



Network Performance & Capacity Report

****Location:**** Faridabad_Fragrance-CFA, Faridabad

****Vendor:**** SHYAM SPECTRA PVT LTD

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

****Business Hours:**** 09:00–18:00

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

1. Usage Pattern Analysis

The link is extremely underutilized, with average usage at only 1.4% of its provisioned capacity. While usage is higher during business hours, overall trends are stable with no growth. However, the connection experiences very brief but intense data bursts, indicating irregular, high-demand activity rather than sustained traffic. For 99% of the time, usage remains below 2 Mbps.

2. Capacity Planning Recommendations

The current 10 Mbps circuit is significantly over-provisioned for typical daily needs. Based on sustained 95th percentile usage of 0.59 Mbps, a right-sized plan is recommended.

* ****Conservative:**** 0.7 Mbps

* ****Balanced:**** 1 Mbps

* ****Aggressive:**** 39 Mbps

We recommend adopting the ****Balanced 1 Mbps**** plan.

3. Performance Risks & Bottlenecks

The primary risk is performance degradation during traffic spikes. Peak usage has been recorded at 35.43 Mbps, which severely exceeds the 10 Mbps capacity. These bursts, while infrequent, cause network congestion and potential data loss, leading to temporary application slowdowns for users.

Conclusion

This link is heavily over-provisioned and should be downgraded to a ****1 Mbps**** plan to achieve significant cost savings while still accommodating typical usage patterns.

Visual Insights

