



**TELECOM REGULATORY AUTHORITY OF INDIA**  
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**Comparative Performance of Telecom Service Providers in Bihar Service Area,  
Key Quality of Service (QoS) Parameters for Quarter Ending December 2010**

**Cellular Mobile Telephone Service**

Name of the Service Provider	QoS Parameter (Benchmark) →	Base Stations (BTS) Accumulated downtime: Non-availability of Mobile network in a month in %age (≤ 2%)	Accessibility: %age of calls made by subscribers and successful within operator's network (≥ 95%)	Connection Maintenance (Retainability)		Resolution of billing / charging complaints: %age of billing/charging complaints resolved within 4 weeks (100% within 4 weeks)
				Call Drop Rate: %age of established calls getting disconnected due to network problems (≤ 2%)	%age of Calls with good voice quality (≥ 95%)	
Bharti Airtel	Data Reported by Service Provider	0.09	98.12	1.21	98.02	100
BSNL		1.28	96.88	1.52	96.57	100
Dishnet		0.49	98.38	1.70	94.95	100
Etisalat		4.72	99.61	0.31	98.86	100
Idea		1.03	98.22	1.45	95.56	100
Reliance Comm. (CDMA)		0.59	99.65	0.90	96.31	100
Reliance Telecom		0.26	97.52	1.35	95.83	100
Sistema		1.83	99.27	0.22	99.49	100
STel		1.88	97.22	0.34	97.21	100
Tata Tele. (CDMA)		0.10	99.74	0.34	99.73	100
Tata Tele. (GSM)		0.02	97.91	0.77	98.08	100
Uninor		0.40	97.40	1.76	96.44	100
Videococon		0.53	98.90	0.55	98.90	100
Vodafone		0.45	95.85	1.29	96.18	100

**Basic Telephone Service (Wireline)**

Name of the Service Provider	QoS Parameter (Benchmark) →	Fault incidence: No. of faults per 100 subscribers per month (≤ 5)	Fault Repair: %age of faults repaired within one day of booking (≥ 90%)	Mean Time to Repair: the average time taken to repair a fault. (≤ 8 Hrs)	Resolution of billing / charging complaints: %age of billing/charging complaints resolved within 4 weeks (100% within 4 weeks)
BSNL (Bihar)	Data Reported by Service Provider	2.94	84.23%	7.20	NR
BSNL (Jharkhand)		3.30	95.24%	6.61	NR
Tata Teleservices		2.0	92.47%	5.85	100%

shaded boxes indicate benchmark not met

NR - Data Not Reported

(Issued in Public Interest by TRAI)