

# THE NSSR ROAD SAFETY/SUPPORT PROGRAMME



Road Safety / Support is a mainline National Safety and Social Responsibility

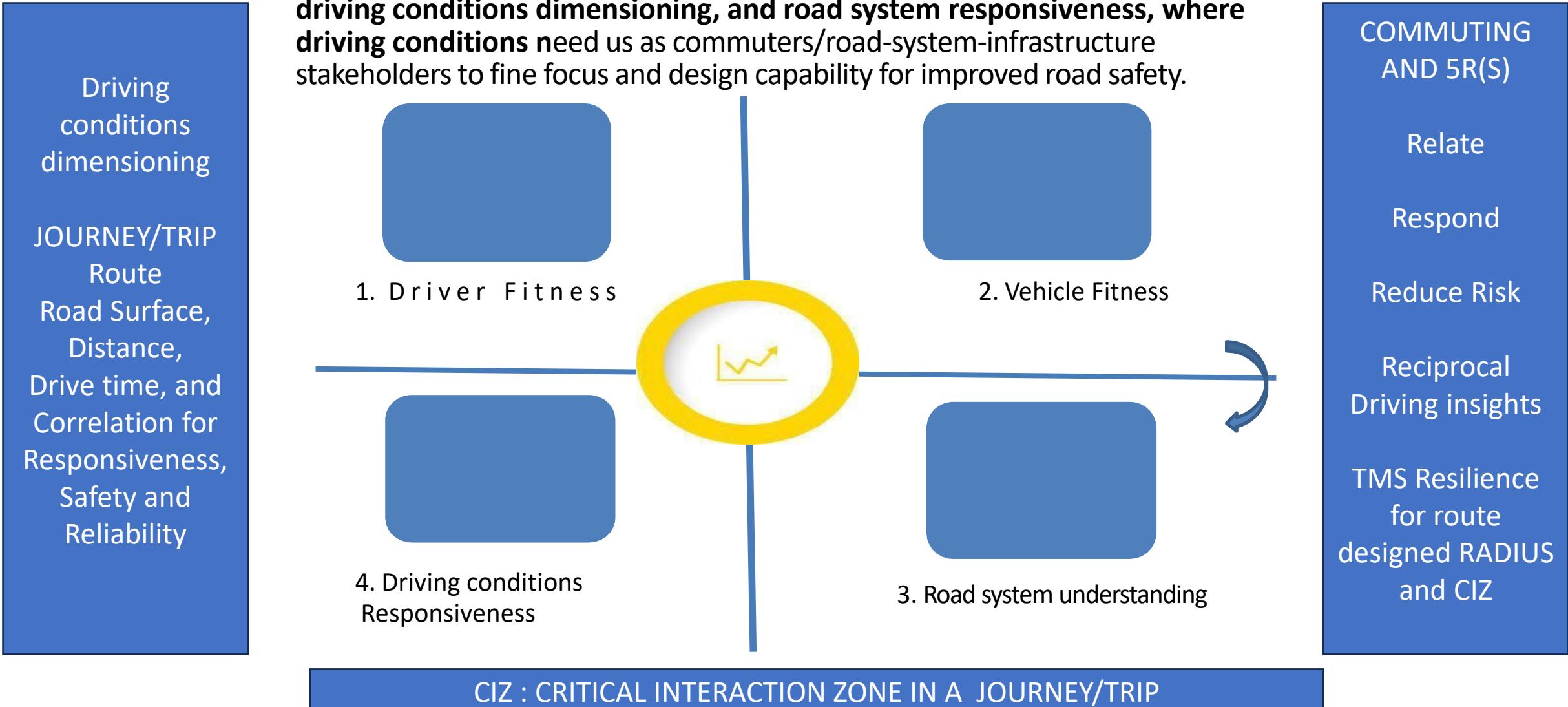
MONTHLY  
BULLETIN

**DASHBOARDING ROAD SAFETY / SUPPORT  
BY  
VENKATRAM K S, AOEC 2026-2027**

DEC  
2026

# Dashboarding Road Safety/Support

- AOEC finds that safety while commuting on road, depends upon the automobile manufacturer's quality assurance, driver fitness, vehicle fitness, driving conditions dimensioning, and road system responsiveness, where driving conditions need us as commuters/road-system-infrastructure stakeholders to fine focus and design capability for improved road safety.



# Dashboarding Road Safety/Support

- AOEC finds that instrumentally, Dashboarding Road Safety / Support (DRSS) projects must
- define a TMS workflow for accentuating
- 1. Driver Fitness
- 2. Vehicle Fitness
- 3. Road system understanding
- 4. Alpha Assistance
- 5. 5R(s) SMART(ness) for a safer journey

CRITICAL  
INTERACTION  
DETERMINERS

ROAD SURFACE  
COVERINGS,  
LIGHT / SHADE  
ISSUES,  
CURVES,  
MEANDERS,  
INCLINES,  
BOTTLENECKS,  
CLOSE PROXIMITY  
REGIONS

SMART(ness) :  
SPECIFIC CRITICAL  
INTERACTION FOR  
MEETING NEED WITH  
APPLICABLE INSIGHT  
RESPONSE AND  
TEMPERAMENT



CRITICAL  
INTERACTIONS

EXPECTED LICENSE,  
PROBABLE  
INCIDENCE/HAZARD/  
RISK/RULE  
COMPLIANCE,  
PRECISE DRIVING,  
ENDURANCE  
DRIVING,  
INTERCEPTING  
CURVES,  
MANEUVERING  
OPTIONS,  
RESPONSE,  
RAPID RESPONSE,  
UNDERSTANDING  
SERVICE ANYWHERE  
ANYHOW  
ASSISTANCE,  
EMERGENCY  
RESPONSE / SPECIFIC  
NEEDS

# Dashboarding Road Safety/Support

- DRSS SMART(ness) for a journey/trip and virtual POINT SLOPE INTERCEPTION can make it simpler to identify the tangible correlation between driving conditions dimensioning of a route/road system/road with a DRSS Workflow to help and improve safer commuting
- This DRSS Workflow plus NSSR RS programme teamwork can
- Record-or-review,
- Relate,
- Reduce risk,
- Reciprocate response and
- Design Resilience for any journey/trip and its dimensions like the
- road surface,
- distance,
- drive time,
- commute reliably factors, where there is universal or brand specific service centre-assessable part-lifetime mitigation, condition monitoring, trafficable fault tolerance/preventive and corrective action, where this DRSS Workflow development can help a NSSR participant define/use a NSSR RS index for a journey/trip/TMS radius, where the index can be simply (1), (2), (3), (4) or combinations of them

The NSSR project recommends the use of different assistants to help commuters improve their experience

# Dashboarding Road Safety/Support

- **(1) NRRS-I1:** where this workflow will need to address History of interaction & Foreseeable needs and 5R(s)
- **(2) NRRS- I2:** = this workflow will need to address Critical Interaction Zone needs and 5R(s)
- **(3) NRRS- I3:** this workflow will need to address Road/Route dynamics and 5R(s)
- **(4 NRRS- I4:** this workflow will need to address Advanced safetyneeds and 5R(s)
  - (like air quality, unregulated climate intolerance, temperature/humidity, road system or road or terrain safety, with more than an expected driving style for commuting with safety, reliability & timing and with more than programmed gear changes, or braking or drive distribution between the front and rear wheels as expected in 4WD modes)
  - The bulletin looks at the different assistants that can help a commuter's 5R(s). The editions that follow will delve into details of each of them to help a commuter/stakeholder ramp up scores in a dashboard

# Dashboarding Road Safety/Support

- The DRSS Data Analysis Channel Building for an **automobile manufacturer's quality assurance, driver fitness, vehicle fitness, driving conditions dimensioning, and road system responsiveness** for deteriorating or changing driving conditions dimensioning of the needed SMART(ness for safer commuting will need to
- **1. Improve Sensitization and Awareness for Road Safety**
- **2. Develop issue/feedback/data channelization for safer commuting**
- **3. Provide handbooks/guides/planners for such planning/ incorporation**
- **4. Promote quality for road safety and infrastructure via NSSR guided methodologies like the training programmes/monthly bulletins & quizzes/dashboarding of experience or incidences**

DRSS Lifecycle and  
NSSR RS Teamwork for  
the DRSS Workflows

DRSS Data Analytics  
and  
Drive Performance  
SMART(ness)

Accentuated  
to enable  
The Extra  
Mile

# Road safety and Accountability Dashboard for the Year 2026

- Certificate of Excellence YES / NO / NOT SATISFACTORY
- Traffic issues or incidences YES / NO / NOT SATISFACTORY
- Compliance with FMVSS standards YES / NO / NOT SATISFACTORY
- Onboarding of NSSR Road Safety objectives YES / NO / NOT SATISFACTORY
- Upgradability of NSSR Road Infrastructure objectives YES / NO / NOT SATISFACTORY
- Traffic Engineering Assets planning YES / NO / NOT SATISFACTORY
- Traffic Engineering Defects Liability YES / NO / NOT SATISFACTORY
- Improved on-road assistance YES / NO / NOT SATISFACTORY
- Cost of Quality /Cost of Poor-Quality Project Assistance YES / NO / NOT SATISFACTORY
- Complexity for Road Safety and Accountability YES / NO / NOT SATISFACTORY

Year:



**STRATEGIC  
PLANNING**



**TACTICAL  
PLANNING**

**OPERATIONAL  
PLANNING**

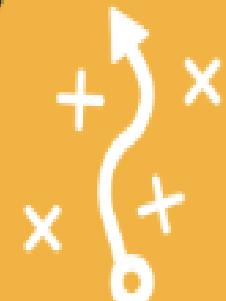


# Road safety and Accountability Dashboard for the Year/Season 1

- Certificate of Excellence YES / NO / NOT SATISFACTORY
- Traffic issues or incidences YES / NO / NOT SATISFACTORY
- Compliance with FMVSS standards YES / NO / NOT SATISFACTORY
- Onboarding of NSSR Road Safety objectives YES / NO / NOT SATISFACTORY
- Upgradability of NSSR Road Infrastructure objectives YES / NO / NOT SATISFACTORY
- Traffic Engineering Assets planning YES / NO / NOT SATISFACTORY
- Traffic Engineering Defects Liability YES / NO / NOT SATISFACTORY
- Improved on-road assistance YES / NO / NOT SATISFACTORY
- Cost of Quality /Cost of Poor-Quality Project Assistance YES / NO / NOT SATISFACTORY
- Complexity for Road Safety and Accountability YES / NO / NOT SATISFACTORY



## STRATEGIC PLANNING



## TACTICAL PLANNING



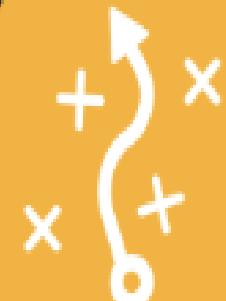
## OPERATIONAL PLANNING

# Road safety and Accountability Dashboard for the Year/Season 2

- Certificate of Excellence YES / NO / NOT SATISFACTORY
- Traffic issues or incidences YES / NO / NOT SATISFACTORY
- Compliance with FMVSS standards YES / NO / NOT SATISFACTORY
- Onboarding of NSSR Road Safety objectives YES / NO / NOT SATISFACTORY
- Upgradability of NSSR Road Infrastructure objectives YES / NO / NOT SATISFACTORY
- Traffic Engineering Assets planning YES / NO / NOT SATISFACTORY
- Traffic Engineering Defects Liability YES / NO / NOT SATISFACTORY
- Improved on-road assistance YES / NO / NOT SATISFACTORY
- Cost of Quality /Cost of Poor-Quality Project Assistance YES / NO / NOT SATISFACTORY
- Complexity for Road Safety and Accountability YES / NO / NOT SATISFACTORY



## STRATEGIC PLANNING



## TACTICAL PLANNING



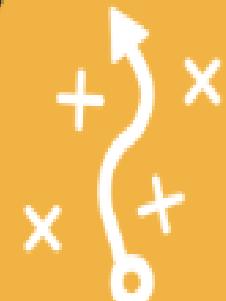
## OPERATIONAL PLANNING

# Road safety and Accountability Dashboard for the Year/Season 3

- Certificate of Excellence YES / NO / NOT SATISFACTORY
- Traffic issues or incidences YES / NO / NOT SATISFACTORY
- Compliance with FMVSS standards YES / NO / NOT SATISFACTORY
- Onboarding of NSSR Road Safety objectives YES / NO / NOT SATISFACTORY
- Upgradability of NSSR Road Infrastructure objectives YES / NO / NOT SATISFACTORY
- Traffic Engineering Assets planning YES / NO / NOT SATISFACTORY
- Traffic Engineering Defects Liability YES / NO / NOT SATISFACTORY
- Improved on-road assistance YES / NO / NOT SATISFACTORY
- Cost of Quality /Cost of Poor-Quality Project Assistance YES / NO / NOT SATISFACTORY
- Complexity for Road Safety and Accountability YES / NO / NOT SATISFACTORY



## STRATEGIC PLANNING



## TACTICAL PLANNING



## OPERATIONAL PLANNING

# Road safety and Accountability Dashboard for the Year/Season 4

- Certificate of Excellence YES / NO / NOT SATISFACTORY
- Traffic issues or incidences YES / NO / NOT SATISFACTORY
- Compliance with FMVSS standards YES / NO / NOT SATISFACTORY
- Onboarding of NSSR Road Safety objectives YES / NO / NOT SATISFACTORY
- Upgradability of NSSR Road Infrastructure objectives YES / NO / NOT SATISFACTORY
- Traffic Engineering Assets planning YES / NO / NOT SATISFACTORY
- Traffic Engineering Defects Liability YES / NO / NOT SATISFACTORY
- Improved on-road assistance YES / NO / NOT SATISFACTORY
- Cost of Quality /Cost of Poor-Quality Project Assistance YES / NO / NOT SATISFACTORY
- Complexity for Road Safety and Accountability YES / NO / NOT SATISFACTORY



## STRATEGIC PLANNING

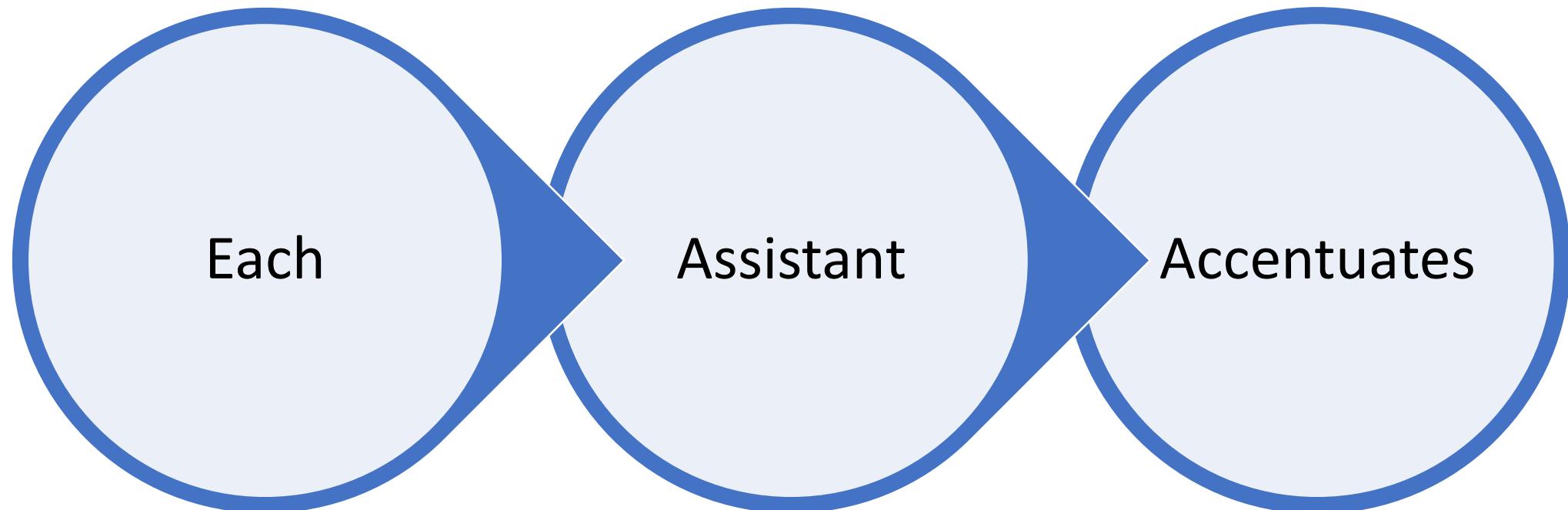


## TACTICAL PLANNING

## OPERATIONAL PLANNING



## DRSS Assistants – Fire & Emergency Services Profiling



# NOC related details for a building

## KSFES - Portal Application

The Application for No Objection Certificate page provides the user with the following information:

- **Building Type as per NBC:** Select the building type as per NBC.
- **Building Usage Purpose:** Select the purpose of building usage.
- **Application for extension to an existing building or new proposal?:** Specifies whether the application is for extension to an existing building or new proposal.
  - **Extension to existing building:** Choose this option, if the application is for extension to an existing building.
  - **New Proposal:** Choose this option, if the application is for new proposal.
- **If Extension to an existing building, provide details for existing building:** If Extension to an existing building, enter the details as follows. This option will be available only if you have chosen the Extension to existing building option.
  - **Height (m):** Enter the height of the existing building in meters.
  - **No. of Floors:** Enter the number of floors
  - **Total Built up Area (sqm):** Enter the total built up area in square meter.
- **Whether Sanction obtained from Local Authority (BBMP,BDA etc) to construct the building?:** Choose the option which specifies whether the sanction is obtained from local authority to construct the building. This option will be available only if you have chosen the Extension to existing building option.

NOC Blocks of Buildings with Strategic-Tactical-Operational intelligence Infrastructure and/or Data Management influencers

# NOC related details for a building

- **Site Details:** Here user can enter the details of the site/plot.
  - **Survey Number:** Enter the survey number of the plot.
  - **Survey Aksharabaga:** Enter the survey aksharabaga.
  - **Hissa No.:** Enter the Hissa number of the plot.
  - **Land Extent:** Enter the extended land use.
  - **Unit of Measurement:** Select the unit in which the plot is to be measured.
  - **Taluk:** Enter the taluk in which the project is proposed.
  - **Hobli:** Enter the hobli to which the plot belongs.
  - **Village:** Enter the name of the village.
  - **Ward Number:** Enter the number of the ward.
  - **Street:** Enter the name of the street.
  - **Pincode:** Enter the pincode of the city.
  - **PID (If Available):** Enter the PID code if available.
  - **Add:** Click on this button to add the site/plot details entered.
- **Location Coordinates of the site:** Here user can provide the latitude and longitude of the site.
  - **Latitude:** Enter the latitude of the site.
  - **Longitude:** Enter the longitude of the site.

NOC Blocks of  
Buildings with  
Strategic-Tactical-  
Operational  
intelligence  
Infrastructure  
and/or Data  
Management  
influencers

# NOC related details for a building

## KSFES - Portal Application

- **Chakbandi:** Specifies the chakbandi details of the plot.
  - **North:** Enter the name of the person who owns the north side of the land.
  - **South:** Enter the name of the person who owns the south side of the land.
  - **West:** Enter the name of the person who owns the west side of the plot.
  - **East:** Enter the name of the person who owns the east side of the plot.
  - **Add:** Click on this button to add the chakbandi details entered.
- **Entry Road Type:** Select the type of entry road to the site.
- **Entry Road Name/Identification:** Enter the name of entry road.
- **Entry Road Width (m):** Enter the width of the entry road in meter.
- **Exit Road Type:** Select the type of exit road from the site.
- **Exit Road Name:** Enter the name of the exit road.
- **Exit Road Width:** Enter the width of the exit road in meter.

NOC Blocks of Buildings with Strategic-Tactical-Operational intelligence Infrastructure and/or Data Management influencers

# NOC related details for a building

## KSFES - Portal Application

- **Setback as shown in Plan (m):** Here provide the setback details of the plot as shown in plan.
  - **Front:** Enter the setback area in front of the proposed building.
  - **Rear:** Enter the setback area in the rear side of the proposed building.
  - **Left:** Enter the setback area in the left side of the proposed building.
  - **Right:** Enter the setback area in the right side of the proposed building.
- **No. of Floors:** Enter the number of floors in the proposed building.
- **Height of the Building (m):** Enter the height of the building in meter.
- **Total Built-Up Area (sqm):** Enter the total built up area of the building in square meter.
- **Provided Parking for Two Wheelers:** Enter the number of two wheelers for which parking is provided.
- **Provided Parking for Four Wheelers:** Enter the number of four wheelers for which parking is provided.

NOC Blocks of Buildings with Strategic-Tactical-Operational intelligence Infrastructure and/or Data Management influencers

# NOC related details for a building

## KSFES - Portal Application

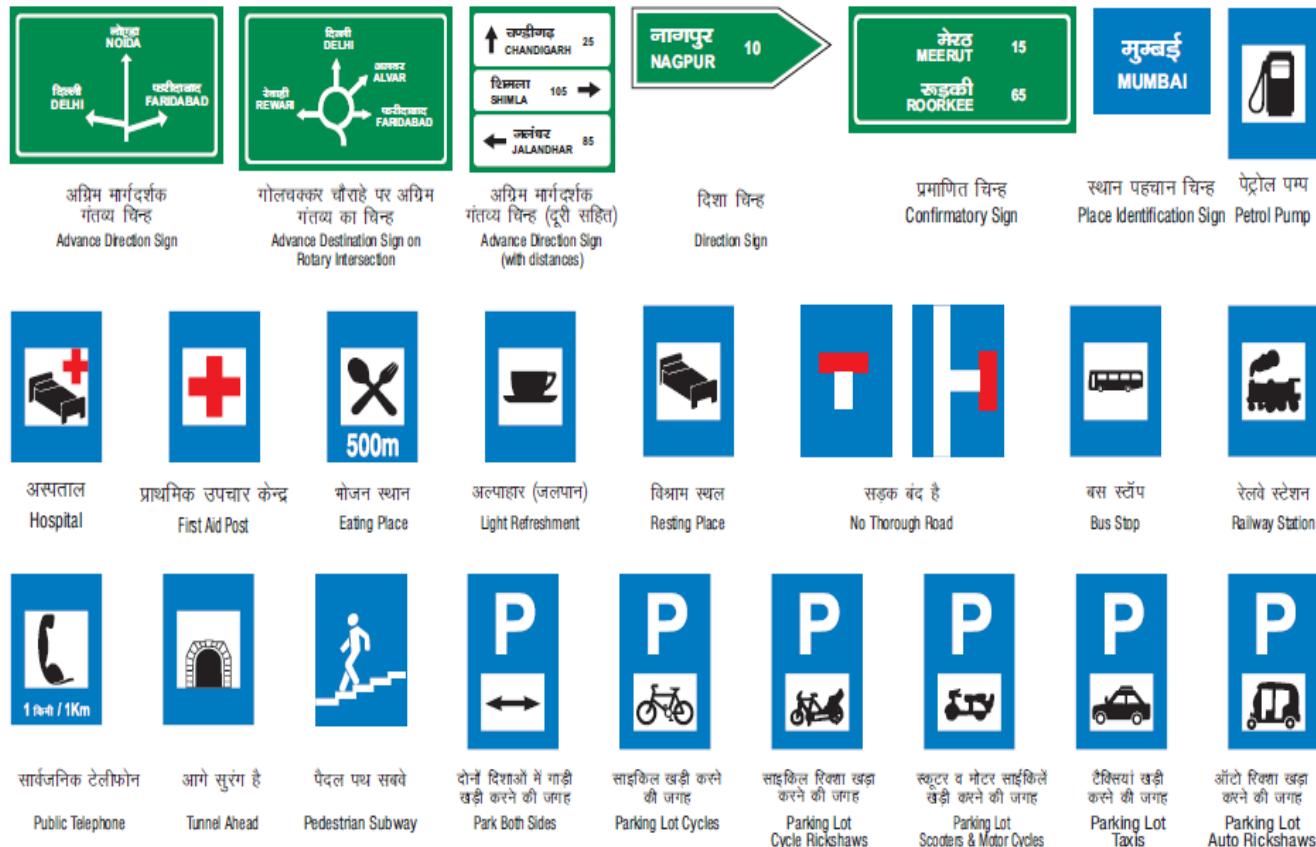
- **FAR Details (Proposed):** Specifies the proposed floor area ratio details.
  - **Permissible:** Enter the permissible FAR.
  - **Premium:** Enter the premium FAR.
  - **TDR:** Enter proposed Transfer of Development Rights details.
- **Site Condition:** Specifies the existing site condition.
  - **Water:** Here provide the source of water.
    - **Well:** Choose this option, if the source of water is well.
    - **BWSSB:** Choose this option, if the source of water is Bangalore Water Supply and Sewerage Board.
  - **Power:** Here provide the source of power.
    - **KPTCL:** Choose this option, if the source of power is Karnataka Power Transmission Corporation Limited.
  - **Electric line HT/LT:** Select whether electric line facility available or not.
  - **Future Connected Analytics (FCA) related active deployment** of Planned Road signs/Relatedly Live Screens/Billboards/ Hoardings/Signages, where these views or insights can guide any FESA service or SAR experience

NOC Blocks of Buildings with Strategic-Tactical-Operational intelligence Infrastructure and/or Data Management influencers

# Fire & Emergency Services and influencing Civic Amenities / Links

18

- **No objection Certificate (NOC) Culture to help NSSR RS/FESA**



## Valuable examples of Civic Amenities

- ❑ Traffic Control / Traffic Police Stations
- ❑ Pedestrian Subway/ Subway
- ❑ Railway Station
- ❑ Metro lanes / Tram track
- ❑ Bus stop
- ❑ First aid and Ambulance Post
- ❑ Hospital
- ❑ Connected Socio-Economic-Need and Incidence mitigation facilities
- ❑ Connected Vehicle Maintenance & Repair Facilities
- ❑ Connected Vehicle Spare parts suppliers
- ❑ Connected Cluster of suppliers
- ❑ Connected Power and Electricity management / Water supply/ Sanitation
- ❑ Connected Lean Waste management
- ❑ Place identification sign, Confirmatory sign
- ❑ Direction sign, Advance Direction sign

# Fire & Emergency Services and influencing factors of a road system/route

- PIEV - Perception time, Intellection time, Emotion time, Volition (Final action) time
- Perception time - time required to perceive a situation or object
- Intellection time - time required to compare different thoughts, regroup thoughts and different points of understanding, register new “information, thoughts or sensations”
- Emotion time - time required to compare “emotional responses, sensations or disturbances”
- Volition time - time required for final action
- Proposed Traffic Engineering (TE) Designed Synergy time – Viewpoint time required to evaluate issues or incidence resolution / management for a RADIUS OF COVERAGE
- PIEV\* time required depends upon aspects such as
  - 1. Physical characteristics of the driver
  - 2. Psychological factors influencing or affecting the driver, savings & safety interests
  - 3. Environmental conditions, influencers, situations, road & traffic health
  - 4. Purpose of trip, trip planning,
  - 5. Type and speed of vehicle, condition and adherence to norms
  - 6. New NSSR Theme for Road Safety and choices for traffic health
  - 7. (Occupation based or Trends based) Self-assessment for fitness, drive guidance
  - 8. Availability of feedback systems      9. Editioning of RADIUS of coverage for TE Viewpoint Synergy





# *Disaster/Impactful Events on road*

## **Background for afflicted or impaired co-passengers:**

The afflicted person is affected by personal limitations or differences in the ability to do things like a normally able person.

In this condition, the person will be helped by assistive systems that instrument/improve

- Learning ability
- Training ability
- Self-developed ability/reasoning/competency
- Continual ownership to be innovative, accountable, and self-managed to mitigate **common-for-affliction** impact and setback with or without benchmarked role model or Six sigma **assistance** level specific Physically Assistive Infrastructure, Physically Assistive Technology/Systems/ Equipment/Products/Processes or Digitally Assistive Infrastructure Technology/Systems/ Equipment/Products/Processes, Alpha Assistance (Help) Cards/Processes/Desks



# *Disaster/Impactful Events on road*

## **Background for afflicted co-passengers:**

The person with or without any affliction needs to learn or incorporate responsiveness to deal with limitations that affect the ability to do things or work with productivity/skills/competence. It is recommended to subscribe to or develop a Commuter Safety programme and project that helps Alpha Assistive solutions for people while travelling, where the focus could be on the following:.

Alpha Assistive System for brain impairment

Notes:

Alpha Assistive System for vision impairment

Notes:

Alpha Assistive System for speech impairment

Notes

Alpha Assistive System for hearing impairment

Notes:

Alpha Assistive System for multiple sense organ impairment

Notes:

Strategy for coping up (for example the Alpha Assistance (Help) Card/Process/Desk

Notes:



# Disaster/Impactful Events on road

PHOTO

## Strategy for coping up - Alpha Assistance (Help) Card

Date:

Version:

Name:

Age:

Gender:

Type of impairment (Tick as applicable): Brain/Vision/Hearing/Speech/Multiple sense organs/Handicapped

Address:

Landmark to locate address:

Name of contactable parent/guardian:

Phone/Mobile:

Name of contactable caretaker:

Phone/Mobile:

Emergency contact for (any on-road incidence):

Phone/Mobile:



# Disaster/Impactful Events on road



## **Alpha Assistance (Help) Card**

**Date:**

**Version:**

**Name:**

**Age:**

**Gender:**

### **Alpha Assistance Processes (factors to be considered):**

#### **1. Perception ability for help/response/needful action (Tick as applicable):**

Poor/ Fair/ Medium score/ Good

#### **2. Intelligence level for help/response/needful action (Tick as applicable):**

Poor/ Fair/ Medium score/ Good

#### **3. Emotional makeup/quotient for help/response/needful action (Tick as applicable);**

Poor/ Fair/ Medium score/ Good

#### **4. Volition (Self enabled Action) level for help/response/needful action (Tick as applicable);**

Poor/ Fair/ Medium score/ Good



# Disaster/Impactful Events on road

PHOTO

## Alpha Assistance (Help) Card

Date:

Name:

Languages understood:

Interpretation for scores:

Version:

Age:

Gender:

Sign Language:

PIEV Ability	Poor	Fair	Medium	Good
Self awareness	x	✓	✓	✓
Social interaction	x	✓	✓	✓
Response to new/ unmanaged environment / Weather conditions	x	x	x	✓
Recognition level for people/vehicle/immediate kin/ co-passengers	x	x	✓	✓
Led by available assistance and instruction	x	✓	x	✓
Led by peer / mirrored behaviour	✓	✓	✓	✓
Led by known person's communication	✓	✓	✓	✓



# Disaster/Impactful Events on road



## **Alpha Assistance (Help) Card**

**Date:**

**Version:**

**Name:**

**Age:**

**Gender:**

### **Alpha Assistance Processes (needed):**

#### **1. Assistance procedure in Emergency (Tick as applicable):**

Ask me/ Refer Help Card/ Call parent/guardian/ Call contact/ Contact Alpha Assistance Desk

#### **2. Assistance procedure in Vehicle Breakdown (Tick as applicable):**

Ask me/ Refer Help Card/ Call parent/guardian/ Call contact/ Contact Alpha Assistance Desk

#### **3. Assistance procedure in Due Relief for any situation (Tick as applicable):**

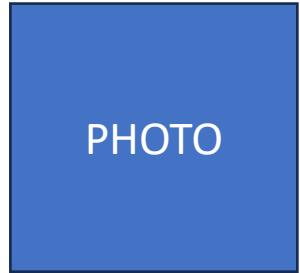
Ask me/ Refer Help Card/ Call parent/guardian/ Call contact/ Contact Alpha Assistance Desk

#### **4. Assistance via Alpha Assistance Desk (Tick as applicable):**

Responsive to instructions/ Trained to respond/Under training/Not under training/Cannot be trained



# Disaster/Impactful Events on road



## **Alpha Assistance (Help) Card**

**Date:**

**Version:**

**Name:**

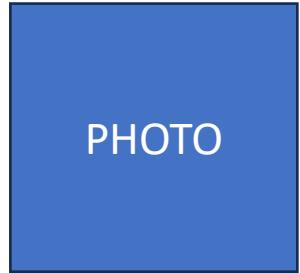
**Age:**

**Gender:**

**Additional Alpha Assistance Processes (notes):**



# Disaster/Impactful Events on road



## **Alpha Assistance (Help) Card**

**Date:**

**Version:**

**Name:**

**Age:**

**Gender:**

**Alpha Assistance Desk (notes):**

**Registered (Tick as applicable):** Yes/No/Not applicable

**Expectation for PIEV Ability (Tick as applicable):**

Self-ability/Responsive/Needs Guidance/Needs Careful interaction/ Not known

**Trained for PIEV Ability (Tick as applicable):**

Via Self-development programmes/Via Family Services/ Via Awareness & Advocacy programmes/ Not trained

**Part of any Alpha Assistance R&D Project (Tick as applicable):**

Yes/No/Not applicable

Details:

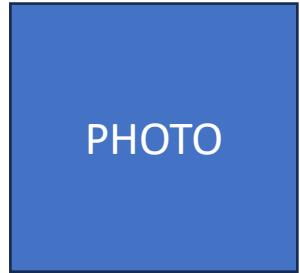
**Has a Deep Interaction Link (DIL) for Alpha Assistance (Tick as applicable):**

Yes/No/Not applicable

Details:



# Disaster/Impactful Events on road



## **Alpha Assistance (Help) Card**

**Date:**

**Version:**

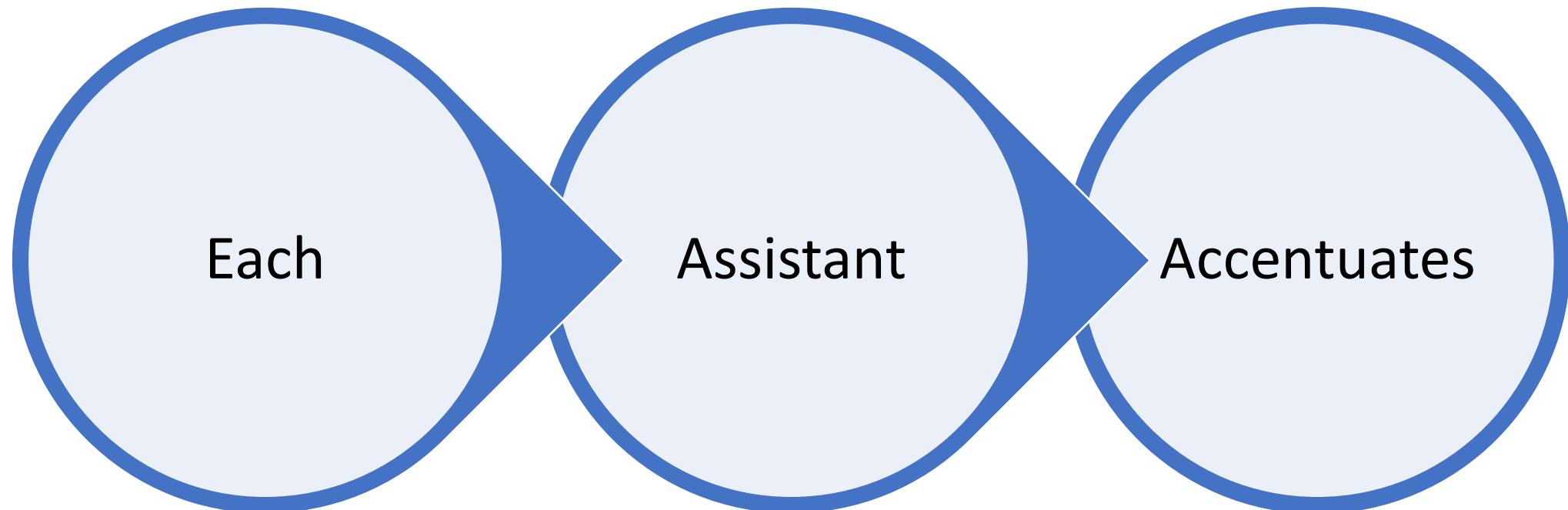
**Name:**

**Age:**

**Gender:**

**Additional Alpha Assistance Desk (notes):**

## DRSS Assistants – Fire & Emergency Services Profiling



Quiz

DRSS  
Assistants –  
Fire &  
Emergency  
Services

