

# Drive Test Report

## March 2017

### Jamshedpur, Jharkhand

Key performance indicators all the operators: Most of the operators met the Call Drop Rate (CDR) benchmark of  $\leq 2\%$  Call Setup Success Rate (CSSR) Bench Mark of  $\geq 95\%$ , Voice Quality Benchmark of  $\geq 95\%$

#### Methodology:

Drive test was conducted in City Jamshedpur, Jharkhand & surrounding areas from 8:00 AM to 8.00 PM on 23<sup>rd</sup> March 2017 and 8.00 AM to 4.00 PM on 24<sup>th</sup> March 2017. The total drive test covered was approximately 242 km over a period of 2 days. A total of ~3506 calls were made for Eight 2G networks, Four 3G networks and one CDMA networks operators .



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City-Level  
Performance

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Area-Level  
Performance

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## City-Level Details

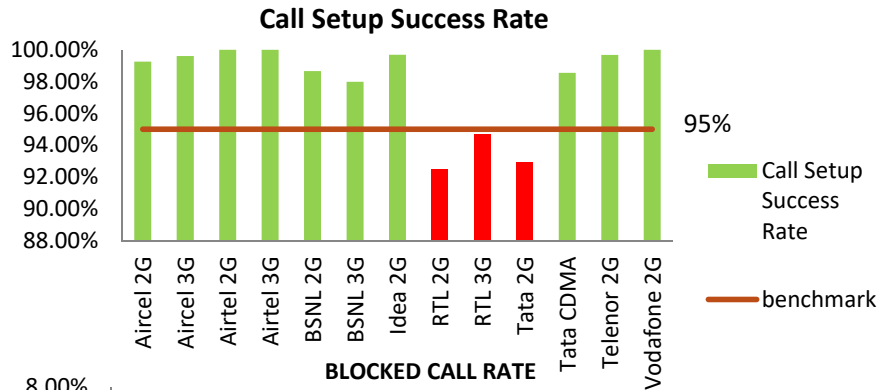
Operator Performance against Key Performance Indicators :

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

Most of the operators have met the Call Setup Success Rate benchmark of  $\geq 95\%$  except RTL 2G & 3G. & TTSL GSM Services

Refer. Fig 1

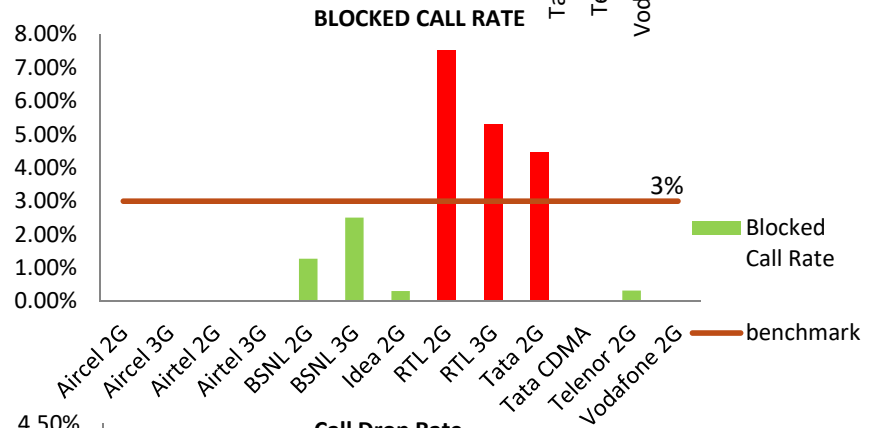
Figure.1: Call Setup Success Rate



Most of the operators have met the Blocked call Rate benchmark of  $\leq 3\%$  except RTL 2G & 3G, TATA 2G services..

Refer. Fig 2

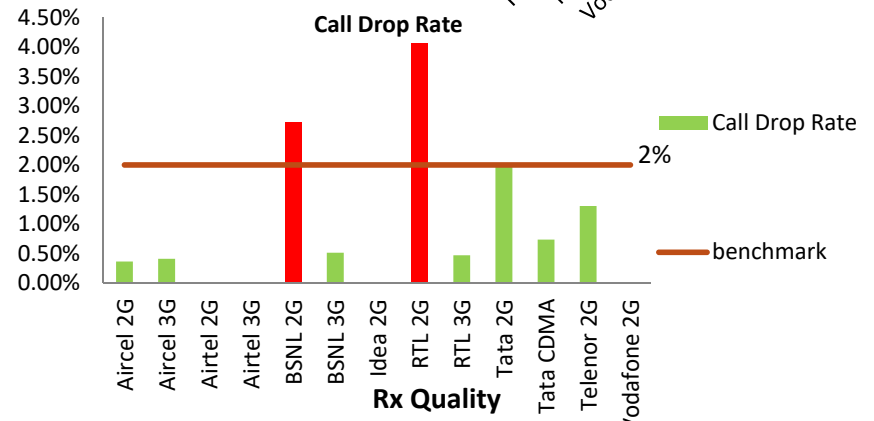
Figure.2: Blocked Call Rate



Most of the operators met the Call Drop Rate benchmark of  $\leq 2\%$ , except RTL 2G.

Refer. Fig 3

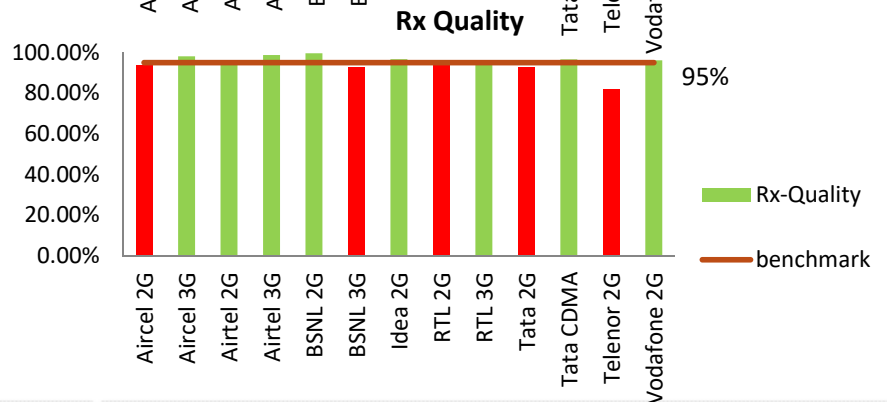
Figure.3: Call Drop Rate



Most of the operators met the Rx Quality benchmark of  $\geq 95\%$ , except AIRCEL 2G, BSNL 3G, RTL 2G, TATA 2G & TELENOR 2G Services.

Refer. Fig 4

Figure.4: Rx Quality



### Legends

Threshold for each KPI are considered as per TRAI guidelines

Current Drive: March 2017

Operator meeting the benchmark

Operator not meeting the benchmark

### Abbreviation / Definition:

CSSR (benchmark  $\geq 95\%$ ) :

Call Setup Success Rate

BCR (benchmark  $\leq 3\%$ ):

Blocked Call Rate

CDR (benchmark  $\leq 2\%$ ):

Call Drop Rate

Good RxQuality (benchmark  $\geq 95\%$ ): 2G (RxQual  $\leq 5$ ), 3G (EcNo  $\geq -15$ dBm), CDMA (FER  $\leq 4\%$ )

Call Events	OPERATORS ( SUMMARY)												
	Aircel 2G	Aircel 3G	Airtel 2G	Airtel 3G	BSNL 2G	BSNL 3G	Idea 2G	RTL 2G	RTL 3G	Tata 2G	Tata CDMA	Telenor 2G	Vodafone 2G
CALL ATTEMPT ( MAR-17)	277	245	341	283	223	199	320	266	226	269	276	308	340
BLOCKED CALL RATE ( MAR-17)	0.00%	0.00%	0.00%	0.00%	1.28%	2.51%	0.31%	7.52%	5.31%	4.46%	0.00%	0.32%	0.00%
CSSR ( ASSESSIBILITY) (MAR-17)	99.64%	99.59%	100.00%	100.00%	97.27%	99.49%	100.00%	95.93%	99.53%	98.00%	99.26%	98.70%	100.00%
DROPPED CALL RATE ( MAR-17)	0.36%	0.41%	0.00%	0.00%	2.73%	0.51%	0.00%	4.07%	0.47%	2.00%	0.74%	1.30%	0.00%
MOBILITY HOSR ( MAR-17)	98.98%	100.00%	100.00%	100.00%	98.69%	99.82%	99.75%	93.99%	100.00%	95.98%	99.90%	97.53%	100.00%
RX-QUALITY (MAR-17)	93.62%	98.09%	95.64%	98.67%	99.56%	92.45%	96.66%	93.33%	95.05%	92.45%	96.58%	81.77%	96.08%

Operator meeting benchmark

Operator not meeting benchmark

Data not available