



## WAN Link Performance & Strategy Report

**\*\*Location:\*\*** Kolkata-CFA-Branch, Kolkata

**\*\*Vendor:\*\*** BHARTI AIRTEL LIMITED

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

**\*\*Business Hours:\*\*** 10:00–18:00

**\*\*Provisioned Speed:\*\*** 20.0 Mbps

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### 1. Usage Pattern Analysis

The 20 Mbps link is significantly underutilized, with average usage at only 1.2% of its capacity. While traffic is higher during business hours, overall utilization remains extremely low. The key anomaly is the presence of infrequent but extreme usage spikes, with a recorded peak of 41.92 Mbps—more than double the provisioned speed. These bursts represent unusual activity on an otherwise quiet link.

### 2. Capacity Planning Recommendations

This circuit is severely over-provisioned for its typical workload. Based on sustained usage (95th percentile at 0.97 Mbps), a significant downgrade is warranted. Strategic provisioning options include: Conservative (1.2 Mbps), Balanced (1 Mbps), and Aggressive (46 Mbps). We recommend rightsizing this link to the **\*\*Balanced target of 1 Mbps\*\***.

### 3. Performance Risks & Bottlenecks

The primary risk is performance degradation during the brief, high-intensity traffic bursts that exceed the 20 Mbps circuit limit. While infrequent, these congestion events can cause temporary service interruptions or slowdowns for critical applications during those specific moments.

### Conclusion

This link should be downgraded to a **\*\*1 Mbps\*\*** plan to align capacity with actual usage, generating significant cost savings while addressing performance anomalies.

## Visual Insights

