

LigoPTP RapidFire 5 – N

TEST REPORT

India

LigoPTP RapidFire 5 - N REPORT

Radmax – a wireless internet service provider and LigoWave devices distributor in India has set up a 14,9 km LigoPTP RapidFire 5-N link with external 32 dBi Telimart dish antennas. The client was B.P. Foods, which is a renowned manufacturer, supplier and distributor of wheat products in Gwalior region. Main customer requirements were:

- To provide a backbone link for video surveillance system monitoring the perimeter as well as the functional areas of Malanpur plant premises.
- Transmit video data wirelessly to a central monitoring room situated in the HO Gwalior.
- Run of 19 IP cameras (5 Fixed and 14 PTZ) in the Malanpur plant premises.

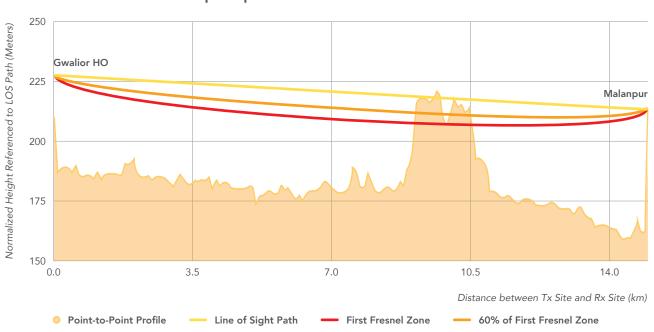
Main challenge:

• Mountainous terrain with a high hill in the way causing no line of site visibility

Equipment used for the link

- LigoPTP RapidFire 5 N
- 32 dBi Telimart dish Antennas
- Outdoor cable
- Self supporting towers

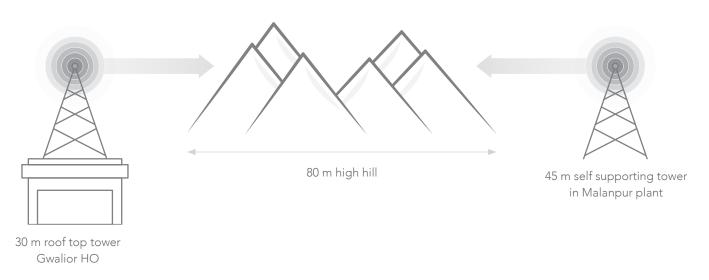
Link path profile between TX and RX sites





Picture | Typical landscape

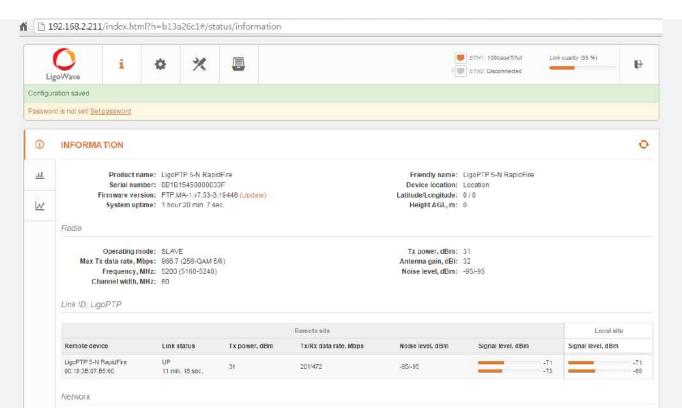
14 km non-los link with LigoPTP RapidFire



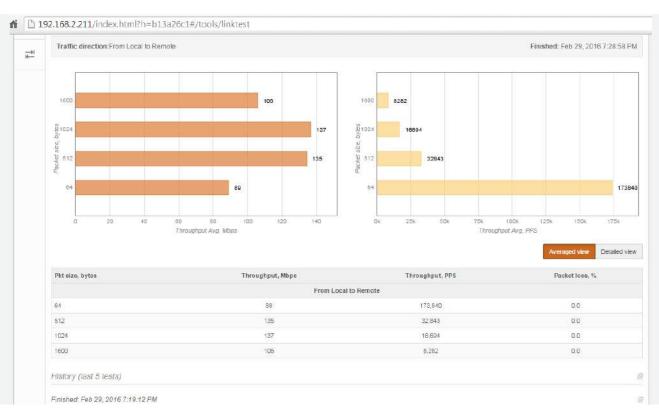
Scheme | Wireless link structure



Picture | Site map



Screenshot | Link status page



Screenshot | Link throughput page

The internal throughput testing tool indicates LigoPTP RapidFire's capacity and PPS rate with different packet sizes. The maximum throughput in this case was 137 Mbps with 1024 byte packets and the max PPS rate was 173,840 with 64 byte packets. The link is using 80 MHz channel.