



## Network Performance & Capacity Report

**\*\*Location:\*\*** Pune Teal, Pune  
**\*\*Vendor:\*\*** JIO  
**\*\*Link Type:\*\*** ILL  
**\*\*Provisioned Speed:\*\*** 100.0 Mbps  
**\*\*Business Hours:\*\*** 09:00–18:00

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### 1. Usage Pattern Analysis

The 100 Mbps link is significantly underutilized, with an average usage of only 1.5%. While traffic appropriately peaks during business hours, sustained usage remains very low. However, the data reveals a critical anomaly: infrequent but intense traffic bursts that saturate the link, indicating a highly variable workload.

### 2. Capacity Planning Recommendations

The circuit is substantially over-provisioned. Based on sustained peak demand (95th percentile at 7.22 Mbps), a right-sized capacity is recommended.

\* **\*\*Conservative:\*\*** 8.7 Mbps

\* **\*\*Balanced:\*\*** 11 Mbps

\* **\*\*Aggressive (with growth buffer):\*\*** 12.6 Mbps

We suggest adopting the **\*\*Balanced\*\*** provisioning target of **\*\*11 Mbps\*\***.

### 3. Performance Risks & Bottlenecks

Despite low average utilization, there is a tangible risk of performance degradation. Peak usage has been measured at 113.88 Mbps, exceeding the provisioned capacity. These congestion events, though brief (42 minutes total), cause packet loss and will negatively impact application performance for end-users.

### Conclusion

The link should be downgraded to reduce costs while aligning with realistic usage; we recommend re-provisioning to **\*\*11 Mbps\*\***.

## Visual Insights

