Methodology:
Drive test was conducted in City (Bhopal) & surrounding areas from 9:00 AM to 7:30 PM from 28th February 2017 to 1st March 2017. The total drive test covered was approximately 250 km over a period of 2 days. A total of ~4725 calls were made for Six 2G networks, Six 3G networks, and one CDMA networks covering Six operators.
# City-Level Performance

## City-Level Details

### Operator Performance against Key Performance Indicators:

1. **Call Setup Success Rate**, 2. **Blocked Call Rate**, 3. **Call Drop Rate**, 4. **Rx Quality**

### Key Performance Indicators

- **Call Setup Success Rate** (CSSR): All the operators have met the benchmark of >=95% except Rjio. Refer. Fig 1

- **Blocked Call Rate** (BCR): All the operators have met the benchmark of <=3%. Refer. Fig 2

- **Call Drop Rate** (CDR): All the operators meet the benchmark of <2%. Refer. Fig 3

- **Rx Quality**: All of the operators meet the benchmark of >=95% Except Reliance 3G. Refer. Fig 4

### Abbreviation / Definition:

- **CSSR**: Call Setup Success Rate (benchmark >=95%)
- **BCR**: Blocked Call Rate (benchmark <=3%)
- **CDR**: Call Drop Rate (benchmark <=2%)
- **Rx Quality**: 2G (RxQual <=5), 3G (EcNo >=-15dBm), CDMA (FER <=4%)

### Current Drive:

- March'2017

### Legends

- Threshold for each KPI are considered as per TRAI guidelines

### Figures

- **Fig 1. Call Setup Success Rate (%)**
- **Fig 2. Block Call Rate (%)**
- **Fig 3. Call Drop Rate (%)**
- **Fig 4. Rx Quality (%)**
### 3. City-Level KPI details

<table>
<thead>
<tr>
<th>Call Events</th>
<th>Airtel 2G</th>
<th>Airtel 3G</th>
<th>BSNL 2G</th>
<th>BSNL 3G</th>
<th>IDEA 2G</th>
<th>IDEA 3G</th>
<th>TATA CDMA</th>
<th>TATA 2G</th>
<th>TATA 3G</th>
<th>Reliance 2G</th>
<th>Reliance 3G</th>
<th>Vodafone 2G</th>
<th>Vodafone 3G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Call Attempt</td>
<td>428</td>
<td>358</td>
<td>412</td>
<td>337</td>
<td>354</td>
<td>306</td>
<td>384</td>
<td>377</td>
<td>301</td>
<td>395</td>
<td>341</td>
<td>394</td>
<td>338</td>
</tr>
<tr>
<td>Blocked Call Rate</td>
<td>0%</td>
<td>0%</td>
<td>0.49%</td>
<td>0.89%</td>
<td>0.85%</td>
<td>0.65%</td>
<td>0.26%</td>
<td>1.86%</td>
<td>1%</td>
<td>0.25%</td>
<td>0.88%</td>
<td>0.51%</td>
<td>0.31%</td>
</tr>
<tr>
<td>CSSR (Accessibility)</td>
<td>100%</td>
<td>100%</td>
<td>99.51%</td>
<td>99.11%</td>
<td>99.15%</td>
<td>99.35%</td>
<td>99.74%</td>
<td>97.61%</td>
<td>98.01%</td>
<td>99.75%</td>
<td>99.12%</td>
<td>98.22%</td>
<td>98.52%</td>
</tr>
<tr>
<td>Dropped Call Rate</td>
<td>0.47%</td>
<td>0.80%</td>
<td>0.24%</td>
<td>0%</td>
<td>0.28%</td>
<td>0%</td>
<td>1.04%</td>
<td>0.82%</td>
<td>1.02%</td>
<td>0.51%</td>
<td>0.89%</td>
<td>0.52%</td>
<td>0%</td>
</tr>
<tr>
<td>Mobility HOSR</td>
<td>98.59%</td>
<td>100%</td>
<td>97.79%</td>
<td>93.81%</td>
<td>99.47%</td>
<td>99.93%</td>
<td>99.88%</td>
<td>98.71%</td>
<td>100%</td>
<td>98%</td>
<td>100%</td>
<td>99.44%</td>
<td>98.99%</td>
</tr>
<tr>
<td>Rx Quality</td>
<td>95.82%</td>
<td>97.87%</td>
<td>98.60%</td>
<td>100%</td>
<td>96.50%</td>
<td>97.19%</td>
<td>98.47%</td>
<td>98.91%</td>
<td>98.94%</td>
<td>97.97%</td>
<td>92.17%</td>
<td>95.73%</td>
<td>96.01%</td>
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