



## WAN Link Performance & Recommendation Report

**\*\*Location:\*\*** Vijayawada CFA, Vijayawada

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

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

**\*\*Business Hours:\*\*** 09:00–18:00

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

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### 1. Usage Pattern Analysis

The 20 Mbps link is profoundly underutilized, with average usage below 1% of its provisioned capacity. While traffic is higher during business hours, it remains minimal overall, with a stable to declining usage trend. A notable anomaly was recorded: a brief, isolated burst that peaked at 44.10 Mbps, significantly exceeding the subscribed speed, before returning to normal low levels.

### 2. Capacity Planning Recommendations

This circuit is severely over-provisioned, presenting a clear opportunity for cost optimization. Analysis of sustained usage shows that for 95% of the time, traffic is below 0.57 Mbps. We recommend right-sizing the link based on the following data-driven options:

- **\*\*Conservative:\*\*** 0.7 Mbps
- **\*\*Balanced (Recommended):\*\*** 1 Mbps
- **\*\*Aggressive:\*\*** 49 Mbps

A **\*\*1 Mbps\*\*** plan is the recommended balanced approach.

### 3. Performance Risks & Bottlenecks

The primary business risk is financial inefficiency. While current performance is excellent, the observed 44.10 Mbps peak indicates a process capable of generating extreme, short-term demand. On a right-sized circuit, such a burst—if repeated—could cause temporary congestion and application performance degradation. This behavior warrants investigation but does not invalidate the need for right-sizing.

### Conclusion

This link should be downgraded from 20 Mbps to a **\*\*1 Mbps\*\*** plan to align with actual demand, delivering significant cost savings while safely supporting typical usage patterns.

## Visual Insights

