



## WAN Link Performance & Sizing Report

**\*\*Location:\*\*** KOLKATA-Lenslab-branch, KOLKATA

**\*\*Vendor:\*\*** RELIANCE JIO INFOCOMM LIMITED

**\*\*Link Type:\*\*** ILL

**\*\*Business Hours:\*\*** 00:00–19:00

**\*\*Provisioned Speed:\*\*** 10.0 Mbps

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### 1. Usage Pattern Analysis

The link is significantly underutilized, with average usage at only 5.3% of its 10 Mbps capacity. Traffic patterns align with business hours, which account for over 82% of data transfer. However, the connection experiences infrequent but extremely high traffic bursts, with a recorded peak of 64.35 Mbps. These anomalies suggest specific, high-demand processes rather than consistent user load.

### 2. Capacity Planning Recommendations

The current 10 Mbps circuit is heavily over-provisioned for sustained operational needs. Rightsizing based on the 95th percentile usage (1.69 Mbps) is recommended for cost optimization.

- **\*\*Conservative:\*\*** 2.0 Mbps

- **\*\*Balanced (Recommended):** 3.0 Mbps

- **\*\*Aggressive:\*\*** 71.0 Mbps (Not recommended)

A 3.0 Mbps plan provides a significant buffer for growth and usage spikes.

### 3. Performance Risks & Bottlenecks

The primary risk is performance degradation caused by extreme traffic bursts. While infrequent, peak usage far exceeds the 10 Mbps provisioned limit, resulting in packet loss and congestion during those moments. This is confirmed by 198 minutes of usage exceeding 90% capacity. The source of these bursts should be investigated.

### Conclusion

The link is over-provisioned and should be downgraded to a **\*\*3 Mbps\*\*** plan to align with actual usage and reduce operational costs.

## Visual Insights

