

# Drive Test Report

## February 2017

### MANGALORE


Key performance indicators for operators: : Few operators failed to meet the Call Dropped Rate (CDR) benchmark of  $\leq 2\%$  where as most of the operators met the Call Setup Success Rate (CSSR) benchmark of  $\geq 95\%$

#### Methodology:

Drive test was conducted in Mangalore City & surrounding areas from 30<sup>th</sup> Jan to 1<sup>st</sup> Feb 2017. The total drive test covered was approximately 365 kms. A total of 5976 calls were made over a period of 3 days for six 2G networks, four 3G networks and two CDMA networks covering seven operators

Date: March 2017

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City- Level  
Performance

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I. Methodology  
II.Operators Performance Details  
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## City-Level Details

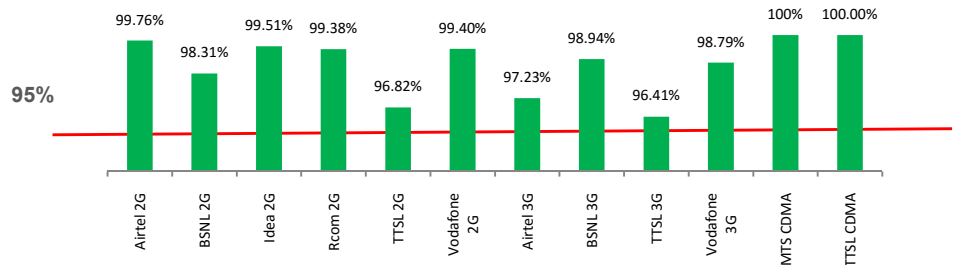
Operator Performance against Key Performance Indicators :

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

All operators have met **Call Setup Success Rate Benchmark of 95 %**

Refer. Fig 1

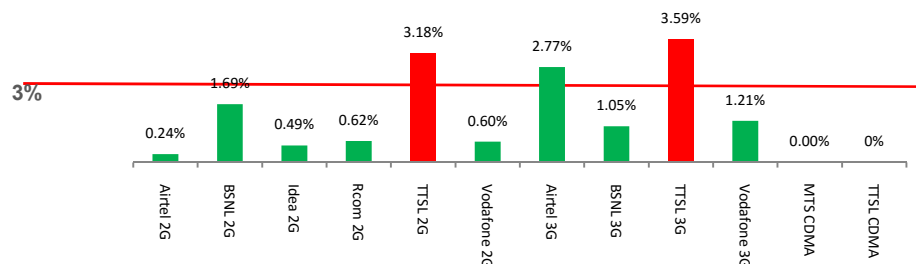
Fig 1 Call Setup Success Rate



All operators have met **Blocked Call Rate Benchmark of <= 3 %** except Tata Tele Services Ltd 2G & 3G Network

Refer. Fig 2

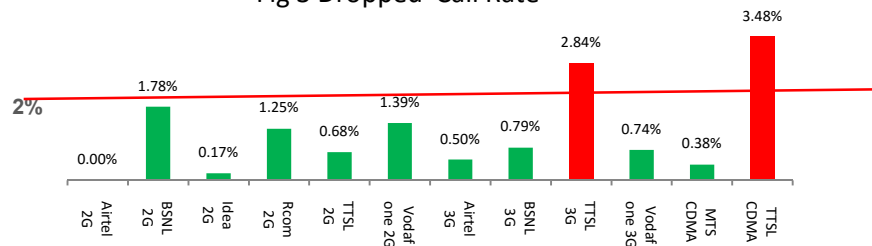
Fig 2 Blocked Call Rate



All operators have met **Dropped Call Rate Benchmark of <= 2 %** except Tata Tele Services Ltd 3G & CDMA Network

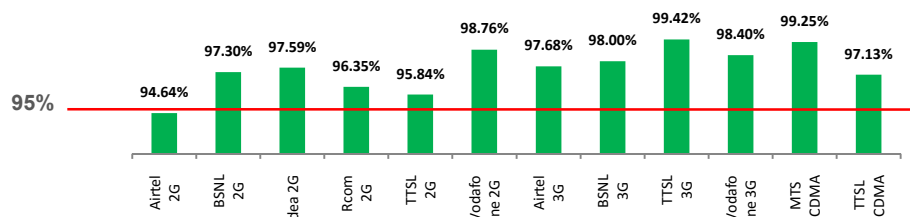
Refer. Fig 3

Fig 3 Dropped Call Rate



All operators have met **Rx Quality Benchmark of >=95 %**

Refer. Fig 4



**Legends** Threshold for each KPI are considered as per TRAI guidelines

**Current Drive: Feb 2017, Mangalore**

Operator meeting the benchmark

Operator not meeting the benchmark

**Abbreviation / Definition:**

CSSR (benchmark > =95%) :

BCR (benchmark <=3%) :

CDR (benchmark <=2%) :

Good RxQuality (benchmark >=95%) : 2G (RxQual <=5), 3G (EcNo >=-15dBm), CDMA (FER <=4%)

Call Setup Success Rate

Blocked Call Rate

Call Drop Rate

## Ancillary Details

### III. KPI Performance Summary

Call Events	Operators (Summary)											
	Airtel		BSNL		IDEA	MTS	RCOM	TATA			Vodafone	
	2G	3G	2G	3G	2G	CDMA	2G	CDMA	2G	3G	2G	3G
Call Attempts	418	397	534	379	607	791	482	466	597	390	502	413
Blocked Call Rate (<3%)	0.24 %	2.77 %	1.69 %	1.05 %	0.49 %	0.00 %	0.62 %	0 %	3.18 %	3.60 %	0.60 %	1.21 %
Drooped Call Rate (<2%)	0.00 %	0.50 %	1.78 %	0.80 %	0.17 %	0.38 %	1.25 %	3-48 %	0.68 %	2.84 %	1.40 %	0.74 %
Call Setup Success Rate (>=95%)	99.76 %	97.23 %	98.31 %	98.94 %	99.51 %	100 %	99.37 %	100 %	96.82 %	96.41 %	99.40 %	98.79 %
Hand Over Success Rate (HOSR) (>=58%)	97.67 %	99.90 %	99.29 %	100 %	98.61 %	100 %	99.82 %	100 %	90.36 %	96.39 %	99.20 %	100 %
Rx Quality >95 %	94.64 %	97.68 %	97.30 %	98.00 %	97.59 %	99.25 %	96.35 %	97.13 %	95.84 %	99.42 %	98.76 %	98.40 %