Network Performance & Capacity Report

* **Location:** Noida-Lenslab-branch, Noida
* **Vendor:** BHARTI AIRTEL LIMITED
* **Link Type:** Broadband
* **Business Hours:** 00:00–18:00
* **Provisioned Speed:** 300.0 Mbps

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1. Usage Pattern Analysis

The 300 Mbps link is profoundly underutilized, with average usage at just 0.3% of its capacity. Bandwidth demand is consistently low during both business and off-hours. A single, momentary peak reached 99.5% capacity, but this was an isolated event, with sustained high usage being non-existent. The overall usage trend is stable with negligible growth.

2. Capacity Planning Recommendations

The circuit is significantly over-provisioned. We recommend right-sizing the link to better match actual demand and optimize costs. Based on usage data, provisioning targets are:

* **Conservative:** 2.7 Mbps
* **Balanced:** 3 Mbps
* **Aggressive:** 328 Mbps

We strongly recommend adopting the **Balanced 3 Mbps** plan.

3. Performance Risks & Bottlenecks

There is no operational risk of congestion or performance degradation. The primary risk associated with this link is financial inefficiency due to paying for unused capacity. The brief peak usage spike is an anomaly and does not represent a recurring bottleneck threat.

Conclusion

This link should be downgraded to a **3 Mbps** plan to align provisioning with actual usage and achieve significant cost savings.

Visual Insights

2 Hour Average Bandwidth Usage

Bandwidth Usage Distribution