



TELECOM REGULATORY AUTHORITY OF INDIA
Mahanagar Doorsanchar Bhavan,
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New Delhi - 110 002

Comparative Performance of Telecom Service Providers in Punjab Service Area,
Key Quality of Service (QoS) Parameters for Quarter Ending December 2009

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%)	
Data Reported by						
Bharti Airtel	Service Provider	0.13%	98.40%	1.12%	98.21%	100.0%
	Audit Agency (IMRB)	0.12%	98.14%	1.22%	100.00%	100.0%
BSNL	Service Provider	0.83%	97.33%	1.33%	98.00%	100.0%
	Audit Agency (IMRB)	0.64%	95.94%	1.14%	98.00%	100.0%
HFCL - CDMA	Service Provider	1.47%	99.19%	0.98%	97.44%	100.0%
	Audit Agency (IMRB)	0.00%	99.36%	0.78%	96.11%	100.0%
Reliance Comm	Service Provider	0.07%	98.78%	0.67%	99.37%	100.0%
	Audit Agency (IMRB)	0.06%	98.68%	0.66%	99.23%	100.0%
Spice Comm.	Service Provider	0.03%	98.97%	1.01%	98.14%	100.0%
	Audit Agency (IMRB)	0.03%	99.00%	1.01%	98.21%	100.0%
Tata Teleservices	Service Provider	0.02%	98.57%	0.77%	98.93%	99.0%
	Audit Agency (IMRB)	0.02%	98.50%	0.85%	99.52%	95.1%
Vodafone Essar	Service Provider	0.03%	98.98%	0.93%	98.38%	100.0%
	Audit Agency (IMRB)	0.01%	99.05%	0.92%	98.39%	100.0%

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)
Bharti Airtel	Service Provider	2.58	95.90%	7.87	100.00%
	Audit Agency (IMRB)	2.70	95.14%	7.00	100.00%
BSNL	Service Provider	7.04	87.67%	11.77	NR
	Audit Agency (IMRB)	3.50	81.81%	4.50	100.00%
HFCL	Service Provider	3.40	98.24%	4.70	100.00%
	Audit Agency (IMRB)	4.00	98.40%	4.70	100.00%
RCOM	Service Provider	0.49	100.00%	NR	100.00%
	Audit Agency (IMRB)	1.67	95.97%	4.23	100.00%
Tata Teleservices	Service Provider	0.60	87.08%	3.40	60.00%
	Audit Agency (IMRB)	0.70	97.14%	3.20	100.00%

shaded boxes indicate benchmark not met

NA - Not Applicable

NR - Data Not Reported

(Issued in Public Interest by TRAI)