



#### INTEGRATED ROAD ACCIDENT DATABASE - (iRAD) e-DETAILED ACCIDENT REPORT - (eDAR)

**ADVANCEMENT IN ROAD SAFETY** 



JANUARY 2025







#### **INTEGRATED ROAD ACCIDENT DATABASE**

The iRAD project was launched by Union Ministry for Road Transport & Highway and MSMEs **Shri. Nitin Gadkari,** on 13<sup>th</sup> January 2020.



![](_page_1_Picture_3.jpeg)

![](_page_1_Picture_4.jpeg)

#### **About Integrated Road Accident Databse/eDAR**

•The Integrated Road Accident Database (iRAD) is a central accident database management system designed to analyze the causes of crashes and devise safety interventions to reduce such accidents.

•iRAD is developed by the National Informatics Centre (NIC), Chennai, and implemented by NIC-NICSI across India.

•The project enables real-time collection of accident data through an integrated digital platform for all stakeholder departments. It is available as both a web-based module and a mobile app.

•iRAD has been successfully rolled out in 36 states and union territories across the country.

![](_page_2_Picture_5.jpeg)

![](_page_2_Picture_6.jpeg)

#### •iRAD was launched in Delhi on March 28, 2022.

•More than 4,500 training sessions have been conducted, with over 16,000 participants from the police department trained.

• The Delhi iRAD data is regularly monitored by both the Delhi iRAD Team and the Delhi Police SCRB Team. As a result, the Delhi iRAD data matches more than 97% of the data from the Delhi Police Data Centre, CCTNS portal, or SCRB data.

•eDAR went live in 2024, with Kalyanpuri Police Station (East Delhi) being the first station to start using eDAR.

•eDAR is an extension of iRAD, in which detailed accident reports are submitted by police officials for claim settlement.

![](_page_3_Picture_6.jpeg)

![](_page_3_Picture_7.jpeg)

#### **Features**

![](_page_4_Picture_1.jpeg)

![](_page_4_Picture_2.jpeg)

Motor Accident Claims Processing for Road accident victims in eDAR

ACCIDENT DATA COLLECTION To perform data analysis and Recommendation of remedial measures

**BLACK SPOT** 

**IDENTIFICATION** 

![](_page_4_Picture_5.jpeg)

Cashless treatment for Road accident victims through eDAR by Approving Police officials

500

![](_page_4_Picture_7.jpeg)

![](_page_4_Picture_8.jpeg)

![](_page_4_Picture_9.jpeg)

![](_page_4_Picture_10.jpeg)

![](_page_4_Picture_11.jpeg)

#### **Project Stakeholders**

![](_page_5_Figure_1.jpeg)

#### **Overview & Status as on Jan 2025**

![](_page_6_Figure_1.jpeg)

![](_page_6_Figure_2.jpeg)

![](_page_6_Picture_3.jpeg)

![](_page_6_Picture_4.jpeg)

# **Overview & Status -DELHI**

![](_page_7_Figure_1.jpeg)

![](_page_7_Figure_2.jpeg)

#### Total No of Persons involved – 39,747

Killed	Grievous	Minor	No Injury
4,659 (11.7%)	injury <b>4,972</b> (12.5%)	14,235 (35.8%)	15,881 (40%)

![](_page_7_Picture_5.jpeg)

![](_page_7_Picture_6.jpeg)

#### **iRAD** Integration

![](_page_8_Figure_1.jpeg)

![](_page_8_Picture_2.jpeg)

![](_page_8_Picture_3.jpeg)

# **iRAD-CCTNS INTEGRATION-DELHI**

![](_page_9_Figure_1.jpeg)

➢ Delhi has completed the forward and reverse integration of iRAD with CCTNS.

There is an option in the
CCTNS portal called
"Registration of iRAD FIR."

➤ The unique iRAD accident
ID must be entered in the
Accident ID field in CCTNS
after selecting
"Registration of iRAD FIR."
Afterward, data will be
fetched from iRAD to CCTNS.

## **iRAD-CATS AMBULANCES INTEGRATION**

![](_page_10_Figure_1.jpeg)

➢Delhi is the first state/UT to incorporate the GPS location of CATS ambulances in iRAD/eDAR.

➤ The GPS location of 261 CATS ambulances has been mapped.

➢ With the help of data analysis in iRAD/eDAR, ambulances can be repositioned to accident-prone areas.

![](_page_10_Picture_5.jpeg)

![](_page_10_Picture_6.jpeg)

# **Map Section – GRID ANALYSIS**

- To localise the accident data, entire area is divided into 2 square kilometre grids. Total area is divided into 18 lakh Grids with Unique Grid ID
- With the help of GIS tool, the No. of Accident falls in each grid is accounted.

![](_page_11_Figure_3.jpeg)

![](_page_11_Figure_4.jpeg)

![](_page_11_Picture_5.jpeg)

![](_page_11_Picture_6.jpeg)

#### **Map Section - Top Ten Accident Spots**

![](_page_12_Figure_1.jpeg)

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![](_page_12_Picture_3.jpeg)

#### **Top Accident Grid – DELHI**

![](_page_13_Figure_1.jpeg)

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![](_page_13_Picture_3.jpeg)

#### **Transition Matrix Report**

The Transition matrix helps to analyze the accident transition between two selected time periods. The grids falling diagonally represent, **NO change** in the number of accidents over the selected periods. The grids falling below the diagonal represents the **decreasing trend** of number of accidents, whereas the grids falling above the diagonal represents the increasing trend of number of accidents. (Increasing and static trend are the focus area for concerned stakeholders & Interventions are required.

	iR	۶D										
Ĩ	1									All INDIA ( Jan	- Mar of 2023 Vs Apr -	Jun of 2023) 📚
Ac	ccident					No of A	Apr - Jun of 2023 ccidents in each Gri	d ↔				
c	Count -	0	1	2	3	4	5	6	7-8	9-10	above 10	Total
	0	16,93,969	37,027	5,546	1,186	332	90	32	15	3	2	17,38,202
	1	37,027	9,234	2,796	1,003	359	140	67	24	9	2	50,861
	2	5,588	2,872	1,412	659	319	130	77	61	17	15	11,150
	3	1,265	1,054	712	440	245	159	101	77	26	8	4,087
	4	362	382	350	226	172	116	67	63	23	14	1,775
232	5	136	152	186	160	118	94	51	70	28	19	1,014
	6	65	82	96	87	73	60	50	38	25	18	594
	7-8	29	56	74	81	64	73	54	86	44	49	610
	9-10	4	14	18	33	26	27	35	63	30	45	295
ab	bove 10	7	3	13	20	13	31	21	65	67	224	464
т	TOTAL	17,38,452	50,876	11,203	3,895	1,721	920	555	562	272	396	18,08,852

Increasing trend Static trend Decreasing trend

![](_page_14_Picture_4.jpeg)

![](_page_14_Picture_5.jpeg)

#### **Top Accident Grids- Delhi**

				State : DELHI / Top Accident Locations : Total Accidents / Grid Limit : 20					
S.No	State name	District name	Grid ID	Total Accidents	Rank	Ambulance			
1	DELHI	North	<u>255723</u>	<u>143</u>	All INDIA Rank # 177				
2	DELHI	Central	255582	140	All INDIA Rank # 169				
3	DELHI	Central	255726	<u>137</u>	All INDIA Rank # 332				
4	DELHI	Central	255580	136	All INDIA Rank # 258				
5	DELHI	North West	255599	123	All INDIA Rank # 166				
6	DELHI	East	255490	113	All INDIA Rank # 327				
7	DELHI	Shahdara	255646	m	All INDIA Rank # 558				
8	DELHI	North	255695	<u>109</u>	All INDIA Rank # 160				
9	DELHI	Central	255701	<u>108</u>	All INDIA Rank # 262				
10	DELHI	Central	255485	102	All INDIA Rank # 201				
n	DELHI	North East	255583	<u>98</u>	All INDIA Rank # 371				
12	DELHI	North East	<u>255673</u>	<u>98</u>	All INDIA Rank # 1956				
13	DELHI	Central	255483	<u>96</u>	All INDIA Rank # 777				
14	DELHI	North East	255645	<u>96</u>	All INDIA Rank # 697				
15	DELHI	East	255491	<u>93</u>	All INDIA Rank # 649				
16	DELHI	New Delhi	255369	92	All INDIA Rank # 791				
17	DELHI	North West	255634	<u>91</u>	All INDIA Rank # 773				
18	DELHI	North	255666	<u>91</u>	All INDIA Rank # 620				
19	DELHI	North West	255572	<u>90</u>	All INDIA Rank # 274				
20	DELHI	Central	255451	<u>90</u>	All INDIA Rank # 744				

![](_page_15_Picture_2.jpeg)

![](_page_15_Picture_3.jpeg)

## NHA - iRAD integration

- eDAR Login credentials can be used.
- The LGD district code is mapped with the Police Districts.
- Live cashless treatment for accident victims has been successfully implemented.

![](_page_16_Figure_4.jpeg)

![](_page_16_Picture_5.jpeg)

![](_page_16_Picture_6.jpeg)

# eDAR Victim ID is Known to the Hospital

- Police will share the eDAR Victim ID to the hospital.
- eDAR Victim ID will be entered in TMS System.
- TMS System will fetch accident and victim details from eDAR System.
- eDAR Victim ID will be Mapped with TMS Victim ID, after verification of all the parameters.

![](_page_17_Picture_6.jpeg)

![](_page_17_Picture_7.jpeg)

#### **Road Accident Victim is Directly Admitted in the Hospital**

- Victim Details will be entered in the TMS System and TMS victim ID will be generated
- TMS Victim Details along with accident Location details will be passed to SP Office / Police Stations (using existing iRAD login credentials)
- SP office will inform the jurisdictional police station about the accident
- o Jurisdictional SHO will login and verify the accident Location and involvement of the victim.
- o SHO will try to Map this victim to the existing accident ID or create a new accident ID
- $_{\odot}$   $\,$  eDAR Victim ID along with accident ID will be mapped with TMS victim ID  $\,$
- This information will be shared to the Hospital

![](_page_18_Picture_9.jpeg)

![](_page_18_Picture_10.jpeg)

**NHA – Reports** 

TMS Districtwise Patient List											
S.No	TMS Patient ID	Patient Detail	Date and Time of Accident	Accident Location	Information from TMS	Response from eDAR	Updated by	FIR No	State : CHANDIGARH / District eDAR Victim ID	ct : CHANDIGA Approval Status	RH / Approval Status: Approved 🤷 🤷 🌫
1	<u>10000344</u>	Mohit (0, Male)	23-Apr- 2024 03:00 AM	Near bank	23-04- 2024 11:52 AM	29-04- 2024 04:39 PM	CHDSHO ps manimajra	.420	202406142100003DR1107560	Approved	UP14DS1360 - Not Known Insurance Details: Bajaj Allianz General Insurance Co. Ltd., Policy No: OG-22- 1701-1802-00461249, Validity: 22-Feb- 2023
2	<u>10000338</u>	Name (5, Male)	19-Apr- 2024 02:02 AM	Landamrk	19-04-2024 12:02 PM	13-05- 2024 01:21 PM	CHDSHO ps manimajra	345	202406142100004DRI107562	Approved	DL8CNB4284 - Victim Insurance Details: HDFC ERGO General Insurance Company Ltd, Policy No: 2302204969936800000, Validity: 25- Oct-2023 DL8SV0539 - Accused Insurance Details: NA, Policy No: 0174129, Validity: 11-Sep-2003
3	10000324	subhransu (33, Male)	18-Apr- 2024 04:00 AM	etgrrregre	18-04-2024 02:49 PM	27-05- 2024 03:13 PM	CHDSHO ps manimajra	FIR123	202406142100005DR1107570	Approved	UPI4DS1360 - Accused Insurance Details: Bajaj Allianz General Insurance Co. Ltd., Policy No: OG-22- 1701-1802-00461249, Validity: 22-Feb- 2023
4	10000156	neeraj (23, Male)	03-Apr- 2024 02:02 AM	test	04-04- 2024 03:12 PM	04-04- 2024 03:59 PM	Test	5588	2024061421340002PED19641	Approved	TNI3AC6239 - Victim Insurance Details: Universal Sompo General Insurance Co. Ltd., Policy No: 2369/72097548/00/000, Validity: 2028-

This report provides Approved Victims and Vehicle Insurance details with eDAR Victim ID

![](_page_19_Picture_4.jpeg)

#### Health Module , iRAD/eDAR-Registered Hospitals

![](_page_20_Figure_1.jpeg)

336 **Hospitals**, **36** are Government Hospitals and 300 Private Hospitals are registered and **6,166 Patients** are registered in iRAD/eDAR portal

![](_page_20_Picture_3.jpeg)

![](_page_20_Picture_4.jpeg)

#### **Dashboard-Transport**

![](_page_21_Figure_1.jpeg)

![](_page_21_Picture_2.jpeg)

![](_page_21_Picture_3.jpeg)

#### **Dashboard-Highways**

![](_page_22_Figure_1.jpeg)

![](_page_22_Picture_2.jpeg)

![](_page_22_Picture_3.jpeg)

#### Integration of National Highways Authority Of India (NHAI)

![](_page_23_Figure_1.jpeg)

![](_page_23_Picture_2.jpeg)

NHAI Data Lake **Unified Project Code (UPC)** integrated with iRAD application using this feature we can get a Regional Office(RO) wise Reports in our application

![](_page_23_Picture_4.jpeg)

![](_page_23_Picture_5.jpeg)

### **Monitoring Report : Road Owning Agency-wise Remedial Measures**

S.No	Accident ID	Severity	Accident Date & Time	State Name	District Name	Station Name	Road Classification	Short-term Remedial Measures	Long-term Remedial Measures
1	<u>2024020110440030</u>	Fatal	05-Jun-2024 : 07:30 PM	ANDHRA PRADESH	TIRUPATHI	NAIDUPE TA UPS	National Highway		Construction of flyover required at major junction
2	<u>202402011090018</u>	Minor Injury Hospitalized	06-Mar- 2024 : 09:30 AM	ANDHRA PRADESH	TIRUPATHI	MR Palli	State Highway		
3	<u>202402011110029</u>	Fatal	10-Jul-2024 : 10:00 PM	ANDHRA PRADESH	TIRUPATHI	Renigunta U PS	National Highway	Road Sign boards to be provided as per site condition, Road Lane marking to be provided, Sign marking on the Road to be provided	
4	<u>202402011110030</u>	Fatal	24-Jul-2024 : 10:00 PM	ANDHRA PRADESH	TIRUPATHI	Renigunta U PS	State Highway	Road Sign boards to be provided as per site condition, Road Lane marking to be provided, Speed Breaker marking to be provided	
5	<u>202402011540001</u>	Fatal	05-Jan-2024 : 06:00 AM	ANDHRA PRADESH	TIRUPATHI	PELLAKU RU	National Highway	Not Applicable	Not Applicable
6	<u>202402011540002</u>	Fatal	07-Jan-2024 : 12:30 AM	ANDHRA PRADESH	TIRUPATHI	PELLAKU RU	National Highway	Guard rail to be provided at the edge of the road	
7	<u>202402011540003</u>	Fatal	09-Jan-2024 : 07:30 PM	ANDHRA PRADESH	TIRUPATHI	PELLAKU RU	National Highway	Footpath needs to be repaired	

![](_page_24_Picture_2.jpeg)

![](_page_24_Picture_3.jpeg)

#### **Monitoring Report : Remedial Measures Rectification Status**

The new fields of Remedial measures Action Taken status like (**Yet to start, Ongoing, Completed, Not required**) are incorporated in the RO/PIU Users to Update their Actions on given Remedial measures .

S.No	State Name	District Name	Station Name	Accident ID	Severity	Road Classification	Remedial Measure	Status	Туре	Updated by	Updated on
1	GUJARAT	DAHOD	DEVGADHBARIA POLICE STATION	<u>2023118210050039</u>	Fatal	State Highway	Road Sign boards to be provided as per site condition	Yet to start	Short	RNBSTEE DAH	05-Jul-2024
2	GUJARAT	DAHOD	DEVGADHBARIA POLICE STATION	<u>2023118210050039</u>	Fatal	State Highway	Transverse bar markings to be provided at the Junction/ Curve	Yet to start	Short	RNBSTEE DAH	05-Jul-2024
3	GUJARAT	DAHOD	DEVGADHBARIA POLICE STATION	<u>2023118210050039</u>	Fatal	State Highway	Sign marking on the Road to be provided	Yet to star	Short	RNBSTEE DAH	05-Jul-2024
4	JAMMU & KASHMIR	JAMMU	BISHNAH	<u>202414267050014</u>	Minor Injury Hospitalized	National Highway	Provide Speed-Guns to overcome Over-speeding vehicle	Not Required	Short	PIUJAMM UIRAD	09-Jul-2024
5	JAMMU & KASHMIR	JAMMU	BISHNAH	<u>202414267050014</u>	Minor Injury Hospitalized	National Highway	Speed Limiter to be provided	Not Required	Short	PIUJAMM UIRAD	09-Jul-2024
6	TAMIL NADU	ARIYALUR	JEYANKONADA M	<u>202429936110056</u>	Fatal	National Highway	Road Sign boards to be provided as per site condition	Not Required	Short	PIUVILLU PURAM	11-Jul-202

This Report provides

- Action status Updated by Respective RO/PIU
- Road Classification
- Along with District/ Station level drilldown options

![](_page_25_Picture_7.jpeg)

![](_page_25_Picture_8.jpeg)

# eDAR Status as on March 2025

![](_page_26_Picture_1.jpeg)

![](_page_26_Picture_2.jpeg)

![](_page_26_Picture_3.jpeg)

#### eDAR Forms Push to eCourts through API

FORMS	Title	Time Duration of Form Submission
Form-I	First Accident Report (FAR)	48 hours
Form-II	Rights of Victim(s) of road accident and flow chart	10 days
Form-III	Driver's form	30 days
Form-IV	Owner's form	30 days
Form-V	Interim Accident Report (IAR)	50 days
Form-VI	Victim's form	60 days
Form-VI A	Victim's form relating to minor children	60 days
Form-VII	Detailed Accident Report (DAR)	90 days
Form-VIII	Site Plan	90 days
Form-IX	Mechanical Inspection Report	90 days
Form-X	Verification Report	90 days

![](_page_27_Figure_2.jpeg)

• The technical integration of eDAR with eCourts application is completed and tested in the pilot States/UT of Delhi.

![](_page_27_Picture_4.jpeg)

![](_page_27_Picture_5.jpeg)

#### **District wise eDAR Forms Submission**

S.No	District Code	District Name	Form 1	Form 2	Form 3	Form 4	Form 5	Form 6	Form 6A	Form 7	Form 8	Form 9	Form 10
1	162	CENTRAL DELHI	2	2	2	2	2	1	1		1		2
2	176	DWARKA	<u>11</u>	<u>8</u>	4	<u>5</u>	4	5	<u>6</u>	1	<u>6</u>	1	5
3	168	EAST DELHI	1	1	1	1	1	1	1	1	1	1	1
4	169	IGI AIRPORT	1	1	1	1	1	1	1	1	1	1	1
5	160	METRO											
6	165	NEW DELHI	1	1	1	1	1	1	1				1
7	166	NORTH DELHI	4	1	1	1	1	1	1				1
8	173	NORTH EAST DELHI	<u>3</u>	<u>3</u>	1								
9	172	NORTH WEST DELHI	1										
10	174	OUTER DISTRICT	<u>11</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>9</u>	<u>8</u>		<u>9</u>		<u>10</u>
n	991	OUTER-NORTH DELHI	1	1									
12	164	RAILWAY											
13	959	ROHINI	<u>61</u>	<u>61</u>	<u>52</u>	<u>52</u>	<u>43</u>	36	<u>32</u>	4	<u>49</u>	4	<u>52</u>
14	957	SHAHDARA	<u>3</u>	2	2	1	1	1	1	1	1	1	1
15	167	SOUTH DELHI	<u>6</u>	<u>5</u>	4	4	<u>3</u>	1	1	1	2	1	4
16	955	SOUTH EAST DISTRICT	5	<u>5</u>	1	1	1	1	1	1	1	1	1
17	171	SOUTH WEST DELHI	4	4	1	1	1	1	1		1		1
18	170	WEST DELHI	<u>3</u>	<u>3</u>	<u>3</u>	3	<u>3</u>	2	<u>3</u>		<u>3</u>		<u>3</u>
	тс	TAL	118	108	84	83	72	61	58	10	75	10	83

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![](_page_28_Picture_3.jpeg)

![](_page_28_Picture_4.jpeg)

# THANK YOU eMail ID: irad-dlsrm@nic.in

![](_page_29_Picture_1.jpeg)

![](_page_29_Picture_2.jpeg)