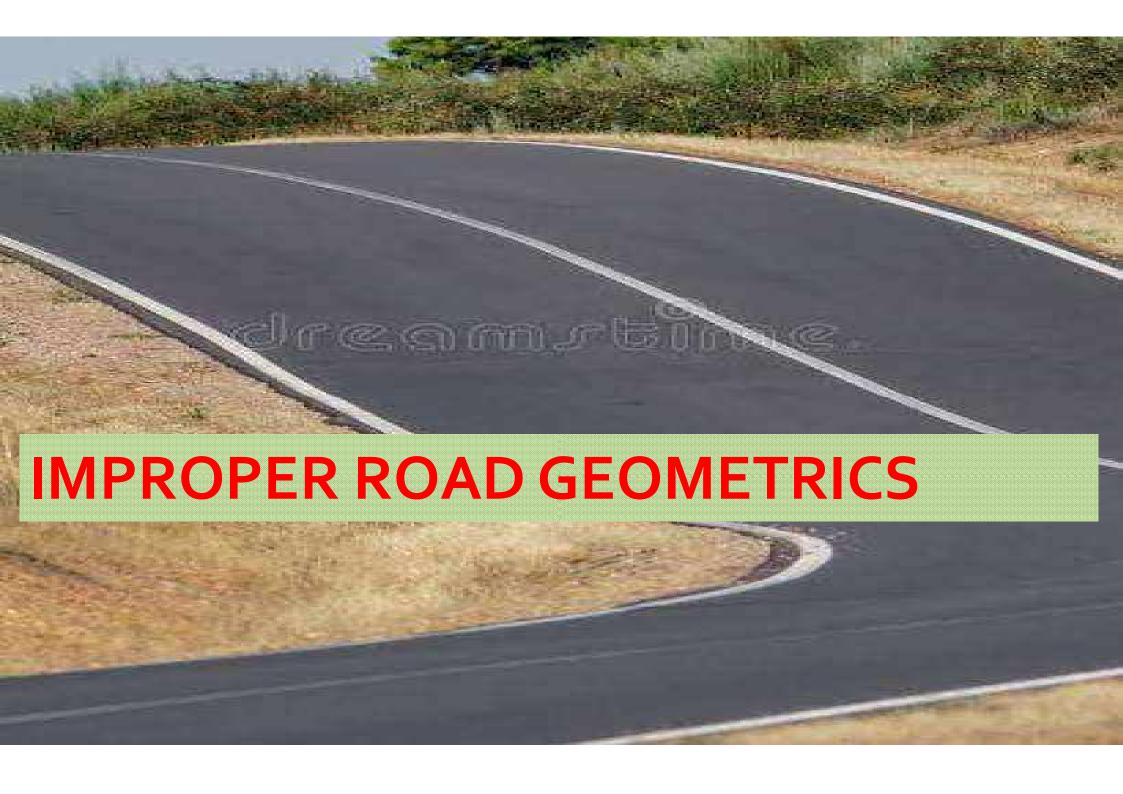
EGLIGENT PARKING

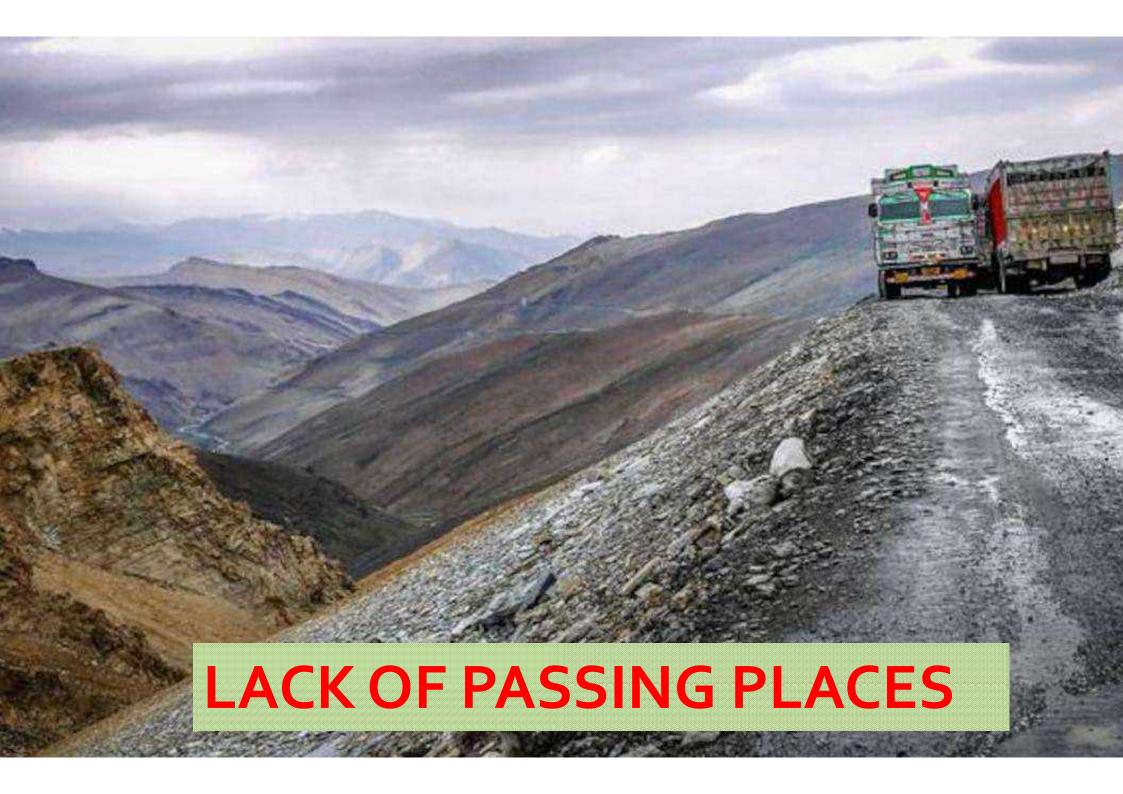
ATURAL OBSTACLES

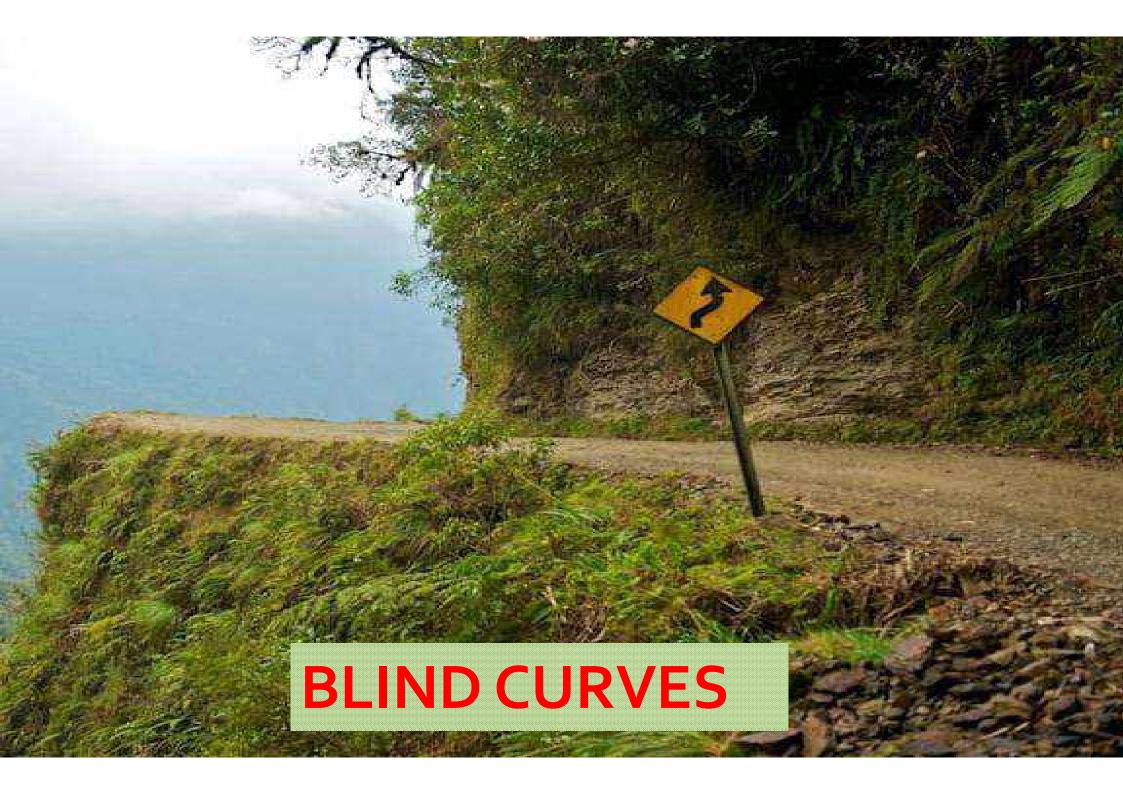
ANDSLIDES/NATURAL DISASTERS

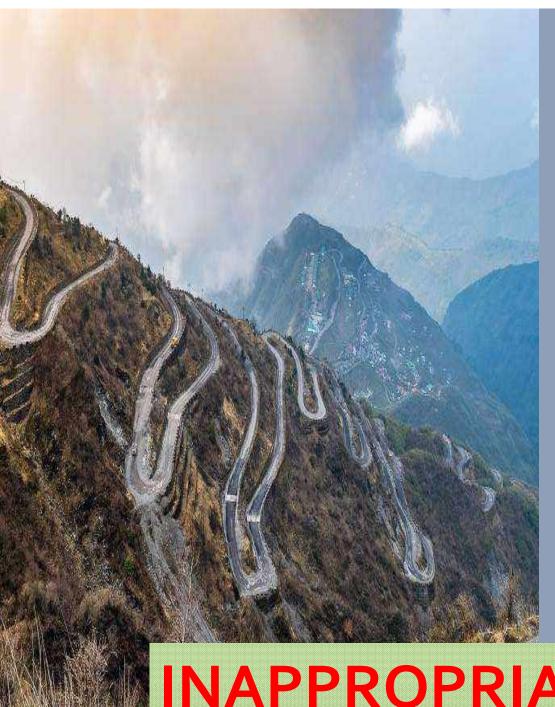




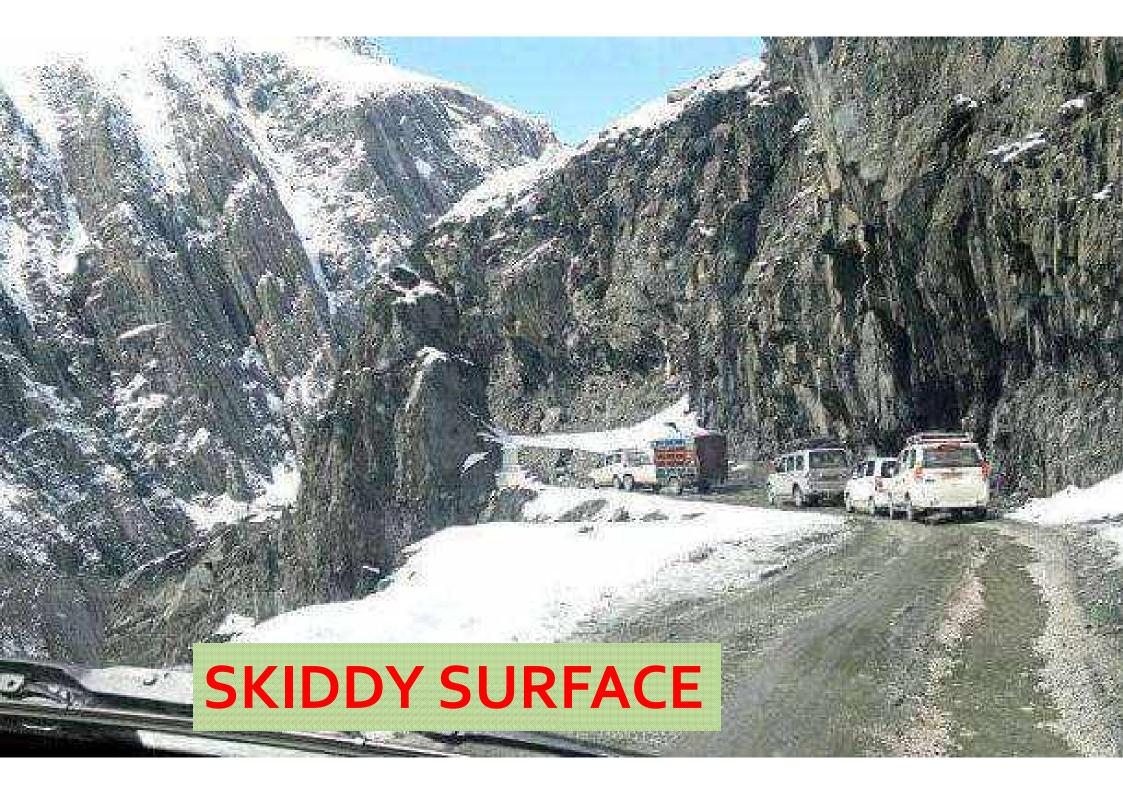


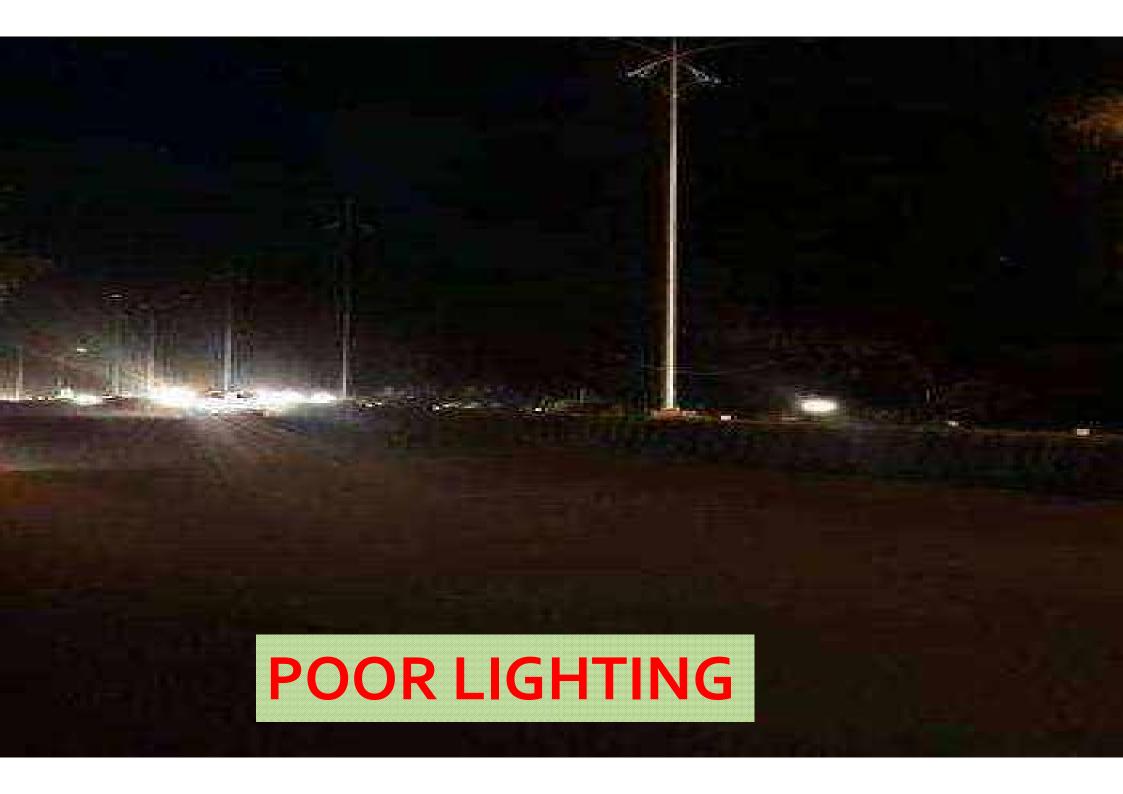






INAPPROPRIATE GRADIENTS





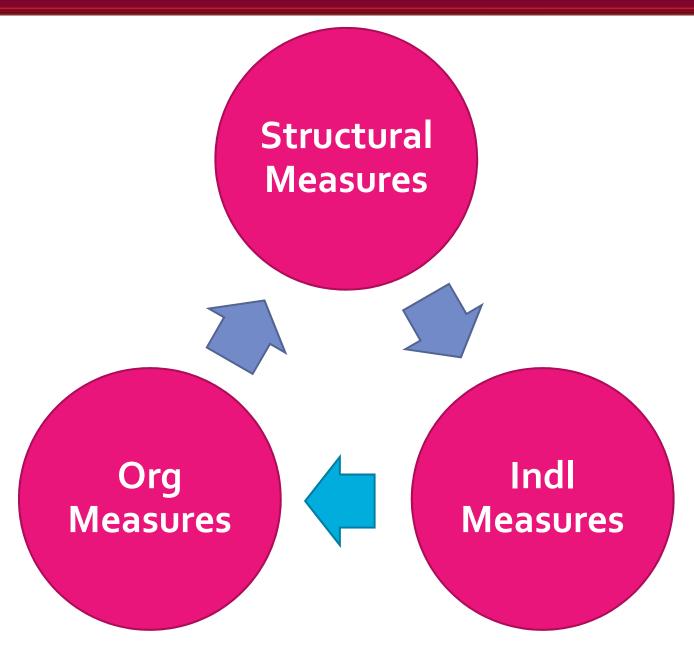




TURAL OBSTACLES-TREES AND OVERHANG

PART III: SOLNS FOR REDN OF ACCIDENTS/SEVERITY

SOLNS FOR REDN OF ACCIDENTS/SEVERITY



STRUCTURAL MEASURES

<u>Design</u>

Good structural integrity

Adequate no of passing places in mountains

Rd gradient to be ensured

Provision of proper cross drainages and drains

Super elevation and camber to be ensured.

Proper rd markings

<u>d Side Furniture</u>

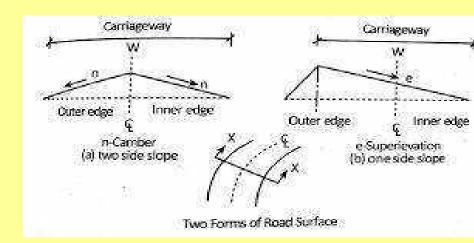
Retroreflective bds

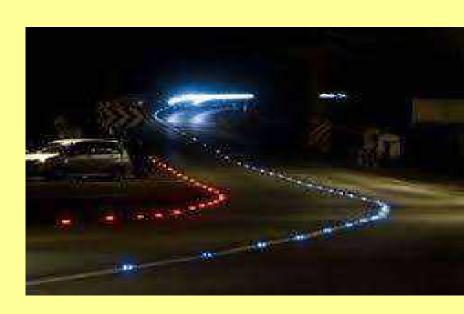
Delineators

Catchy and thought provoking rd signs and jingles

Crash barriers

Stud lights

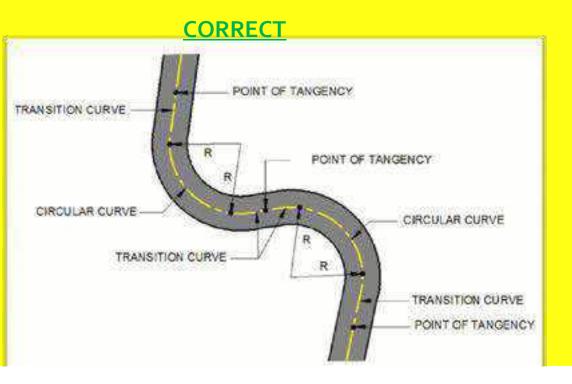


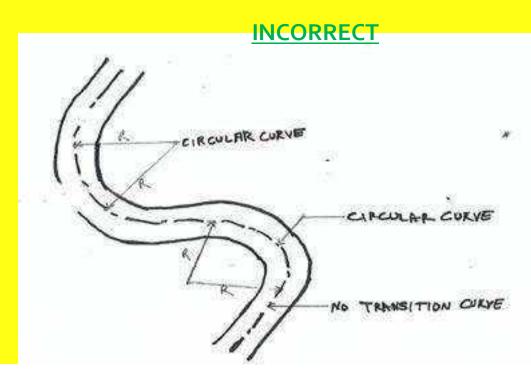


REVERSE CURVES:

REVERSE CURVES ARE NEEDED IN DIFFICULT TERRAIN.

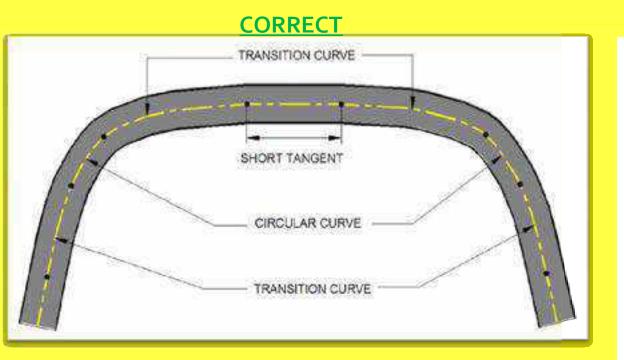
IT SHOULD BE ENSURED THAT THERE IS SUFFICIENT LENGTH BETWEEN THE TWO CURVES FOR INTRODUCTION OF REQUISITE TRANSITION CURVES.



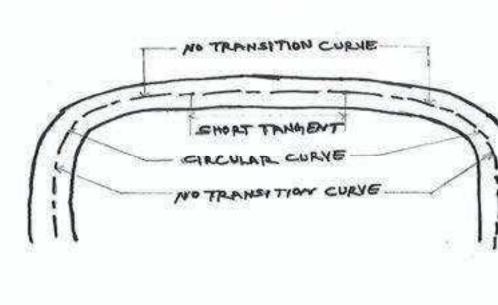


en-Back curves:

- CURVES IN SAME DIRECTION SEPARATED BY SHORT TANGENTS, KNOWN AS BROKEN BACK CURVES.
- SHOULD BE AVOIDED, AS FAR AS POSSIBLE, IN THE INTEREST OF AESTHETICS AND SAFETY AND REPLACED BY A SINGLE CURVE. .

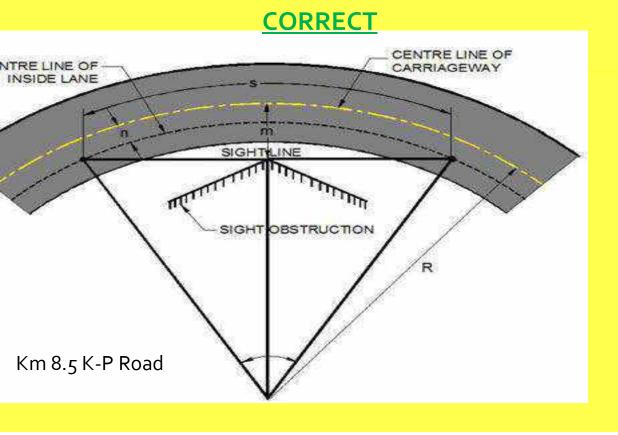


INCORRECT

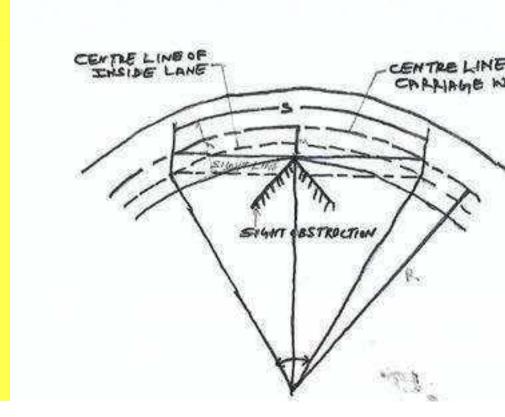


T BACK DISTANCE:

- REQUISITE SIGHT DISTANCE SHOULD BE AVAILABLE TO SIGHT THE INSIDE OF HORIZONTAL CURVES.
- LACK OF VISIBILITY IN THE LATERAL DIRECTION MAY ARISE DUE TO OBSTRUCTION LIKE WALLS CUT, SLOPES, WOODED AREAS, HIGH CROPS etc.



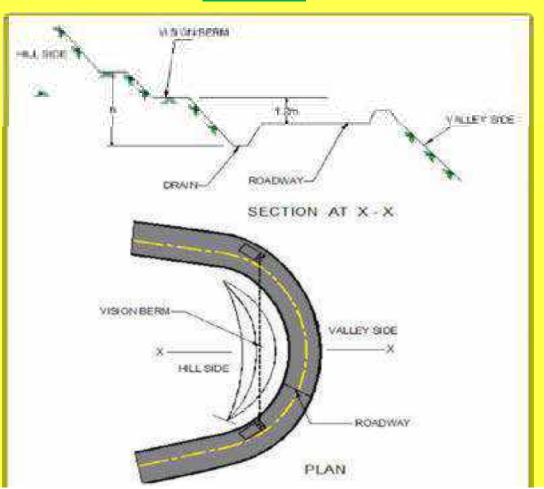
INCORRECT



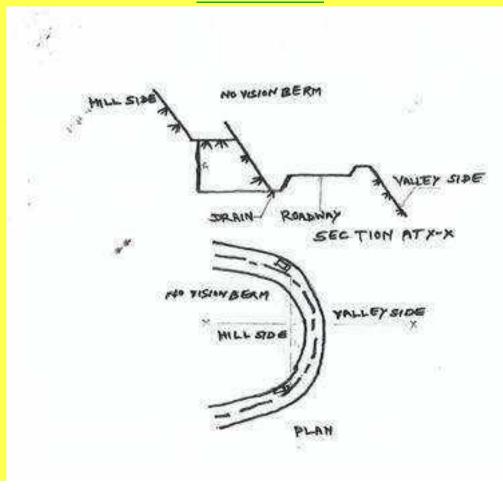
WHERE THERE IS A CUT SLOPE ON THE INSIDE OF THE HORIZONTAL CURVE, THE AVERAGE HEIGHT OF SIGHT LINE CAN BE USED AS AN APPROXIMATION FOR **DECIDING THE EXTENT OF CLEARANCE**.

n Berm:

CORRECT



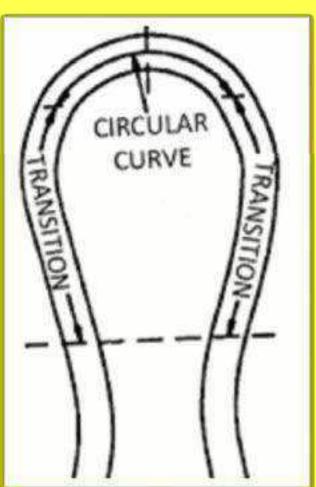
INCORRECT



air-Pin Bends:

AT UNAVOIDABLE CIRCUMSTANCES HAIR-PIN BENDS **MAY BE DESIGNED AS CIRCULAR CURVE WITHTRANSITIONS** OR AS **COMPOUND CIRCULAR CURVES**.

escription						
n Design Speed						
NH/SH	11.5m (Double lane) 9.0m (Single lane)					
MDR/ODR,CI - 9 road	7.5m					
Village Roads	6.5m					
n radius for the inner curve						
n Length of transition Curve						
Maximum	1 in 40 (2.5%)					
Minimum	1 in 200 (0.5%)					
ax Super elevation						
nimum Intervening distance between the successive hair n bends						
	MDR/ODR,CI – 9 road Village Roads Maximum Minimum					

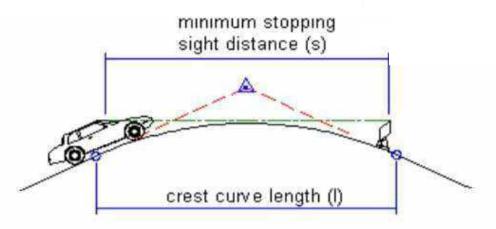


CL 9 RDS-STOPPING SIGHT DISTANCE VERTICAL CURVES

OOTH VERTICAL CURVE SHOULD BE PROVIDED

EASE OFF THE CHANGES IN GRADIENTS FOR THE FAST MOVING VEHICLES.

PER LENGTH TO HAVE SUFFICIENT STOPPING DISTANCE FOR VEHICLES.



ORG MEASURES

ORG MEASURES

lentification of Accident Black Spots

Black spot defined as stretch of NH

- Approx 500 m in Length
- Five rd accidents/10 casualties in three years

5583 Black spots identified in India till 2018



- Short term measures like rumble strips, lighting or sign bds
- Long term measures like road design/elevation, road widening, building of road overbridge, byepass,
 flyover, cattle underpass

Portal being developed for getting status/progress of rectification on real time bas:



BLACKSPOTS ANALYSIS- A SCIENCE IN ITSELF





DIAGNOSIS



FINDING COUNTEREASURES



IMPLEMENTATION



PRIORITIZING



ESTIMATING EFFECTS



FOLLOW UP AND EVALUATION

BLACKSPOTS ANALYSIS- A SCIENCE IN ITSELF

- <u>IDENTIFICATION</u> OF BLACKSPOT PROCEDURE TO LOCATE THOSE SPOTS IN THE ROAD NETWORK THAT ARE PARTICULARLY DANGEROUS.
- DIAGNOSIS PROCESS TO STUDY WHAT ARE THE PROBLEMS, THE ACCIDENT
 CONTRIBUTING FACTORS AND THE DEFICIENCIES FOR EACH OF THE IDENTIFIED BLACK
 SPOTS.
- <u>FINDING COUNTERMEASURES</u> METHODICAL ANALYSIS TO DESIGN SUITABLE COUNTERMEASURES FOR EACH BLACKSPOT, BASED ON ACTUAL PROBLEM AND DEFICIENCIES.
- ESTIMATING EFFECTS IS THE PROCESS TO ESTIMATE THE SAFETY EFFECTS AND COST OF SUITABLE COUNTERMEASURE

BLACKSPOTS ANALYSIS- A SCIENCE IN ITSELF

- PRIORITIZING IMPLIES FINDING THE BEST ACTION PLAN, ACCORDING TO SOME DEFINED CRITIERIA AND BASED ON ESTIMATED EFFECTS AND COST AS WELL AS BUDGET RESTRICTION.
- IMPLEMENTATION IS THE ACTUAL REALISATION OF THE PRIORITIZED MEASURE INCLUDED IN THE ACTION PLAN.
- .FOLLOW UP AND EVALUATION THE LAST AND VERY IMPORTANT STEP, AIM IS
 TO ASSESS THE ACTUAL RESULTS.

POSSIBLE CONTRIBUTING FACTORS FOR ACCIDENTS AT BLACK SPOT AREAS

OAD WIDTH

DIVIDED/UNDIVIDED GRADIENT

SHOULDER

VERGE

MEDIAN AND

OPENINGS

FOOTPATH

KERBS, RAMPS

DRAINAGE OR

COMBINATION OF

ABOVE FACTORS

ABSENCE OF SIGNS AND MARKINGS

BAD LIGHTING LIKE

- INAPPROPRIATE TYPE OF LIGHT AT IMPROPER HEIGHT WITH LESS
- INTENSITY OR ELSE WITH
- OBSTRUCTION

PRESENCE OF ROADSIDE FRICTION LIKE

- POLES, POSTS, ETC.
- HORIZONTAL RAILINGS
- ROCKS, AND LANDSLIDES
- CONSTRUCTION MATERIAL

PARKED VEHICLES

- ON-STREET PARKING,
- OFF-STREET PARKING, AND
- LOADING FACILITIES
- BUS STOPS AND
- TAXI STAND

POSSIBLE CONTRIBUTING FACTORS FOR ACCIDENTS AT BLACK SPOT AREAS

D SURFACE

YPE

OUGHNESS

RICTION

RSECTION

YPE

UMBER OF LEGS HANNELISATION

URN LANES

URNING RADIUS

PEDESTRIANS & CYCLISTS

- NUMBERS AND TYPES CROSSING FACILITIES
- PEDESTRIAN BARRIERS
- PEDESTRIAN REFUGES

SPEED

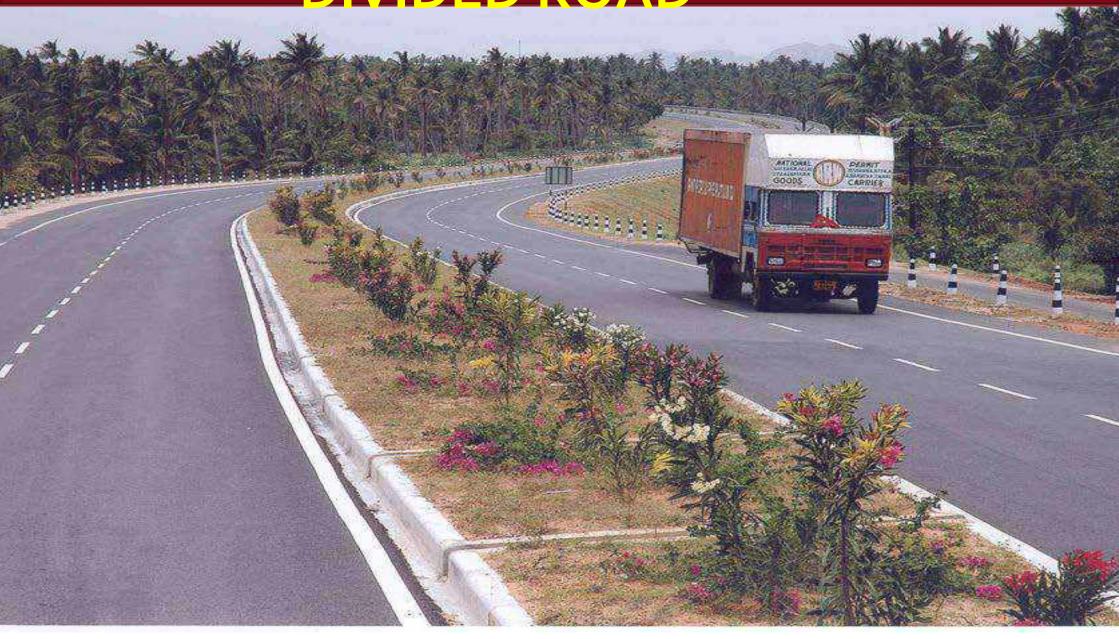
HAZARDOUS DRIVING

- SPEED LIMIT
- LATE BRAKING

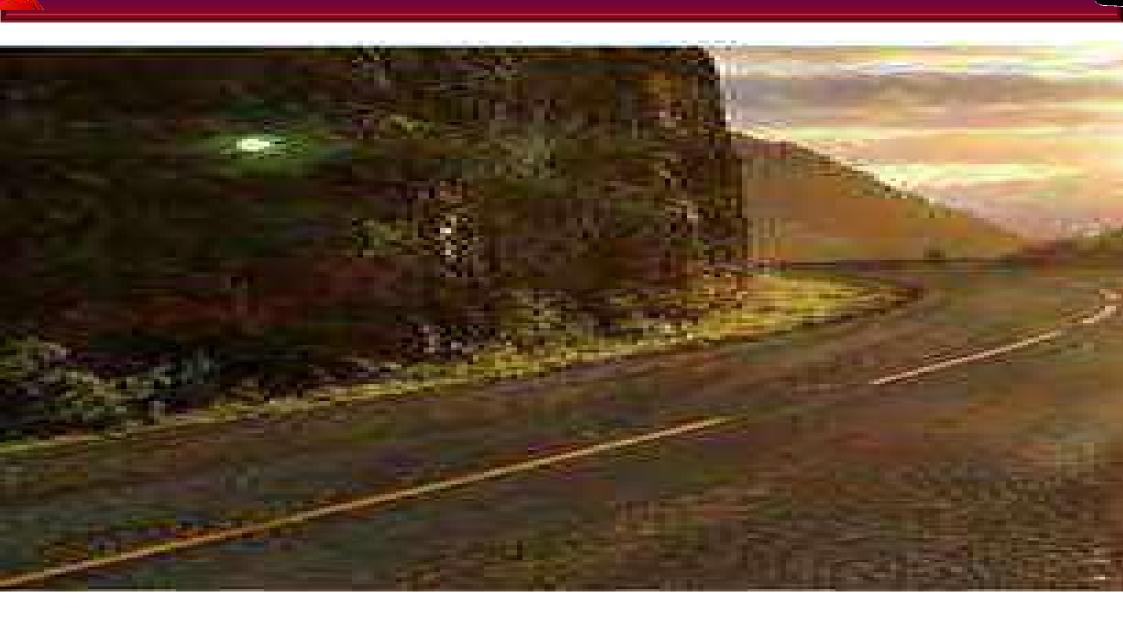
ENVIRONMENT

- STRAY ANIMALS
- SCHOOL CHILDR
- HEAVY VEHICLES
- AMBIENT NOISE
- INGRESS/EGRES PROBLEMS

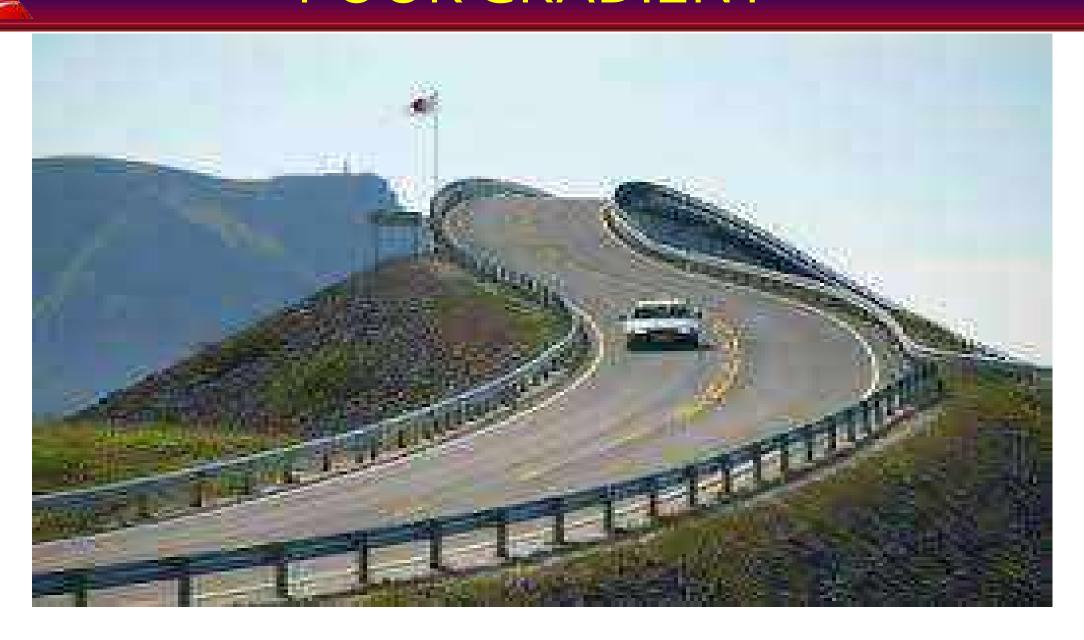
DIVIDED ROAD



UNDIVIDED ROADWIDTH



POOR GRADIENT



IMPROPER SHOULDER



DILAPITED FOOT-PATH



IDEAL KERB



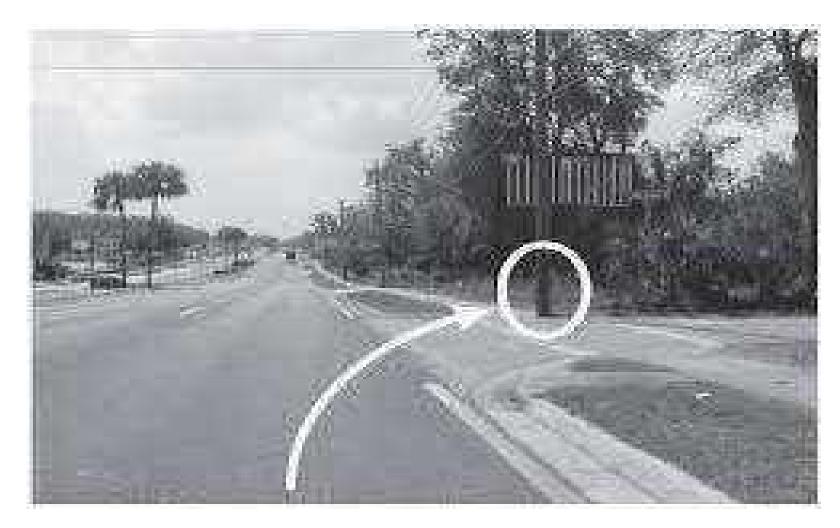
POOR DRAINAGE



BAD LIGHTING







PRESENCE OF POLES AND POSTS



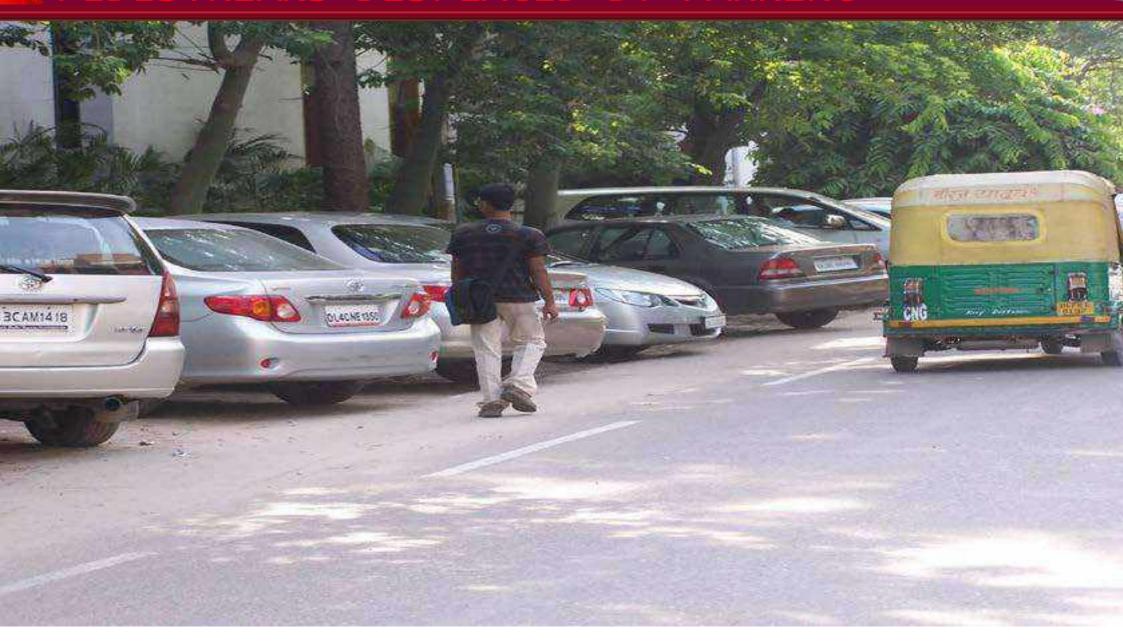


LANDSLIDES

OBSTRUCTION BY CONSTRUCTION MATERIAL



PEDESTRIANS DISPLACED BY PARKING



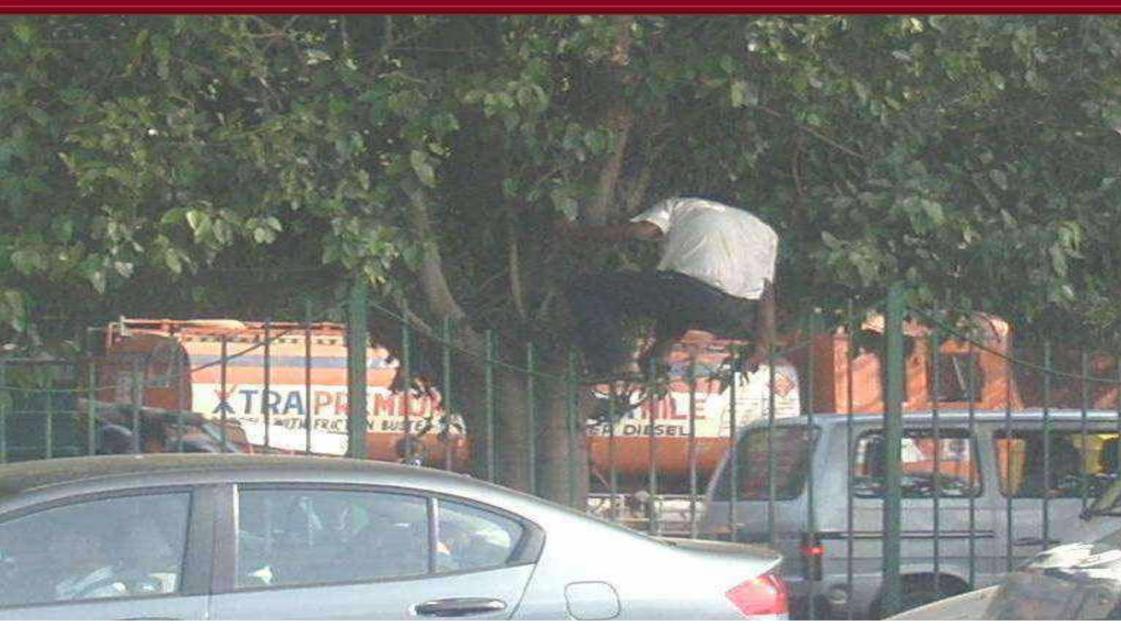
BUS STOP USED AS A RICKSHAW STAND



STRAY ANIMALS



PEDESTRIANS CROSSING OVER MEDIAN



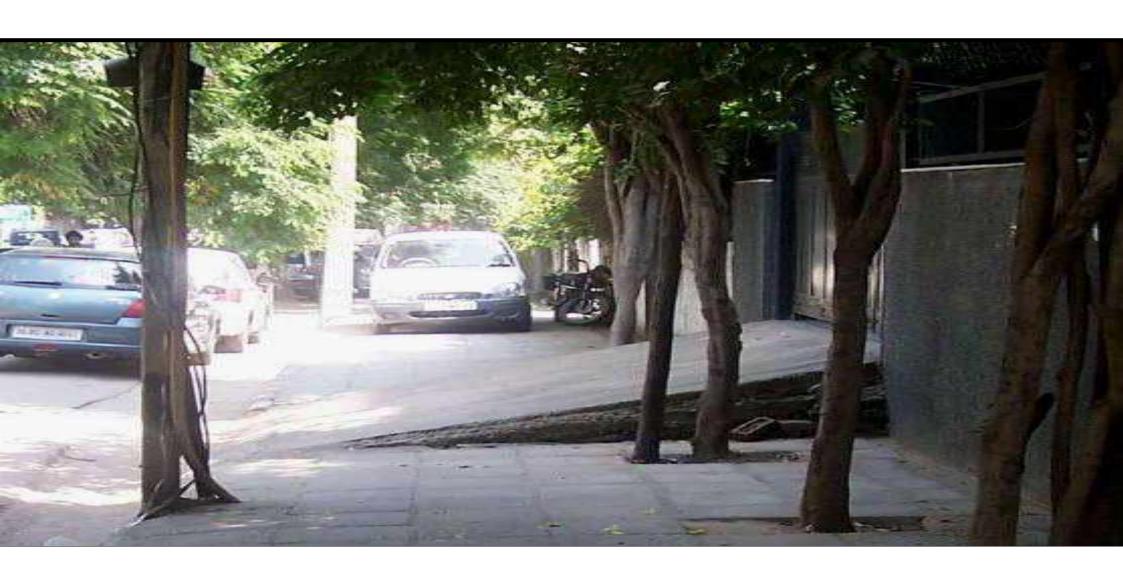
HAZARDOUS PRACTICES ON ROADS



PEDESREIAN FACILITY



FOOTPATH ENCROACHED BY TREES



FOOTPATH SUDDENLY DISAPPEARS



OVERLOADED VEHICLE

ORG MEASURES(CONTD)

river Trg

Institute of Driving Training and Research (IDTR) established to set standards and monitor driver training and issue driving license based on an objective scientific process of testing skills Est of Regional Driving Trg Center (RDTC) and DTC at district level



egular Road Safety Audits

ublic Awareness Campaigns

Spread awareness through TV, films, radio spots and print media

Conduct of road safety awareness wksp at state

level and in Schools



ORG MEASURES (CONTD)

st and installation of tfc signals at all reqd juntions

romoting Intelligent Transport System (ITS)

E- challan

M- parivahan

lacing of accidented vehs at prominent locs

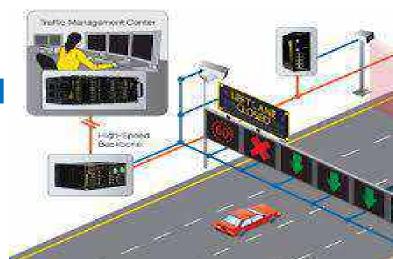
with caution bds

ccess management to control entry and

exit points

peed cameras





INDL MEASURES

INDL MEASURES

DMPULSARY USE OF HELMETS

SAGE OF VEHS WITH FOLLOWING FEATURES

AUTOMATIC HEAD LIGHT ON

AIR BAGS

VEH BASED TRACKING DEVICE

ANTI LOCKING BRAKING SYSTEM AND ELECTRONIC STABILITY CONTROL

AINT AND UPKEEP OF VEHS

DRINKING AND DRIVING

DLLOWING PROPER PARKING NORMS









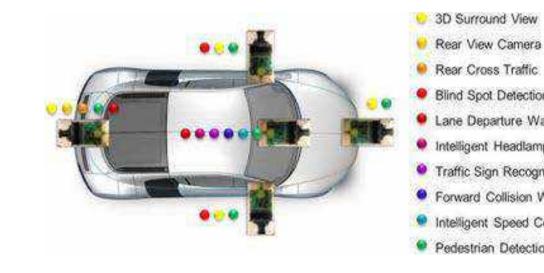


PART IV: MODERN/INNOVATIVE MEASURES FOR REDN OF ACCIDENTS/SEVERITY

MODERN MEASURES FOR REDN OF ACCIDENTS/SEVERITY

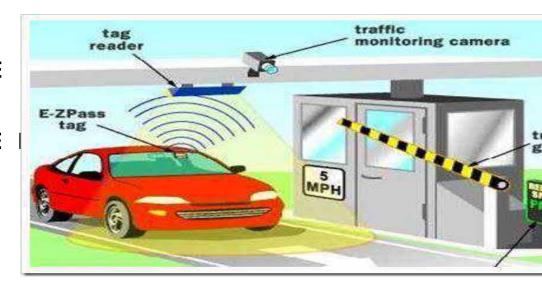
CHINE VISION

- ABILITY OF MACHINES TO GATHER AND
 INTERPRET VISUAL DATA.
- IMDT IDEN MISSING/ DAMAGED VEH PARTS
- CAPABLE OF IDEN OBJECTS IN ENVIRONMENT
 SUCH AS PEDESTRIAN, TRAFFIC LIGHTS



XPERT SYSTEMS

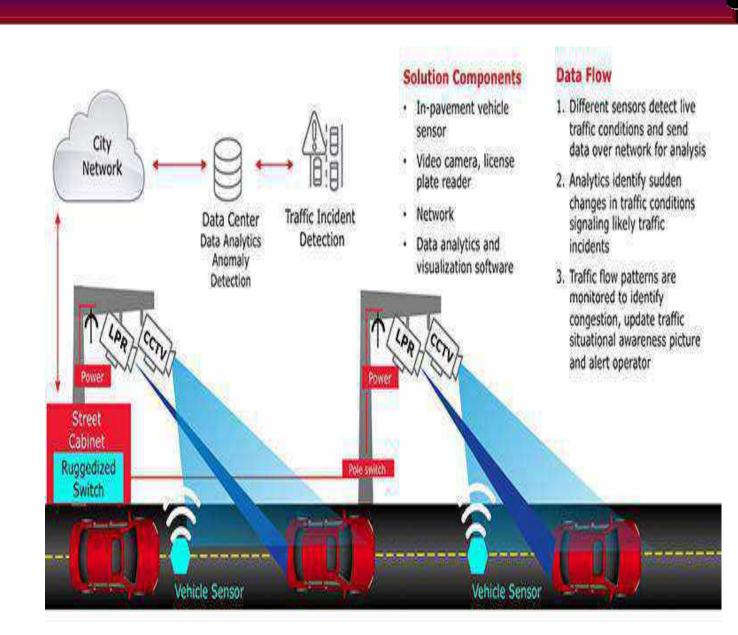
- CAN REDUCE JAMS BY MONITORING REAL TIME TRAFFIC DENSITY
- USE DATA TO DIVIDE TRAFFIC TO ALTERNATE
- ENHANCE TRACEABILITY



MODERN MEASURES FOR REDN OF ACCIDENTS/SEVERITY

RAFFIC INCIDENT DETECTION

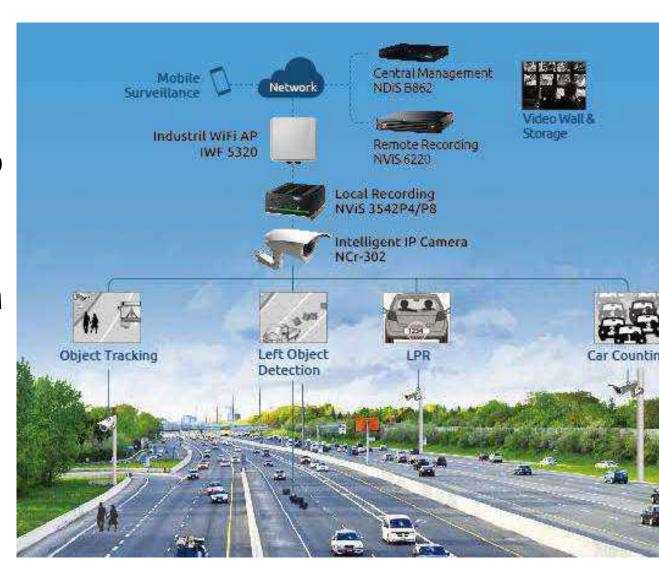
- DETECTS TRAFFIC INCIDENT BY USING AN IMPROVE AUTOMATIC INCIDENT DETECTION
- WARNING SYSTEM TRIGGERED BY SUDDEN CHANGES IN SPEED
- INFO PROVIDED TO DRIVERS
 THROUGH VARIABLE MESSAGE
 BDS, SUCCESSFUL IN
 REDUCING CONGESTION DUE
 TO INCIDENT



MODERN MEASURES FOR REDN OF ACCIDENTS/SEVERITY

ITELLIGENT HIGHWAYS

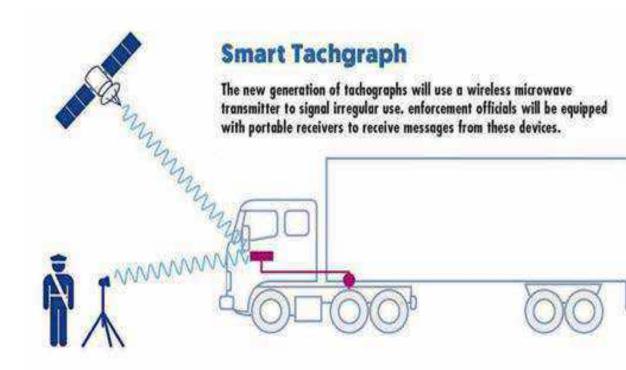
- DRIVER INFO TECHNOLOGY
 - ELECTRONIC ROUTE PLG
 - RADIO BROADCASTING OF INFO
 - ON BOARD VEHICLE ROUTING
 ADVICE
 - ON BOARD NAVIGATION SYSTEM
- TRAFFIC CONTROL TECHNOLOGY
 - SIGNAL SYNC PROGRAMS
 - FREEWAY AND CORRIDOR
 CONTROLS
- VEH CONTROL TECHNOLOGY
 - AUTO VEH IDENTIFICATION
 - RFMOTF VFH CONTROL



MODERN MEASURES FOR REDN OF ACCIDENTS/SEVERITY

ECTRONIC TACHOGRAPH AND IN VEHICLES TECTORS

- MOTION SENSOR AND CONTROLLING
 UNIT INSTALLED IN TRUCKS AND
 BUSES
- MONITOR DRIVING PATTERN OF HEAVY VEHS
- DRASTICALLY REDUCE FRAUD
- TO STUDY EVENTS WHICH LED TO ACCIDENT
- PROVIDES SUPPORTING EVIDENCE IN CASE OF ACCIDENT



OW IN THE DARK MARKINGS

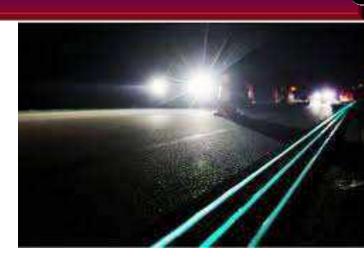
- SOLAR ABSORBING LUMINESCENT PAINT THAT CHARGES ALL DAY IN THE SUN
- GLOWS FOR ABOUT EIGHT HOURS WHEN IT GETS DARK
- CAPABILITY TO MAKE RDS SAFER, WHILE ELIMINATING

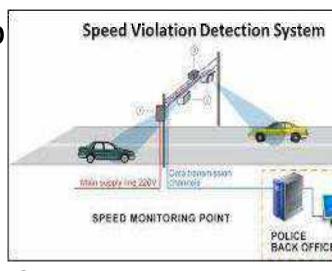
THE NEED FOR STREET LIGHTS IN SOME AREAS, ALSO REDUCING ENERGY USE

REDUCING ENERGY USE

TOMATED SPEED DETECTORS

- MEASURES SPOT SPEED
- TAKE PICTURE WHEN VEHICLE IS DETECTED OVER SPEEDING
- INTEGRATED SYSTEM TO GENERATE E- CHALLAN





PEDESTRIAN CROSSING

- APPEARS FLAT TO PEDESTRIAN WHILE 3D TO DRI
- MORE STRIKING THAN 2D LINES
- FORCES DRIVER TO SLOW DOWN



FE SAVING STICKERS

- RAISES AWARENESS IN RESIDENTIAL AREAS
- SEEKS ATTENTION OF MOTORISTS
- PROVIDES SAFETY TO CHILDREN PLAYING IN THE



HAVIOURAL TRAINING

- PROVIDES EARLY RD SAFETY EDUCATION
- EARLY INTERVENTION THROUGH A MULTIMEDIA APPROACH
 WILL HELP DEVELOP POSITIVE ATTITUDE AND BEHAVIOUR
 TOWARDS RD SAFETY



NART TRAFFIC LIGHTS

- AUTOMATICALLY EXTENDS THE GREEN PEDESTRIAN CROSS
 PHASE WHEN MANY PEOPLE ARE WAITING
- CAMERAS "SEE" A CRITICAL MASS OF PEDESTRIANS, THEY
 WILL THEN TRANSMIT THIS BIT OF INFORMATION TO A CONTROL
 CENTER THAT WILL KEEP THE "WALK" SIGN LIT FOR LONGER
 PERIODS OF TIME



BLE BARRIERS

- PROTECTION

 HI-TECH BARRIERS HELP ENSURE ROAD USER
- THE WIRED BARRIERS CAN STRETCH AND
 BETTER ABSORB THE FORCE OF A VEHICLE
 CRASHING INTO THEM
- HELP PREVENT THE CAR FROM MOVING INTO THE WAY OF ONCOMING TRAFFIC

RIABLE MESSAGE BDS

- LED BOARDS THAT DISPLAY INFORMATION THAT COMMUTERS, DRIVERS AND PEDESTRIANS NEED TO KNOW
- UPDATE ROAD USERS ABOUT REAL-TIME ROAD AND TRAFFIC CONDITIONS LIKE CONGESTION, ACCIDENTS





ARMONIC RADAR SYSTEM

- TO WARN THE ONSET OF HAZARDOUS SITUATION
- OVER RIDE DRIVERS CONTROL AND MODERATE COLLISION IMPACT



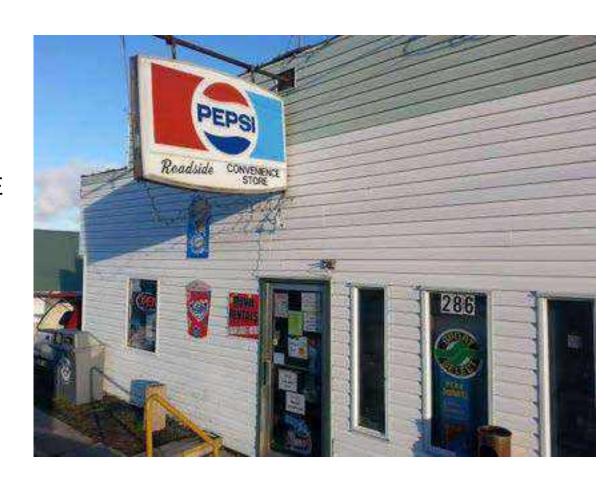
IE SAFETY EDGE

- SHAPING THE EDGE OF THE PAVEMENT WITH A 30-DEGREE LIP THAT WARNS DRIVERS FROM DROPPING OFF THE ROAD IF THEY DRIFT ON THE WAY
- PROVIDES A DURABLE AND ROBUST SAFETY FEATURE THAT ALLOWS DRIVERS TO RE-ENTER THE ROADWAY SAFELY
- HELPS STABILIZE AND REDIRECT VEHS AS THEY ENTER THE ROADWAY



PUBLIC CONVENIANCE

AT EVERY 50 / 100 KM P UBLIC CONVENIENCE SHOULD BE AVAILABE, FOR DRIVER'S PERFORMANCE OF ABLUTIONS



4E-FEATURED DISCIPLINE

ENFORCEMENT

EDUCATION

ENGINEERING

EMERGENCY CARE

ENFORCEMENT

THE MOTOR VEHICLE ACT, IF ENFORCED CORRECTLY, WOULD CURB TRAFFIC VIOLATIONS BY DRIVERS.

THE ENFORCEMENT OF THE RULES IS THE RESPONSIBILITY OF THE GOVERNMENT.

ENFORCEMENT

STRICT ENFORCEMENT OF SPEED LIMIT.

RULE FOR DRIVING LICENSE SHOULD BE MADE MORE FOOLPROOF.

HELMET SHOULD BE MADE COMPULSORY.

THE PRACTICE OF KEEPING TRAFFIC SIGNAL OF DURING NIGHT SHOULD BE DISCONTINUED.

REFRESHMENT ROOM SHOULD BE AVAILABLE AT EVERY 50/100 KM ON THE IIGHWAY.

ENFORCEMENT

ONE WAY TRAFFIC SHOULD BE IMPLEMENTED AS FAR AS POSSIBLE.

MEDIANS SHOULD BE MARKED ON THE ROAD OF TWO WAY TRAFFIC.

ZEBRA CROSSING SHOULD BE PROVIDED ON ROAD CROSSING FOR PEDESTRIANS AND ALSO ON SPEED BREAKER.

ANIMALS SHOULD BE ELIMINATED COMPLETELY FROM THE ROAD.

SIZE AND SHAPE OF HUMP SHOULD BE PROPERLY DESIGNED AS PER STANDARD CODE.

OBSTRUCTION ON ROAD SIDE DUE TO CONSTRUCTION MATERIAL SHOULD BE ELIMINATED COMPLETELY.

ONLY HEALTHY VEHICLES SHOULD BE ALLOWED ON ROAD.

EDUCATION

TRAFFIC EDUCATION IS DEFINED AS ANY KIND OF FORMAL OR INFORM EDUCATION THAT IS AIMED AT LEARNING AND IMPROVING THE KNOWLEDGE, SKILLS AND INSIGHT THAT ARE NECESSARY FOR SAITE REFIC PARTICIPATION.

AWARENESS IS GENERATED THROUGH VARIOUS ROAD SAFE' CAMPAIGN. THE GOVERNMENT HAS BEEN UNDERTAKING VARIOU PUBLICITY THROOUGH TV AND OTHER PROFESSIONAL AGENCIES.

TRAFFIC PARK SHOULD BE ESTABLISHED AT EVERY BRTF LEVEL OF OU ORGANISATION.

EDUCATION

- Safety awareness should be imbibed from childhood
- Riders should maintain a safe distance while travelling
- Reflectors should be fixed on front and back of every vehicle.
- Riders should maintain a safe distance while travelling.
- Vehicle should not be parked on roadside.
- Vehicles should be slowed down near junction or inhabitant areas.

EMERGENCY CARE

THE SCHEME ENTAILS PROVIDING CRANES AND AMBULANCES FOR INFORMER AND RESCUE MEASURES IN THE AFTERMATH ACCIDENTS BY WAY OF EVACUATING ROAD ACCIDENTS VICTIMS NEAREST MEDICAL AID CENTRE AND FOR CLEARING TACCIDENT SITE.

RECOMMENDATIONS FOR IMDT CONSIDERATION

NFORCEMENT-NO/NEGLIGIBLE ENFORCEMENT FORCE IN DRWARD AREAS WHERE BRO IS WORKING-EST OF POLICE FATIONS

DUCATION- CATCH THE CHILDREN YOUNG-EST TRAFFIC ARKS IN THE AOR OF EACH TASK FORCE.



NGINEERING-DPR PREP WITH UTMOST INVOLVENT; ROAD JRNITURE RAEs; SLOPE STABILISATION WORKS WHEREVER EQD; REDUCTION OF CROWNS; REGULAR ROAD AUDITS AND DRRECTIVE MEASURES

MERGENCY CARE-CREATE AN EMERGENCY CARE GRID IN DRWARD AREAS WITH THE HELP OF Osc WKSP, RMOs AND FNAs-GET CIV ADM INVOLVED-PUBLICIZE LOCS ON EBSITES FOR EMERGENCY ASSISTANCE

