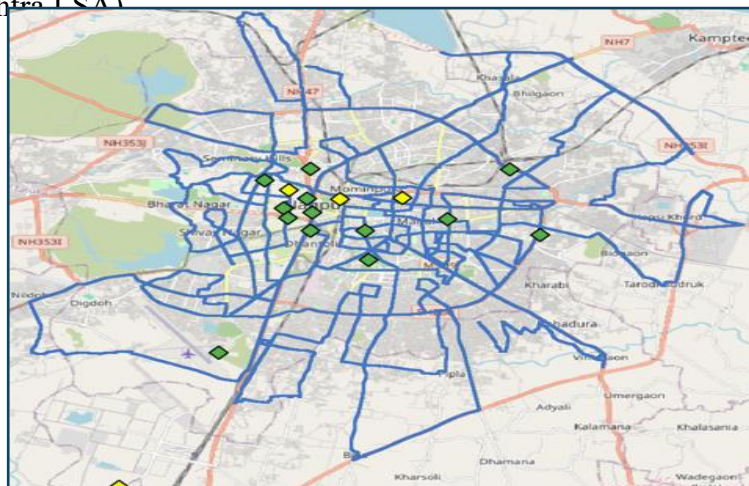
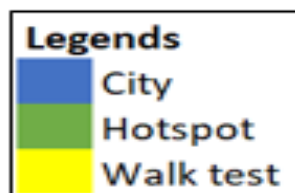


1.

Drive test route Map: (Nagpur City- Maharashtra LSA)

This route map indicates the routes covered in independent drive test in Nagpur City under Maharashtra LSA.

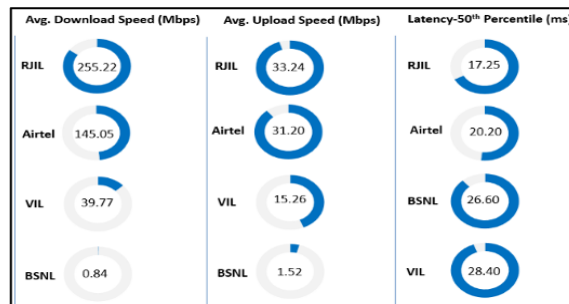
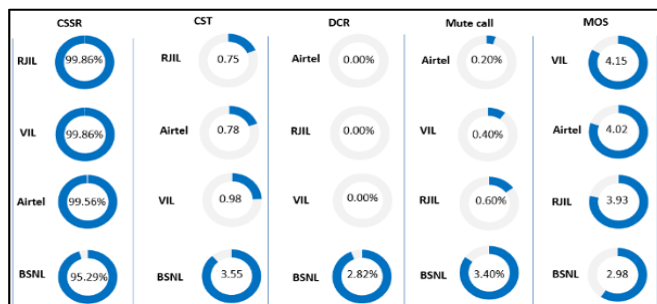
Legends for the Drive Tests route & area are as below



2.

Performance against key QoS parameters:

CSSR: Call Setup Success Rate (in %), CST: Call Setup Time (in milli seconds), DCR: Drop Call Rate (in %) & MOS: Mean Opinion Score.



Summary-Voice Service

Call Setup Success Rate: Airtel, BSNL, RJIL and VIL have call setup success rate of 99.56%, 95.29%, 99.86% and 99.86% respectively in Auto-selection mode (5G/4G/3G/2G).

Call Setup Time: Airtel, BSNL, RJIL and VIL have call setup time of 0.78, 3.55, 0.75 & 0.98 seconds respectively in Auto-selection mode (5G/4G/3G/2G).

Drop Call Rate: Airtel, BSNL, RJIL and VIL have drop call rate of 0.00%, 2.82%, 0.00% and 0.00% respectively in Auto selection mode (5G/4G/3G/2G).

Call Silence/Mute Rate: Airtel, BSNL, RJIL and VIL have silence call rate of 0.20%, 3.40%, 0.60% & 0.40% respectively in packet switched network (4G/5G).

Mean Opinion Score (MOS): Airtel, BSNL, RJIL and VIL have MOS score of 4.02, 2.98, 3.93 & 4.15 respectively.

Summary-Data Service

Data Download performance (Overall): Average download speed of Airtel (5G/4G) is 145.05 Mbps, BSNL (4G/3G/2G) is 0.84 Mbps, RJIL (5G/4G) is 255.22 Mbps and VIL (4G/3G/2G) is 39.77 Mbps.

Data Upload performance (Overall): Average upload speed of Airtel (5G/4G) is 31.20 Mbps, BSNL (4G/3G/2G) is 1.52 Mbps, RJIL (5G/4G) is 33.24 Mbps and VIL (4G/3G/2G) is 15.26 Mbps.

Data performance - Hotspots (in Mbps):

Airtel- 4G D/L:	37.92	4G U/L:	11.59
5G D/L:	228.11	5G U/L:	36.59
BSNL- 4G D/L:	0.89	4G U/L:	2.31
RJIL- 4G D/L:	38.88	4G U/L:	13.15
5G D/L:	317.60	5G U/L:	38.64
VIL- 4G D/L:	47.91	4G U/L:	22.48

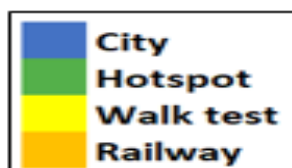
Note- "D/L" Download speed, "U/L" Upload speed

Annexure-B

1. Drive test route Map: (Prayagraj city & Prayagraj to Kanpur Railway Route, UP East LSA)

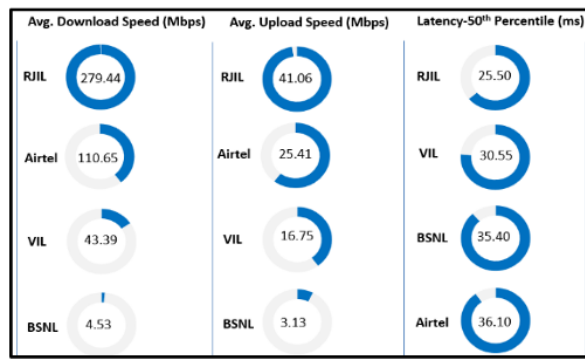
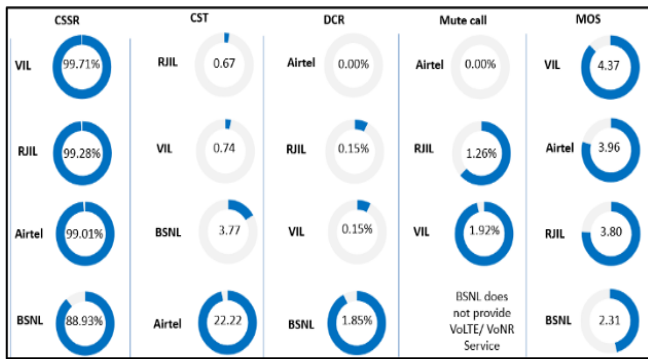
This route map indicates the routes covered in independent drive test in Prayagraj city & Prayagraj to Kanpur Railway Route under UP (East) LSA.

Legends for the Drive Tests route & area are as below



2. Performance against key QoS parameters:

CSSR: Call Setup Success Rate (in %), CST: Call Setup Time (in milli seconds), DCR: Drop Call Rate (in %) & MOS: Mean Opinion Score.



Summary-Voice Service

Call Setup Success Rate: Airtel, BSNL, RJIL and VIL have call setup success rate of 99.01%, 88.93%, 99.28% and 99.71% respectively in Auto-selection mode (5G/4G/3G/2G).

Call Setup Time: Airtel, BSNL, RJIL and VIL have call setup time of 22.22, 3.77, 0.67, & 0.74 seconds in Auto-selection mode (5G/4G/3G/2G).

Drop Call Rate: Airtel, BSNL, RJIL and VIL have drop call rate of 0.00%, 1.85%, 0.15% and 0.15% respectively in Auto-selection mode (5G/4G/3G/2G).

Call Silence/Mute Rate: Airtel, RJIL and VIL have silence call rate 0.00%, 1.26% & 1.92% respectively in packet switched network (4G/5G).

Mean Opinion Score (MOS): Airtel, BSNL, RJIL and VIL have MOS score of 3.96, 2.31, 3.80 & 4.37 respectively.

Summary-Data Service

Data Download performance (Overall): Average download speed of Airtel (5G/4G) is 110.65 Mbps, BSNL (4G/3G/2G) is 4.53 Mbps, RJIL (5G/4G) is 279.44 Mbps and VIL (4G/3G/2G) is 43.39 Mbps.

Data Upload performance (Overall): Average upload speed of Airtel (5G/4G) is 25.41 Mbps, BSNL (4G/3G/2G) is 3.13 Mbps, RJIL (5G/4G) is 41.06 Mbps and VIL (4G/3G/2G) is 16.75 Mbps.

Data performance - Hotspots (in Mbps):

Airtel- 4G D/L:	39.90	4G U/L:	10.97
5G D/L:	175.95	5G U/L:	25.23
BSNL- 4G D/L:	10.70	4G U/L:	7.44
RJIL- 4G D/L:	61.04	4G U/L:	16.31
5G D/L:	267.29	5G U/L:	48.15
VIL- 4G D/L:	54.99	4G U/L:	19.99

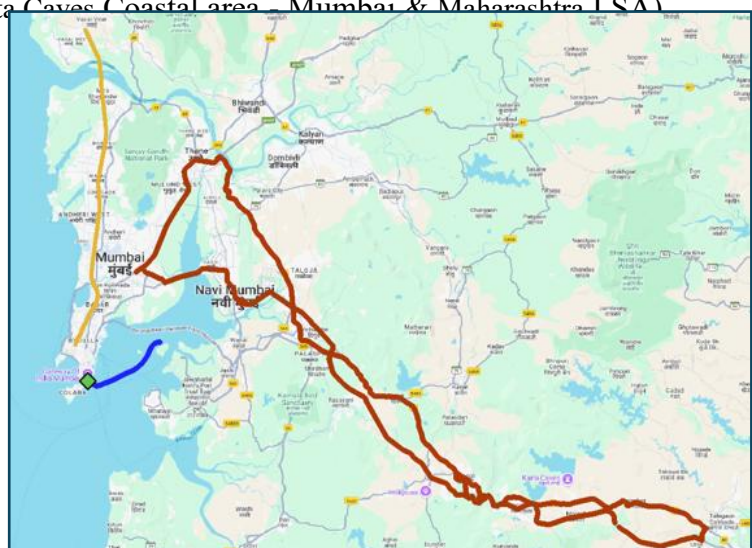
Note- "D/L" Download speed, "U/L" Upload speed

Annexure-C

1.

Drive test route Map: (Mumbai City & Mumbai to Pune Express Highway, Mumbai Central to Vasai Road Railway Route & Gateway of India to Elephanta Caves Coastal area, Mumbai & Maharashtra LSA)

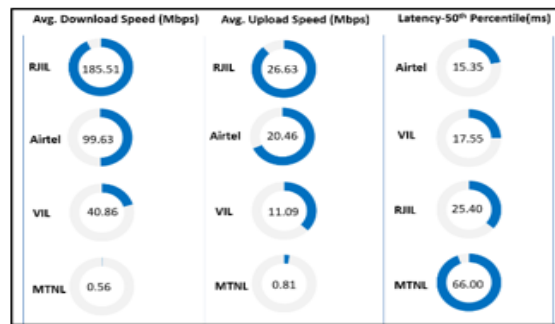
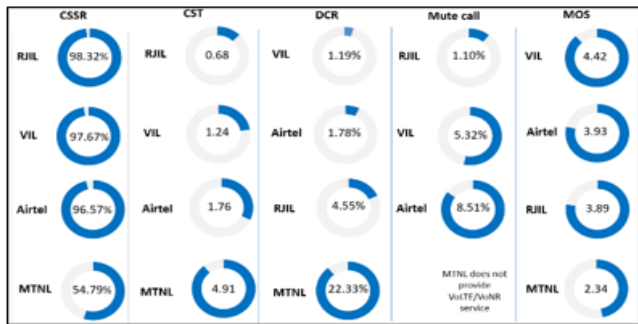
This route map indicates the routes covered in independent drive test in Mumbai city & Mumbai to Pune Express Highway, Mumbai Central to Vasai Road Railway Route & Gateway of India to Elephanta Caves Coastal area under Mumbai & Maharashtra LSA. Legends for the Drive Tests route & area are as below



2.

Performance against key QoS parameters:

CSSR: Call Setup Success Rate (in %), CST: Call Setup Time (in milli seconds), DCR: Drop Call Rate (in %) & MOS: Mean Opinion Score



Summary-Voice Service

Call Setup Success Rate: Airtel, MTNL, RJIL and VIL have call setup success rate of 96.57%, 54.79%, 98.32% and 97.67% respectively in Auto-selection mode (5G/4G/3G/2G).

Call Setup Time: Airtel, MTNL, RJIL and VIL have call setup time of 1.76, 4.91, 0.68, & 1.24 seconds respectively in Auto-selection mode (5G/4G/3G/2G).

Drop Call Rate: Airtel, MTNL, RJIL and VIL have drop call rate of 1.78%, 22.33%, 4.55% and 1.19% respectively in Auto-selection mode (5G/4G/3G/2G).

Call Silence/Mute Rate: Airtel, RJIL and VIL have silence call rate of 8.51%, 1.10% & 5.32% respectively in packet switched network (4G/5G).

Mean Opinion Score (MOS): Airtel, MTNL, RJIL and VIL have MOS score of Quality of 3.93, 2.34, 3.89 & 4.42 respectively.

Summary-Data Service

Data Download performance (Overall): Average download speed of Airtel (5G/4G) is 99.63 Mbps, MTNL (3G/2G) is 0.56 Mbps, RJIL (5G/4G) is 185.51 Mbps and VIL (4G/3G/2G) is 40.86 Mbps.

Data Upload performance (Overall): Average upload speed of Airtel (5G/4G) is 20.46 Mbps, MTNL (3G/2G) is 0.81 Mbps, RJIL (5G/4G) is 26.63 Mbps and VIL (4G/3G/2G) is 11.09 Mbps.

Data performance - Hotspots (in Mbps):

Airtel- 4G D/L: 44.67	4G U/L: 6.57
5G D/L: 195.74	5G U/L: 58.74
RJIL- 4G D/L: 44.82	4G U/L: 6.01
5G D/L: 509.86	5G U/L: 43.56
VIL- 4G D/L: 58.29	4G U/L: 4.77
5G D/L: 218.18	5G U/L: 21.76

Note- "D/L" Download speed, "U/L" Upload speed
4G & 5G technology have not been observed in MTNL

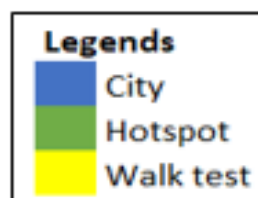
Annexure-D

1.

Drive test route Map: (Ambala City- Haryana LSA)

This route map indicates the routes covered in independent drive test in Ambala City under Haryana LSA.

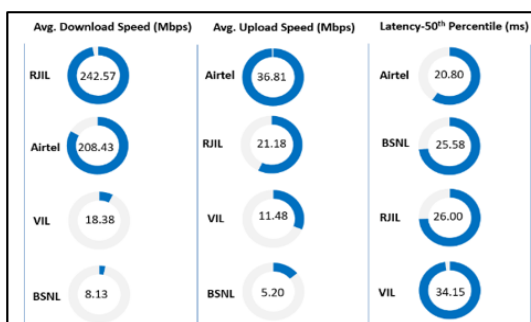
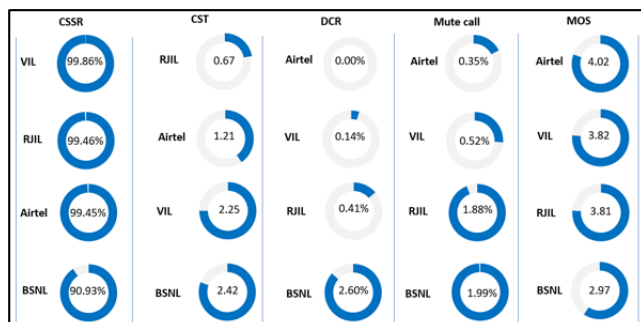
Legends for the Drive Tests route & area are as below



2.

Performance against key QoS parameters:

CSSR: Call Setup Success Rate (in %), CST: Call Setup Time (in milli seconds), DCR: Drop Call Rate (in %) & MOS: Mean Opinion Score



Summary-Voice Service

Call Setup Success Rate: Airtel, BSNL, RJIL and VIL have call setup success rate of 99.45%, 90.93%, 99.46% and 99.86% respectively in Auto-selection mode (5G/4G/3G/2G).

Call Setup Time: Airtel, BSNL, RJIL and VIL have call setup time of 1.21, 2.42, 0.67, & 2.25 seconds respectively in Auto-selection mode (5G/4G/3G/2G).

Drop Call Rate: Airtel, BSNL, RJIL and VIL have drop call rate of 0.00%, 2.60%, 0.41% & 0.14% respectively in Auto-selection mode (5G/4G/3G/2G).

Call Silence/Mute Rate: Airtel, BSNL, RJIL and VIL have silence rate of 0.35%, 1.99%, 1.88% & 0.52% respectively in packet switched network (4G/5G).

Mean Opinion Score (MOS): Airtel, BSNL, RJIL and VIL have MOS score of 4.02, 2.97, 3.81, & 3.82 respectively.

Summary-Data Service

Data Download performance (Overall): Average download speed of Airtel (5G/4G) is 208.43 Mbps, BSNL (4G/3G/2G) is 8.13 Mbps, RJIL (5G/4G) is 242.57 Mbps and VIL (4G/3G/2G) is 18.38 Mbps.

Data Upload performance (Overall): Average upload speed of Airtel (5G/4G) is 36.81 Mbps, BSNL (4G/3G/2G) is 5.20 Mbps, RJIL (5G/4G) is 21.18 Mbps and VIL (4G/3G/2G) is 11.48 Mbps.

Data performance - Hotspots (in Mbps):

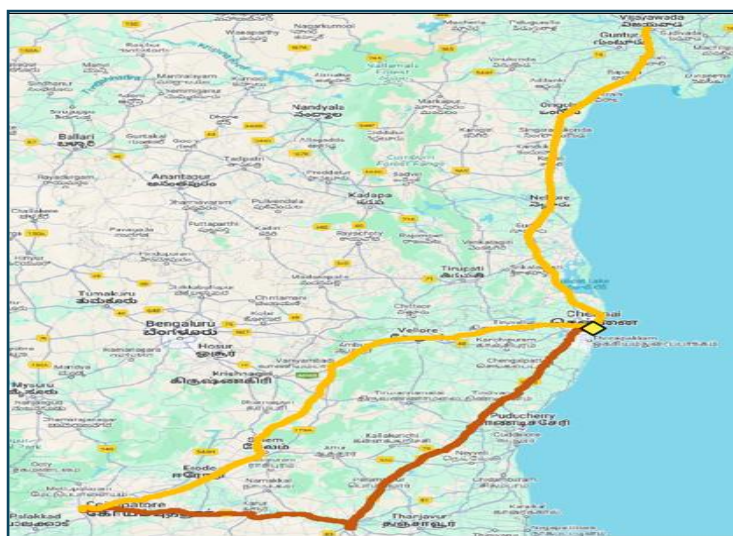
Airtel- 4G D/L: 31.71	4G U/L: 16.34
5G D/L: 296.15	5G U/L: 63.84
BSNL- 4G D/L: 13.27	4G U/L: 9.42
RJIL- 4G D/L: 41.21	4G U/L: 10.59
5G D/L: 301.49	5G U/L: 27.20
VIL- 4G D/L: 38.74	4G U/L: 24.64

Note- "D/L" Download speed, "U/L" Upload speed

1. Drive test route Map: (Chennai City & Chennai to Coimbatore Highway Route, Railway Routes from Vijayawada to Chennai & Coimbatore to Chennai– Tamil Nadu LSA)

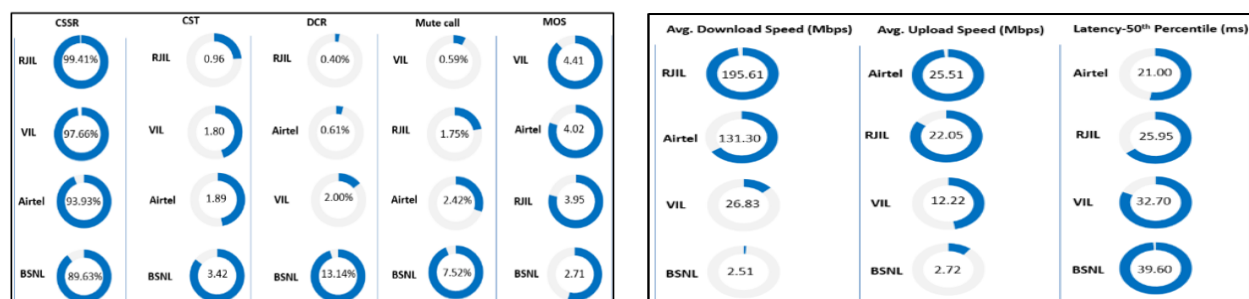
This route map indicates the routes covered in independent drive test in Chennai City & Chennai to Coimbatore Highway Route, Railway Routes from Vijayawada to Chennai & Coimbatore to Chennai under Tamil Nadu LSA.

Legends for the Drive Tests route & area are as below



2. Performance against key QoS parameters:

CSSR: Call Setup Success Rate (in %), CST: Call Setup Time (in milli seconds), DCR: Drop Call Rate (in %) & MOS: Mean Opinion Score



Summary-Voice Service

Call Setup Success Rate: Airtel, BSNL, RJIL and VIL have call setup success rate of 93.93%, 89.63%, 99.41% and 97.66% respectively in Auto-selection mode (5G/4G/3G/2G).

Call Setup Time: Airtel, BSNL, RJIL and VIL have call setup time of 1.89, 3.42, 0.96 & 1.80 seconds respectively in Auto-selection mode (5G/4G/3G/2G).

Drop Call Rate: Airtel, BSNL, RJIL and VIL have drop call rate of 0.61%, 13.14%, 0.40% & 2.00% respectively in Auto selection mode (5G/4G/3G/2G).

Call Silence/Mute Rate: Airtel, BSNL, RJIL and VIL have silence rate of 2.42%, 7.52%, 1.75% & 0.59% respectively in packet switched network (4G/5G).

Mean Opinion Score (MOS): Airtel, BSNL, RJIL and VIL have MOS score of 4.02, 2.71, 3.95 & 4.41 respectively.

Summary-Data Service

Data Download performance (Overall): Average download speed of Airtel (5G/4G) is 131.30 Mbps, BSNL (4G/3G/2G) is 2.51 Mbps, RJIL (5G/4G) is 195.61 Mbps and VIL (4G/3G/2G) is 26.83 Mbps.

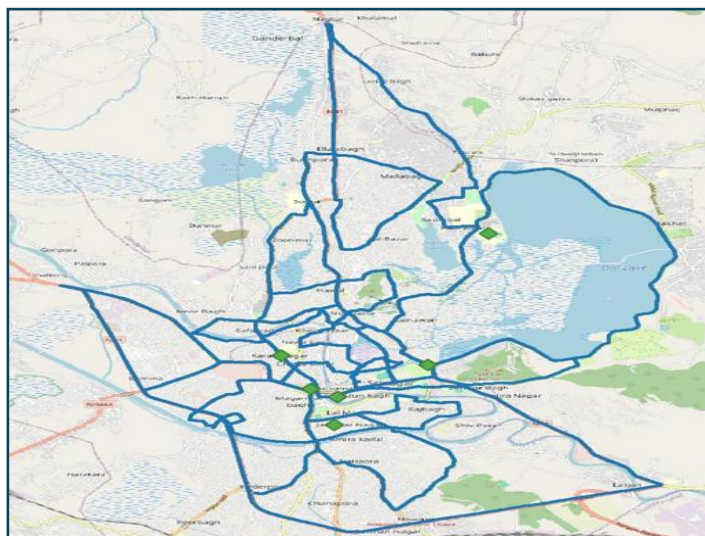
Data Upload performance (Overall): Average upload speed of Airtel (5G/4G) is 25.51 Mbps, BSNL (4G/3G/2G) is 2.72 Mbps, RJIL (5G/4G) is 22.05 Mbps and VIL (4G/3G/2G) is 12.22 Mbps.

Annexure-F

1. Drive test route Map: (Srinagar City– Jammu & Kashmir LSA)

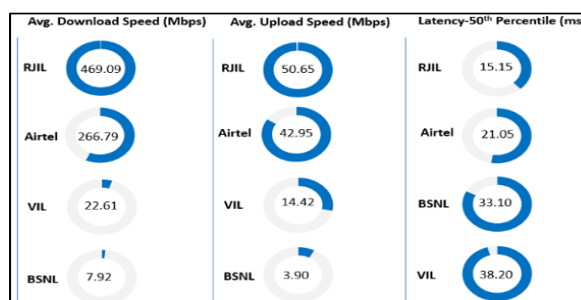
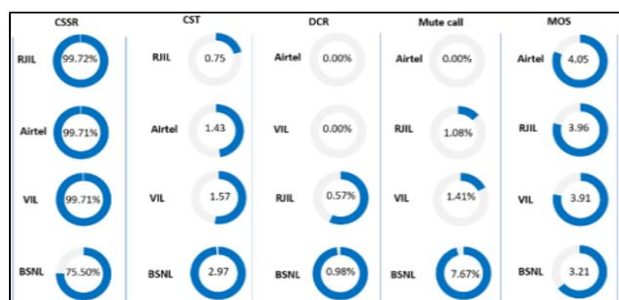
This route map indicates the routes covered in independent drive test in Srinagar City under Jammu & Kashmir LSA.

Legends for the Drive Tests route & area are as below



2. Performance against key QoS parameters:

CSSR: Call Setup Success Rate (in %), CST: Call Setup Time (in milli seconds), DCR: Drop Call Rate (in %) & MOS: Mean Opinion Score



Summary-Voice Service

Call Setup Success Rate: Airtel, BSNL, RJIL and VIL have call setup success rate of 99.71%, 75.50%, 99.72% and 99.71% respectively in Auto-selection mode (5G/4G/3G/2G).

Call Setup Time: Airtel, BSNL, RJIL and VIL have call setup time of 1.43, 2.97, 0.75 & 1.57 seconds respectively in Auto-selection mode (5G/4G/3G/2G).

Drop Call Rate: Airtel, BSNL, RJIL and VIL have drop call rate of 0.00%, 0.98%, 0.57% & 0.00 % respectively in Auto selection mode (5G/4G/3G/2G).

Call Silence/Mute Rate: Airtel, BSNL, RJIL and VIL have silence rate of 0.00%, 7.67%, 1.08% & 1.41% respectively in packet switched network (4G/5G).

Mean Opinion Score (MOS): Airtel, BSNL, RJIL and VIL have MOS score of 4.05, 3.21, 3.96 & 3.91 respectively.

Summary-Data Service

Data Download performance (Overall): Average download speed of Airtel (5G/4G) is 266.79 Mbps, BSNL (4G/3G/2G) is 7.92 Mbps, RJIL (5G/4G) is 469.09 Mbps and VIL (4G/3G/2G) is 22.61 Mbps.

Data Upload performance (Overall): Average upload speed of Airtel (5G/4G) is 42.95 Mbps, BSNL (4G/3G/2G) is 3.90 Mbps, RJIL (5G/4G) is 50.65 Mbps and VIL (4G/3G/2G) is 14.42 Mbps.

Data performance - Hotspots (in Mbps):

Airtel- 4G D/L:	44.64	4G U/L:	10.43
5G D/L:	281.46	5G U/L:	51.32
BSNL- 4G D/L:	8.96	4G U/L:	6.24
RJIL- 4G D/L:	85.49	4G U/L:	17.67
5G D/L:	481.27	5G U/L:	48.18
VIL- 4G D/L:	22.03	4G U/L:	16.53

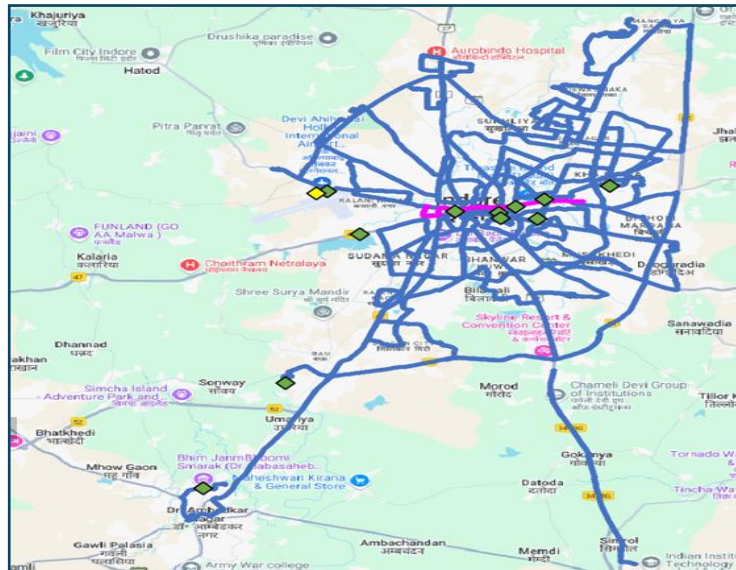
Note- "D/L" Download speed, "U/L" Upload speed

Annexure-G

1. Drive test route Map: (Indore City– Madhya Pradesh LSA)

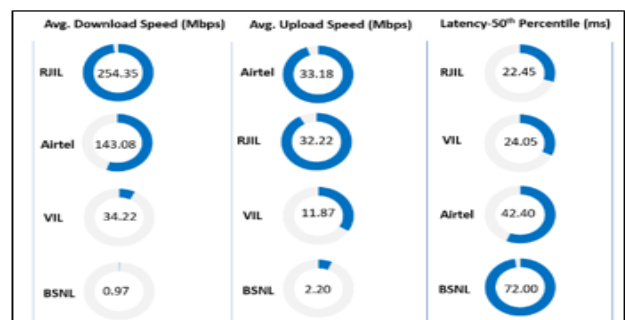
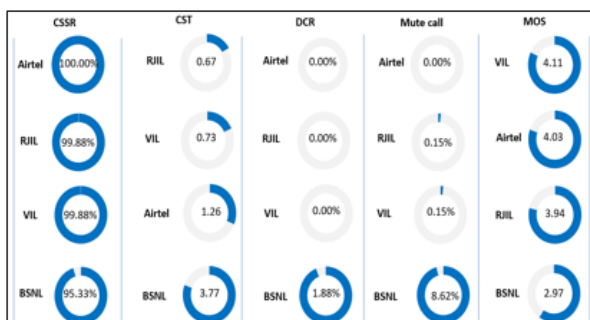
This route map indicates the routes covered in independent drive test in Indore City under Madhya Pradesh LSA.

Legends for the Drive Tests route & area are as below



2. Performance against key QoS parameters:

CSSR: Call Setup Success Rate (in %), CST: Call Setup Time (in milli seconds), DCR: Drop Call Rate (in %) & MOS: Mean Opinion Score



Summary-Voice Service

Call Setup Success Rate: Airtel, BSNL, RJIL and VIL have call setup success rate of 100.00%, 95.33%, 99.88% and 99.88% respectively in Auto-selection mode (5G/4G/3G/2G).

Call Setup Time: Airtel, BSNL, RJIL and VIL have call setup time of 1.26, 3.77, 0.67 & 0.73 seconds respectively in Auto-selection mode (5G/4G/3G/2G).

Drop Call Rate: Airtel, BSNL, RJIL and VIL have drop call rate of 0.00%, 1.88%, 0.00% & 0.00% respectively in Auto selection mode (5G/4G/3G/2G).

Call Silence/Mute Rate: Airtel, BSNL, RJIL and VIL have silence rate of 0.00%, 8.62%, 0.15% & 0.15% respectively in packet switched network (4G/5G).

Mean Opinion Score (MOS): Airtel, BSNL, RJIL and VIL have MOS score of 4.03, 2.97, 3.94 & 4.11 respectively.

Summary-Data Service

Data Download performance (Overall): Average download speed of Airtel (5G/4G) is 143.08 Mbps, BSNL (4G/3G/2G) is 0.97 Mbps, RJIL (5G/4G) is 254.35 Mbps and VIL (4G/3G/2G) is 34.22 Mbps.

Data Upload performance (Overall): Average upload speed of Airtel (5G/4G) is 33.18 Mbps, BSNL (4G/3G/2G) is 2.20 Mbps, RJIL (5G/4G) is 32.22 Mbps and VIL (4G/3G/2G) is 11.87 Mbps.

Data performance - Hotspots (in Mbps):

Airtel- 4G D/L: 36.46	4G U/L: 10.81
5G D/L: 200.19	5G U/L: 33.84
BSNL- 4G D/L: 1.60	4G U/L: 2.82
RJIL- 4G D/L: 28.61	4G U/L: 7.21
5G D/L: 267.18	5G U/L: 23.65
VIL- 4G D/L: 22.58	4G U/L: 7.14

Note- "D/L" Download speed, "U/L" Upload speed