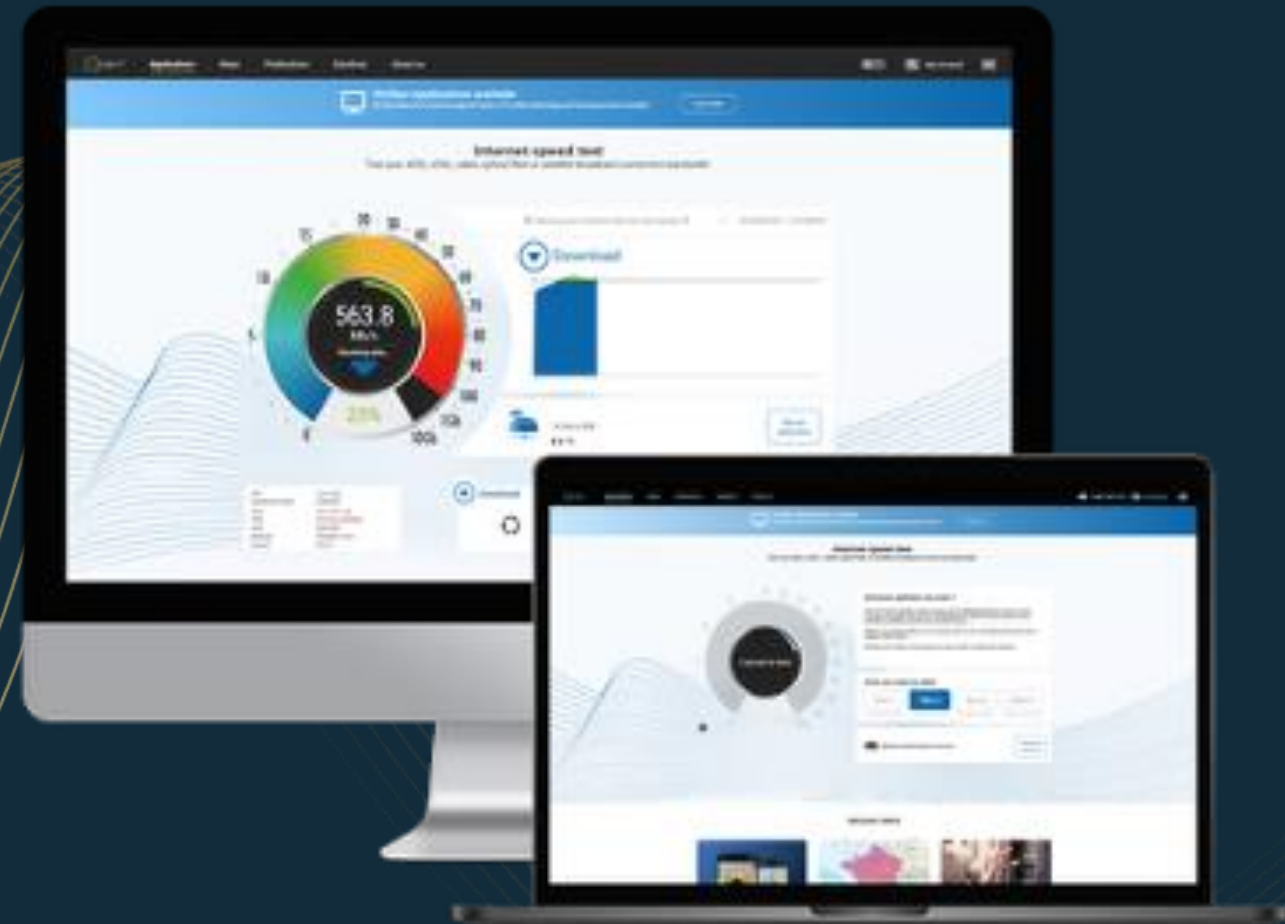




# Barometer of fixed Internet connections in India

04/01/2025 - 03/31/2026



**1**

**Introducing  
nPerf**

**2**

**Executive  
summary**

**3**

**Analysis**

**4**

**Methodology**

**5**

**nPerf Network  
assessment**

### An independent authority in network performance

nPerf is an independent French Internet performance measurement platform, powered by real user experience. By turning millions of individual measurements into connectivity insights, nPerf helps operators enhance their networks and contributes to building a faster, more reliable Internet for everyone.

 **300k+** tests daily worldwide.

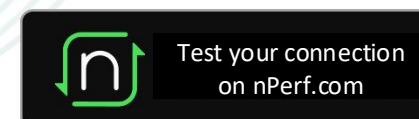
 **26Md+** coverage scans in total.

 **3k+** servers all around the world.

### A comprehensive suite of tools to measure real-world connectivity

nPerf provides a complete ecosystem of complete measurement tools designed to capture the true quality of fixed, mobile, and Wi-Fi connections with precision, reaching speeds of up to 10 Gbps.

Users test. Operators learn. Everyone benefits.



## 2. Executive Summary



The subscribers of BSNL enjoyed the best Fixed Internet performances in 2026 in India.

Fixed Internet performance in India

|                            | Airtel | <u>BSNL</u> | Jio    |
|----------------------------|--------|-------------|--------|
| ▼ Download bitrates (Mb/s) | 62.38  | 78.53       | 79.58  |
| ▲ Upload bitrates (Mb/s)   | 38.71  | 75.26       | 33.46  |
| ◀▶ Latency (ms)            | 57.48  | 42.96       | 62.61  |
| 🌐 Web browsing (%)         | 63.53  | 69.18       | 63.15  |
| 📺 Youtube streaming (%)    | 74.20  | 76.65       | 70.86  |
| 🏆 nPerf Score (nPoints)    | 74 975 | 89 174      | 73 957 |

Source : nPerf.com

  
**BSNL**  
Best Fixed Internet performance  
in 2026  
  
Source : nPerf.com

nPerf Podium



Source : nPerf.com

The subscribers of BSNL enjoyed the best WIFI Internet in 2026 in India.

Fixed Internet performance in India

|                                                                                                            | Airtel | <u>BSNL</u> | Jio    |
|------------------------------------------------------------------------------------------------------------|--------|-------------|--------|
|  Download bitrates (Mb/s) | 45.07  | 52.69       | 37.64  |
|  Upload bitrates (Mb/s)   | 35.50  | 49.42       | 32.42  |
|  Latency (ms)            | 55.36  | 45.72       | 57.29  |
|  Web browsing (%)       | 71.20  | 72.99       | 70.42  |
|  Youtube streaming (%)  | 79.94  | 80.10       | 80.02  |
|  nPerf Score (nPoints)  | 78 303 | 85 479      | 74 904 |

Source : nPerf.com

The subscribers of Airtel and Jio enjoyed the best FTTH Internet in 2026 in India.

Fixed Internet performance in India

|                                                                                                            | Airtel  | BSNL    | Jio     |
|------------------------------------------------------------------------------------------------------------|---------|---------|---------|
|  Download bitrates (Mb/s) | 241.72  | 198.54  | 225.18  |
|  Upload bitrates (Mb/s)   | 223.83  | 213.95  | 221.86  |
|  Latency (ms)            | 35.22   | 34.38   | 33.76   |
|  Web browsing (%)       | 78.63   | 78.52   | 79.44   |
|  Youtube streaming (%)  | 86.72   | 84.79   | 87.06   |
|  nPerf Score (nPoints)  | 125 789 | 121 780 | 126 334 |

Source : nPerf.com

The best fixed-line Internet performances in India for the 2025–2026 period reveal a dynamic and competitive landscape, with all three major operators — BSNL, Airtel, and Jio — recording meaningful gains across key network indicators. This year's nPerf barometer highlights a sector in full acceleration, driven by the continued rollout of fiber infrastructure and a general uplift in overall performance that benefits end users nationwide.

#### **BSNL: A Remarkable Rise to the Top**

After holding second place in the overall ranking during the previous period, BSNL has made a decisive leap forward, claiming the top position in India's fixed-line barometer for 2025–2026. This progression reflects a consistent upward trend that nPerf has observed across five consecutive years of measurement. BSNL now leads across every key performance indicator in the overall category, with a particularly striking improvement in Download speed (Mb/s), which surged by 21% compared to the previous year — reaching 78.53 Mb/s overall and 198.54 Mb/s on FTTH connections. On WiFi, BSNL also tops the ranking with a score of 85,479, outperforming both Airtel and Jio, while maintaining the best results in Upload speed (Mb/s) and Latency (ms) across connection types. This all-around dominance marks a significant milestone for the operator.

#### **Airtel: Steady Momentum and a Podium Gain**

Airtel enters the 2025–2026 period with renewed confidence, climbing one position in the overall ranking to reach second place — a direct reflection of a trajectory that nPerf has tracked as consistently positive over the past five years. The operator delivers a strong performance across all technologies, with a notable 10% improvement in Download speed (Mb/s) year-on-year, reaching 62.38 Mb/s overall and an impressive 241.72 Mb/s on FTTH — the highest FTTH Download speed

(Mb/s) recorded among all operators this period. On WiFi, Airtel retains strong scores in Web Browsing (%) and Youtube streaming (%), remaining highly competitive in the daily-use experience metrics that matter most to subscribers.

#### **Jio: Download Leadership and Room to Grow**

Jio remains a major force in India's fixed-line sector, recording the strongest improvement in Download speed (Mb/s) among all operators this period — up 33% year-on-year — and claiming the top rank on this metric in the overall category with 79.58 Mb/s. On FTTH, Jio leads the overall score with 126,334 points, confirming the strength of its fiber network. However, nPerf notes that Jio's overall score has declined compared to the previous period, dropping from first to third place in the overall ranking — a shift driven notably by weaker Upload speed (Mb/s) figures (33.46 Mb/s overall) and Latency (ms) performance relative to its competitors. Despite this, Jio's five-year trend remains upward, and the operator's fiber momentum provides a solid foundation.

#### **What's at Stake for 2026–2027**

As India's fixed-line sector continues to mature, the competitive gap between operators is tightening in some areas while widening in others. BSNL will need to sustain its gains in FTTH speed performance and further close the gap in Latency (ms) on non-fiber connections to consolidate its leadership. Airtel should prioritize Upload speed (Mb/s) improvements — currently its weakest metric in the overall ranking — to challenge BSNL more directly at the top. For Jio, the priority is clear: translating its outstanding FTTH download speeds into a more balanced performance profile, particularly by improving Upload speed (Mb/s) and Latency (ms) overall, which will be decisive in determining whether it can reclaim the top spot in next year's barometer.

## 4. Methodology



nPerf provides a free application to assess Internet connection quality via its website and mobile apps (Android, iOS). Daily, thousands of people rely on nPerf for speed tests in their country, contributing to a comprehensive crowdsourced database covering all operators.

The study employs a strong filtering method to reflect real customer experiences on a specific network (mobile or fixed line). Measures are taken to prevent probes and measurement robots from affecting the results.

We assess:

### ▼ Download bitrate

Indicates the amount of data your connection can receive in one second from the nPerf server. The highest the measured value, the best is the bitrate of your connection.

### ▲ Upload bitrate

Indicates the amount of data your connection can send in one second to the nPerf server. The highest the measured value, the best is the bitrate of your connection.

### ◄► Latency (ping)

It indicated the delay a small packet of data requires to make a round-trip from your computer to the nPerf server. The shorter the delay, the most reactive your connection is. The mean is the minimum value.

### 🌐 Browsing performance

The browsing test assesses the load time of the fully loaded pages, including images, javascript, CSS, and fonts, for the five most popular sites. This indicator reflects the perceived quality by the user.

### 📺 Streaming performance

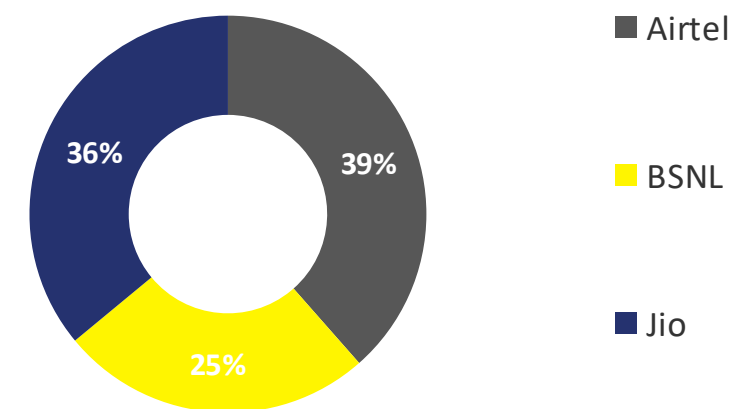
The video streaming test gauges the load time of a fully loaded video in three resolutions on YouTube, considering stalls during playback. This indicator reflects the perceived quality by the user.

Statistical precision is crucial in accurately determining winners. At nPerf, we prioritize test quality, precise reporting, and transparency. Analyzing a large volume of tests in this study, we've achieved 0.7% precision for absolute values and 1% point for percentage-based results, highlighting the reliability and accuracy of our data.

For a more comprehensive understanding of the user experience, our report takes into account test results during both Busy Hours (6 PM to 11 PM) and Idle Hours (the rest of the day). Busy Hours, marked by network strain, can impact user experience through congestion. This approach helps in understanding how network performance fluctuates throughout the day.

We only include national Internet service providers with test share above 5% share. The chart below shows the overall test distribution for each service provider.

Overall distribution of the tests per provider (ISPs Share)



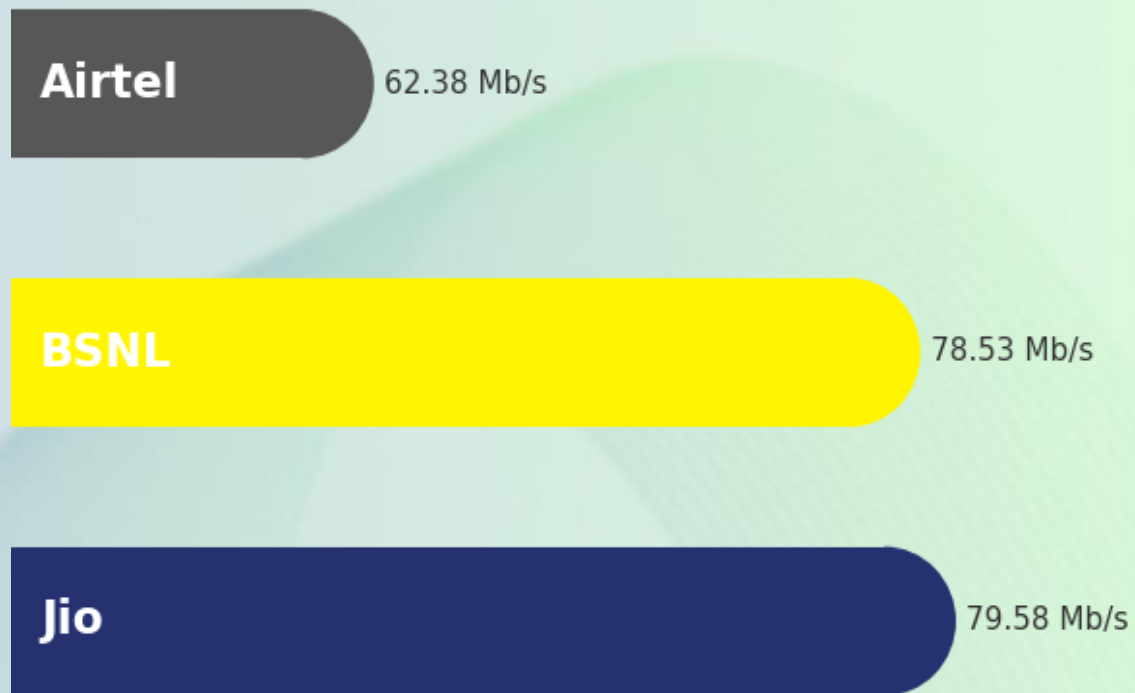
Source : nPerf.com



## Download Speed



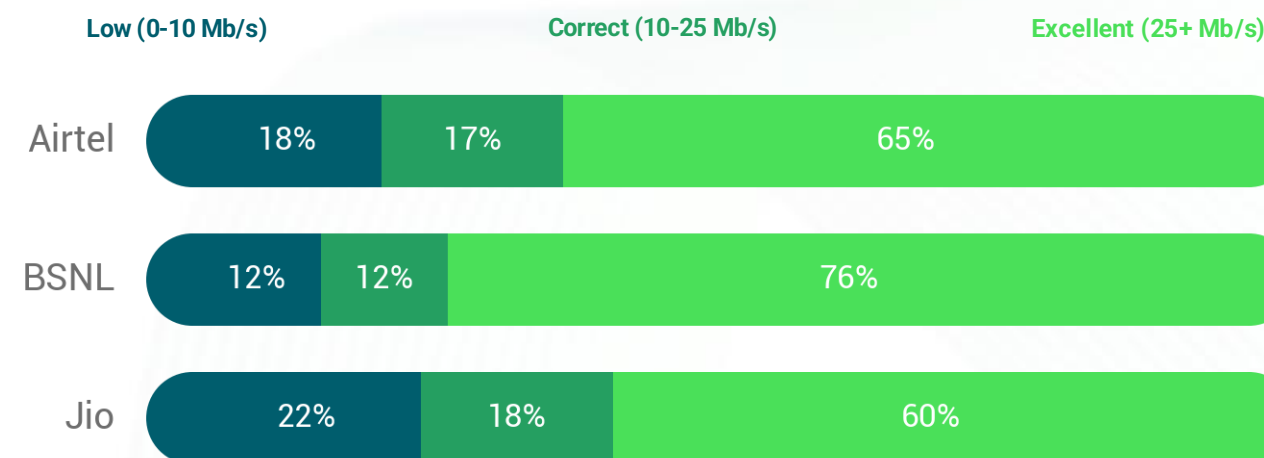
### Download Speed (average)



Source : nPerf.com

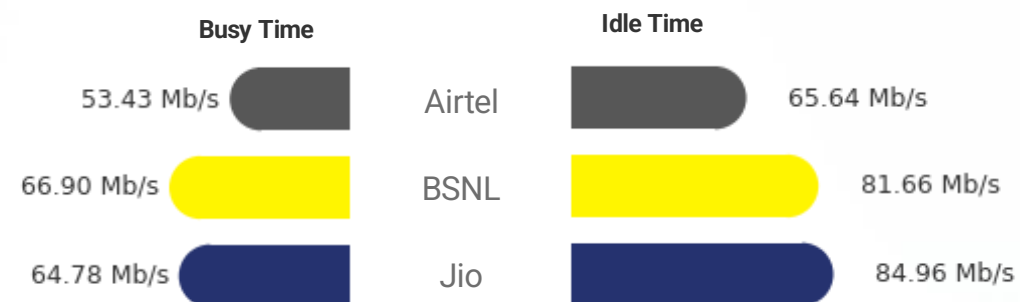
The subscribers of BSNL and Jio enjoyed the best Fixed Internet Download Speed in 2026.

### Download Speed results distribution (average)



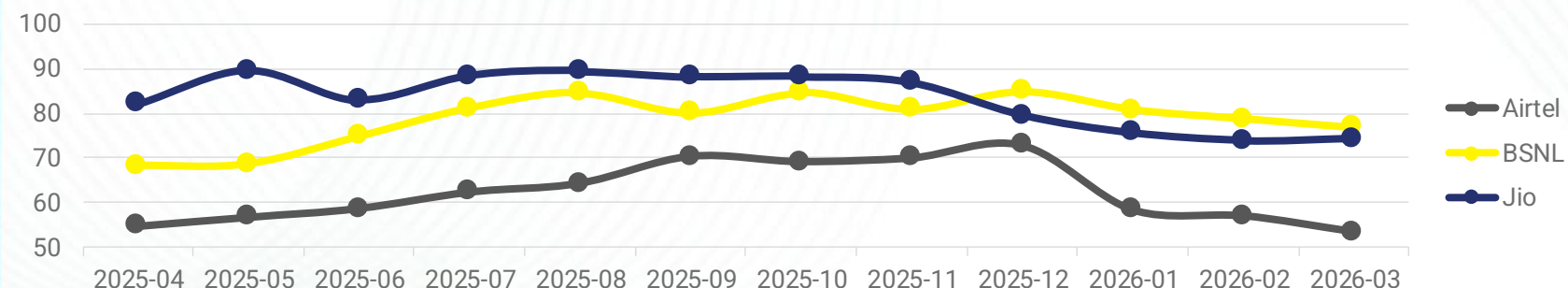
Source : nPerf.com

### Download Speed (average)



Source : nPerf.com

### Download Speed evolution over the year (average)



Source : nPerf.com



## Upload Speed



### Upload Speed (average)

Airtel

38.71 Mb/s

BSNL

75.26 Mb/s

Jio

33.46 Mb/s

Source : nPerf.com

The subscribers of BSNL enjoyed the best Fixed Internet Upload Speed in 2026.

### Upload Speed results distribution (average)

Low (0-5 Mb/s)

Correct (5-10 Mb/s)

Excellent (10+ Mb/s)

Airtel

34%

18%

48%

BSNL

14%

12%

74%

Jio

46%

17%

38%

Source : nPerf.com

### Upload Speed (average)

Busy Time

29.30 Mb/s

Airtel

Idle Time

42.14 Mb/s

64.21 Mb/s

BSNL

78.23 Mb/s

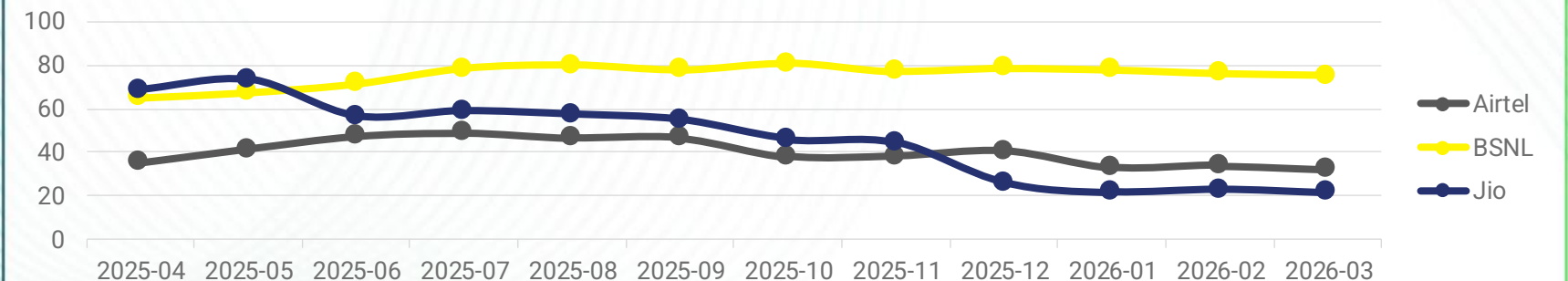
24.70 Mb/s

Jio

36.63 Mb/s

Source : nPerf.com

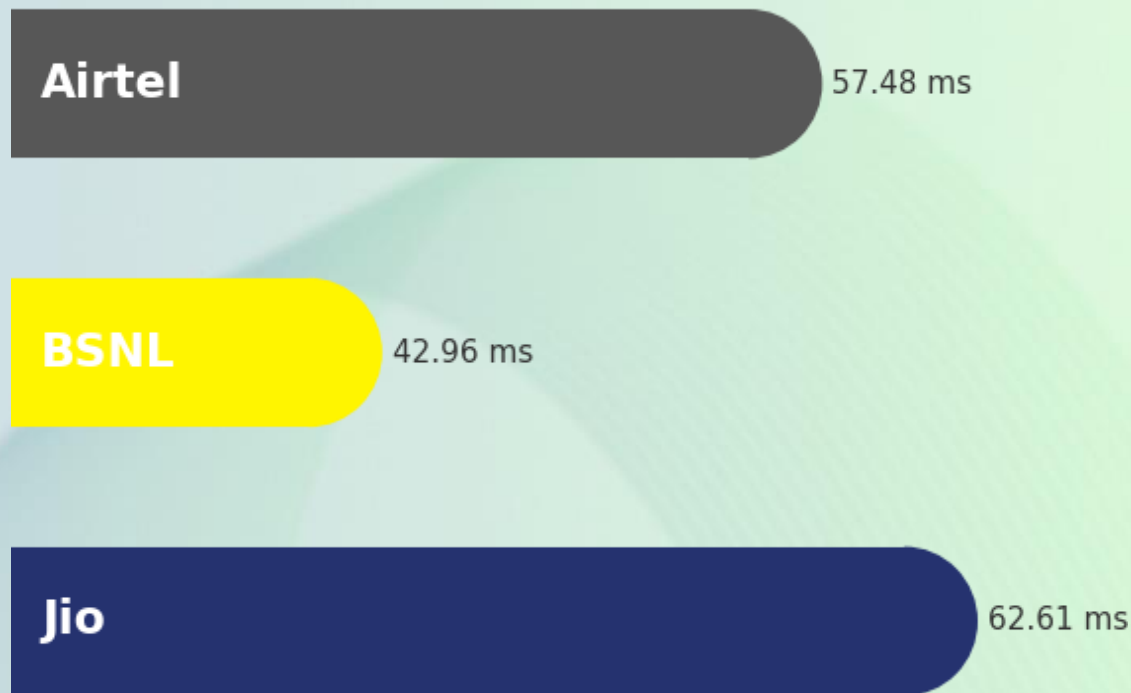
### Upload Speed evolution over the year (average)



Source : nPerf.com



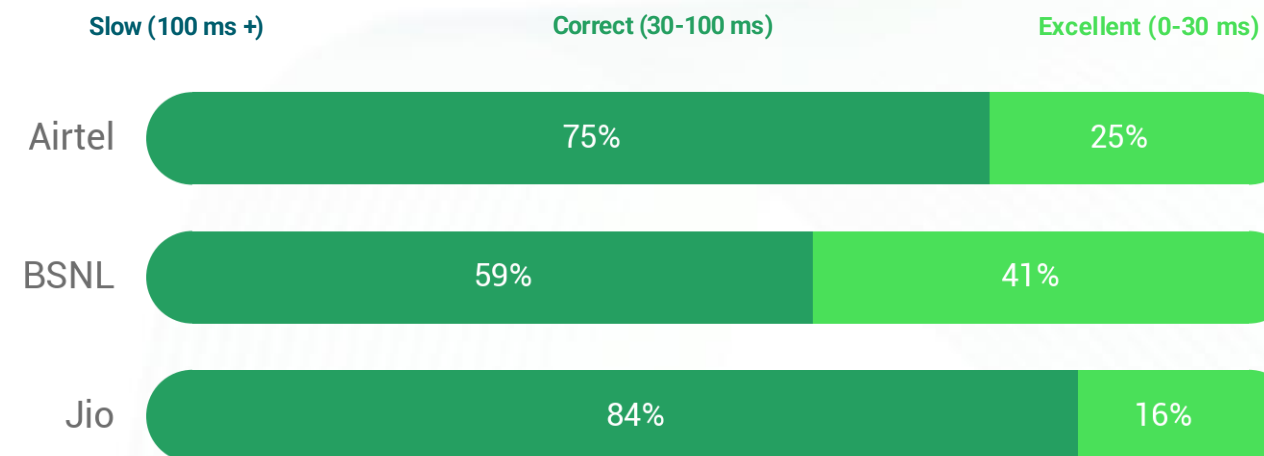
### Latency (average)



Source : nPerf.com

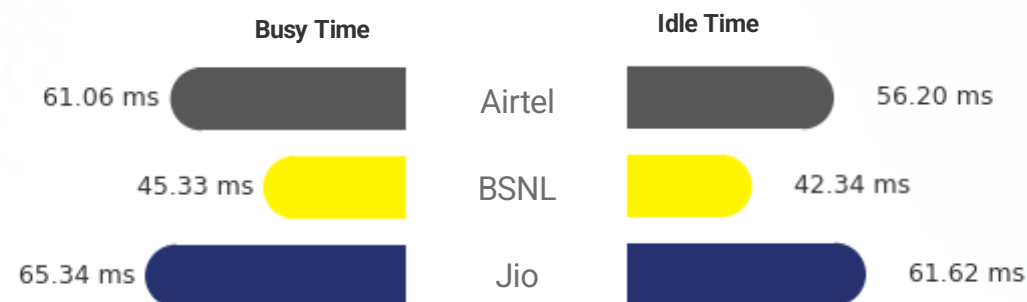
The subscribers of BSNL enjoyed the best Fixed Internet Latency in 2026.

### Latency results distribution (average)



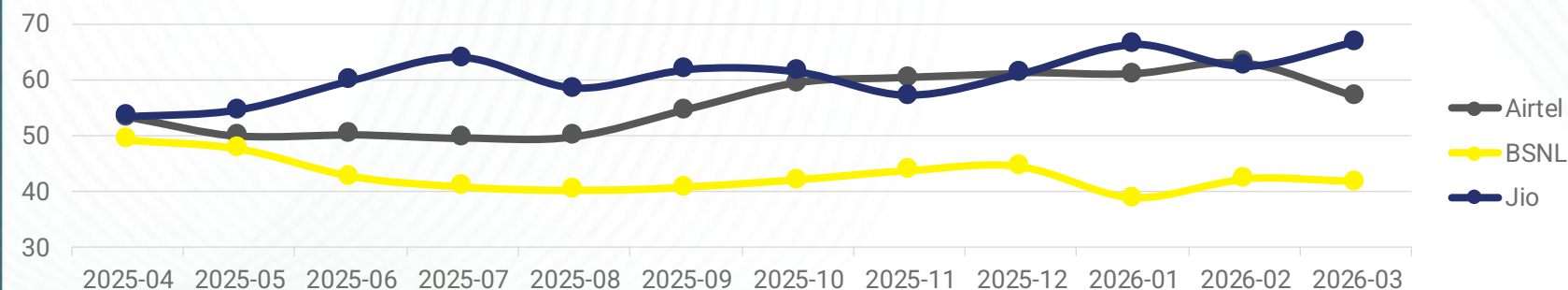
Source : nPerf.com

### Latency (average)



Source : nPerf.com

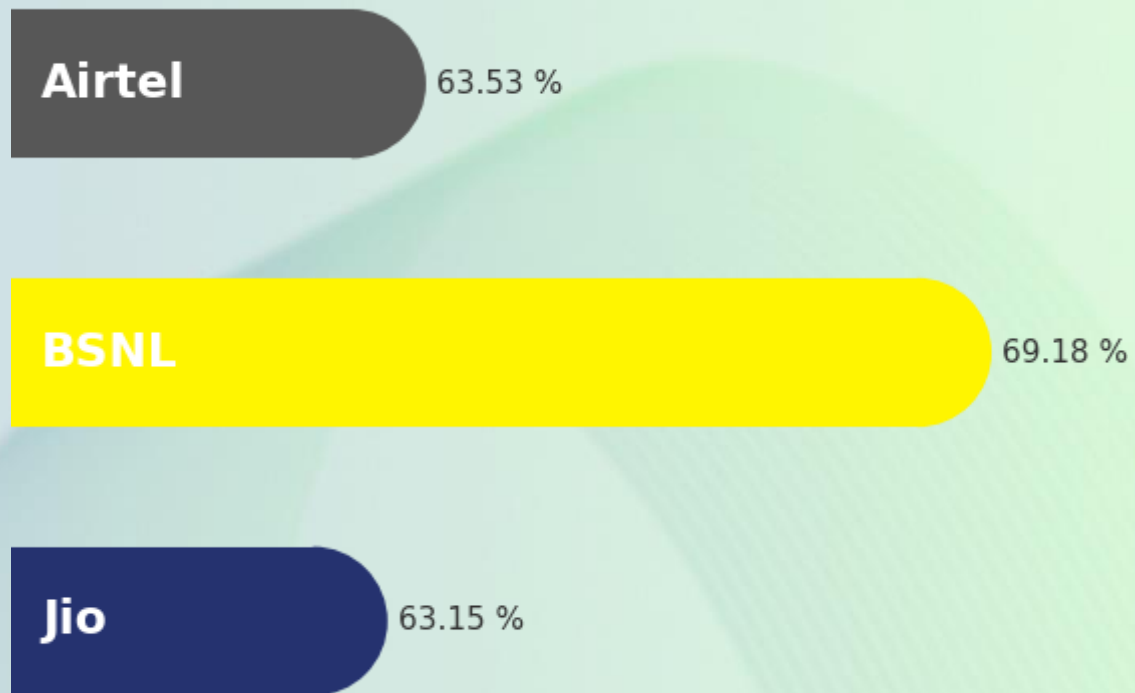
### Latency evolution over the year (average)



Source : nPerf.com



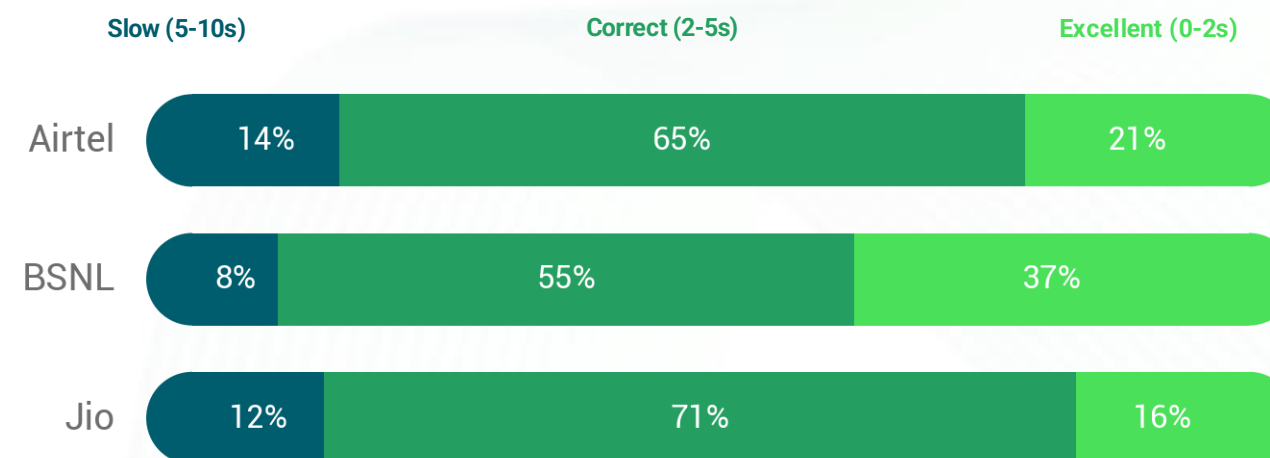
## Browsing Performance (average)



Source : nPerf.com

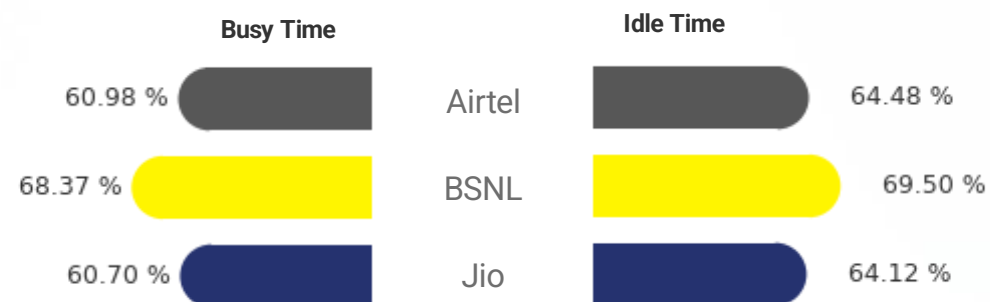
The subscribers of BSNL enjoyed the best Fixed Internet Browsing Performance in 2026.

## Browsing Performance results distribution (average)



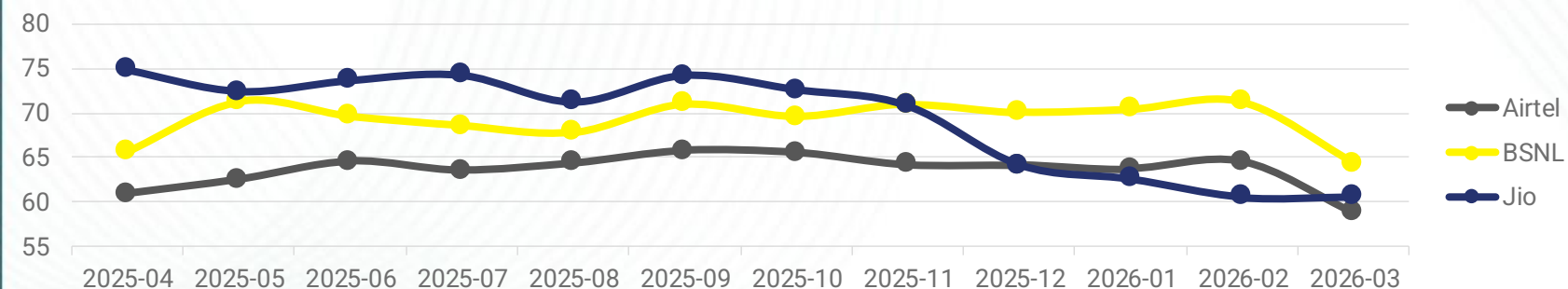
Source : nPerf.com

## Browsing Performance (average)



Source : nPerf.com

## Browsing Performance evolution over the year (average)



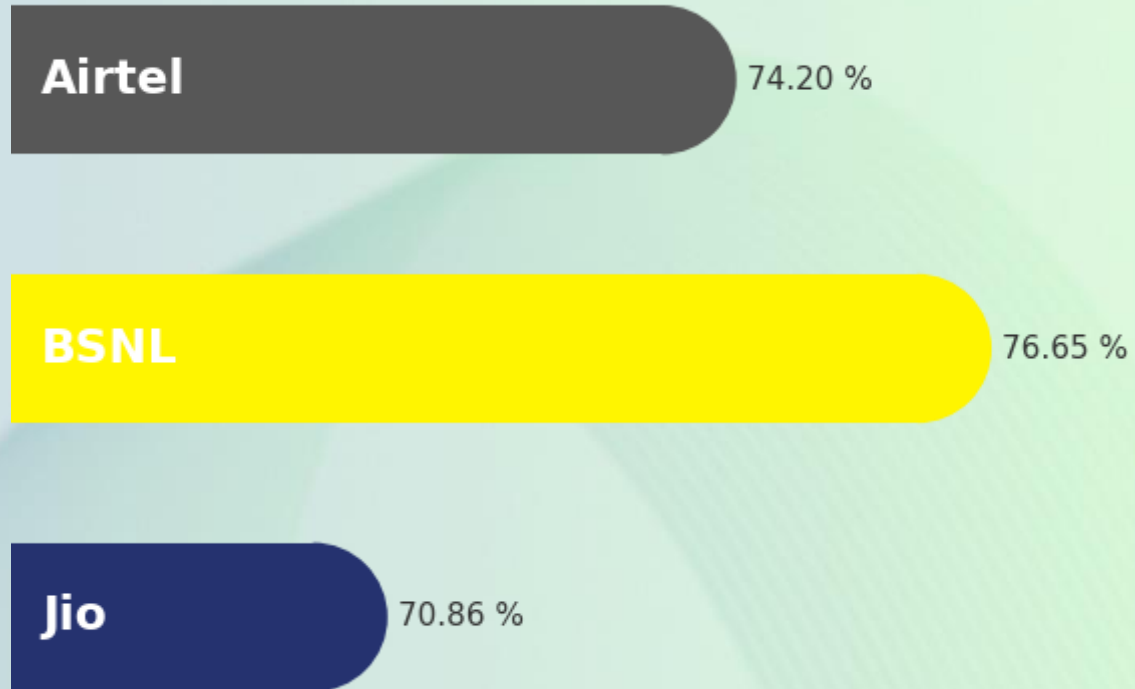
Source : nPerf.com



## Streaming Performance



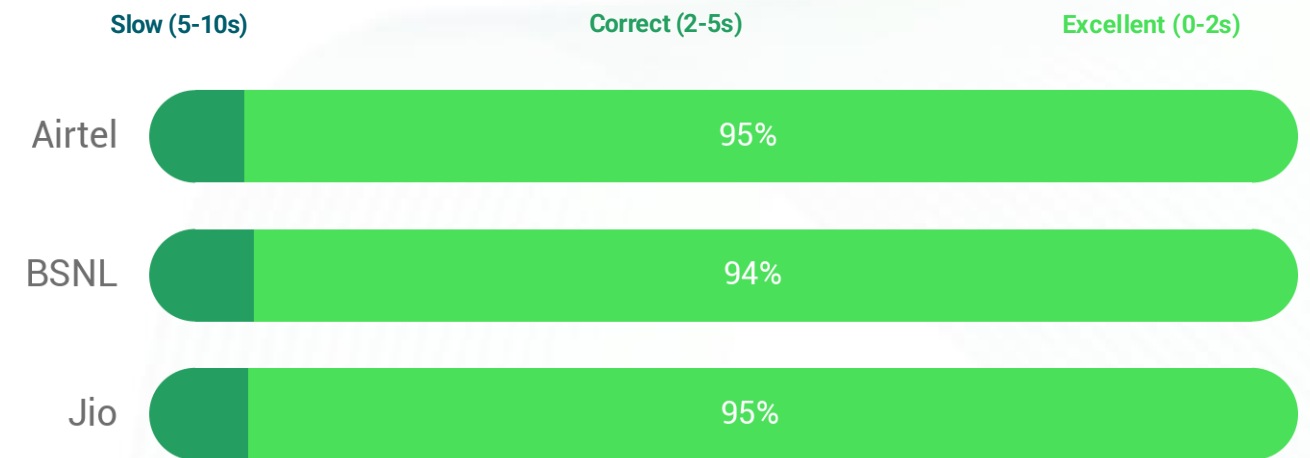
### Streaming Performance (average)



Source : nPerf.com

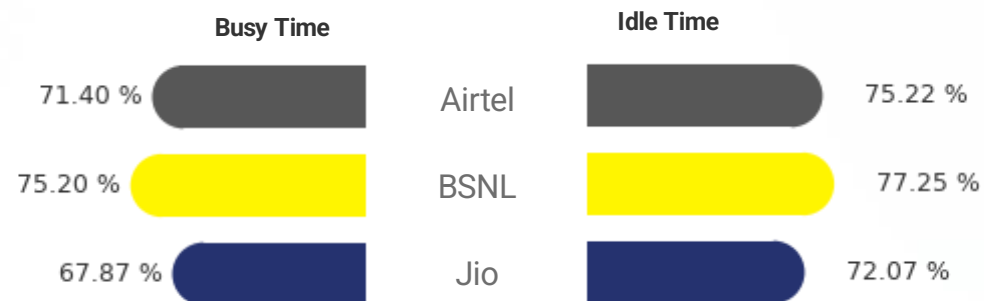
The subscribers of BSNL enjoyed the best Fixed Internet Streaming Performance in 2026.

### Streaming Performance results distribution (average)



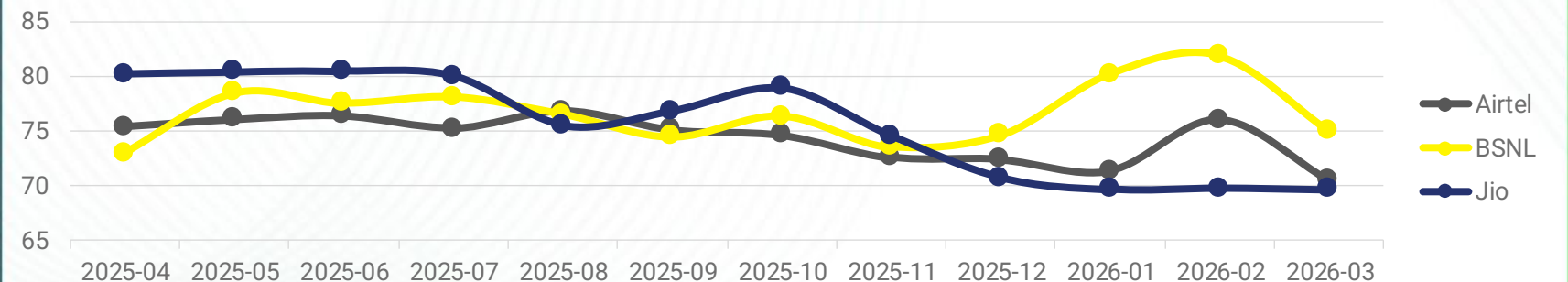
Source : nPerf.com

### Streaming Performance (average)



Source : nPerf.com

### Streaming Performance evolution over the year (average)



Source : nPerf.com

## nPerf Score (nPoints)

Airtel

78 303

BSNL

85 479

Jio

74 904

Source : nPerf.com

The subscribers of BSNL enjoyed the best WIFI Internet in 2026.

Best performances WIFI: BSNL

Fastest performances (Download Speed) WIFI: BSNL

Fastest performances (Upload Speed) WIFI: BSNL

WIFI connections with the lowest latency: BSNL

Best web browsing performances WIFI: BSNL

Best streaming performances WIFI: Airtel, BSNL and Jio

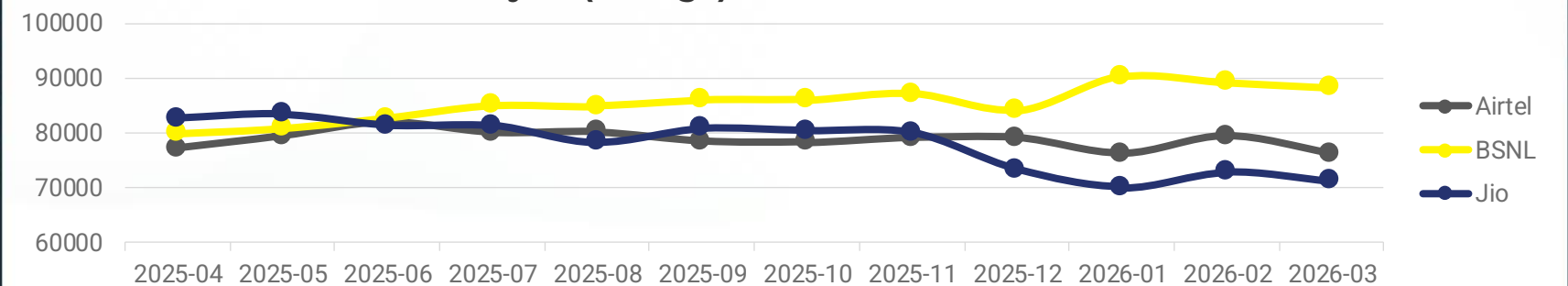
Source : nPerf.com

## nPerf Podium



Source : nPerf.com

## nPerf Score evolution over the year (average)



Source : nPerf.com

## nPerf Score (nPoints)

Airtel

125 789

BSNL

121 780

Jio

126 334

Source : nPerf.com

The subscribers of Airtel and Jio enjoyed the best FTTH Internet in 2026.

Best performances FTTH: Airtel and Jio

Fastest performances (Download Speed) FTTH: Airtel

Fastest performances (Upload Speed) FTTH: Airtel and Jio

FTTH connections with the lowest latency: BSNL and Jio

Best web browsing performances FTTH: Airtel, BSNL and Jio

Best streaming performances FTTH: Airtel and Jio

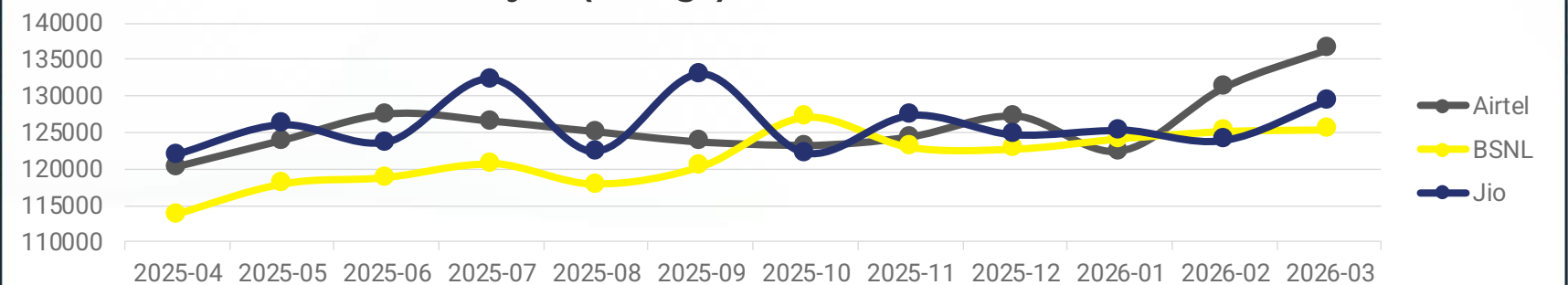
Source : nPerf.com

## nPerf Podium



Source : nPerf.com

## nPerf Score evolution over the year (average)



Source : nPerf.com



## nPerf Score (nPoints)

Airtel

74 975

BSNL

89 174

Jio

73 957

Source : nPerf.com

The subscribers of BSNL enjoyed the best Fixed Internet performances in 2026.

The nPerf score takes into account the measured bitrates, the latency and the QoE tests. The value of the points for the rates and the latency is calculated on a logarithmic scale, to better represent the perception of the user.

Thus, this score reflects the overall quality of the connection experienced by the user.

Source : nPerf.com



Best Fixed Internet performance in 2026



2



1

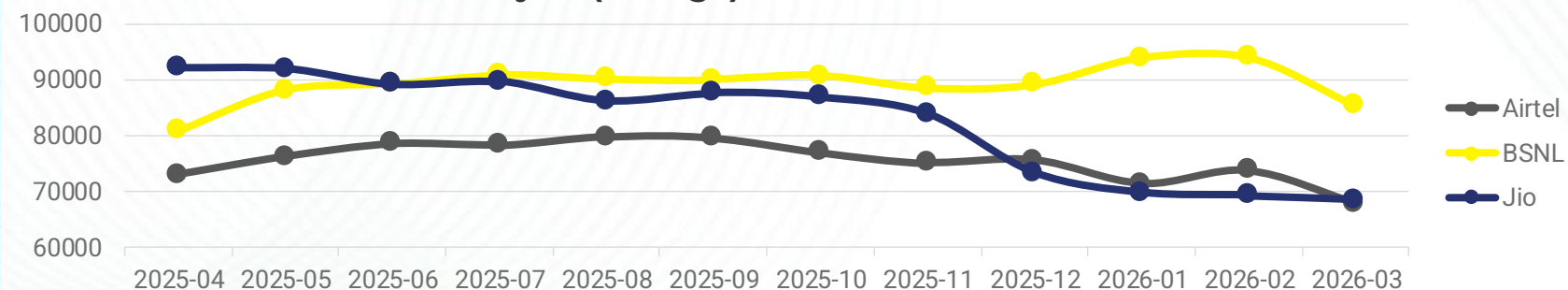


2

nPerf Podium

Source : nPerf.com

## nPerf Score evolution over the year (average)



Source : nPerf.com

