

Quarterly Report on Monitoring of ICT Infrastructure and Communication Cable Layout

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Bhutan InfoComm and Media Authority

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Monitoring of communication cable layout and FTTH network in Tsirang and Dagana

1. Background

The team from the Authority have carried out the monitoring of QoS and ICT Infrastructures of Bhutan Telecom Limited (BTL) and Tashi InfoComm Private Limited (TICPL) in Gelephu town and its periphery areas. Apart from monitoring QoS and ICT Infrastructure in Gelephu, the team has also carried out monitoring of communication cable layout in Dagana and Tsirang region.

2. Monitoring of cable layout in Dagana town and peripheral areas.

Only BTL and T&T cable service have cable layout in Dagana town and TICL does not have cable layout in Dagana region as they use radio equipment for Internet Leased line distribution. Based on the monitoring of ICT infrastructure and cable layout of BTL and cable in Dagana town and peripheral areas, the observations are as follows;

1. Low hanging cables of T&T cable in roads towards Dagana Dzong area from Dagana town



Figure 1: Low hanging cables of T&T cable near Dagana Dzong area

2. Low hanging cable road crossover of T&T cable in Dagana town



Figure 2: Low hanging cross over cable of T & T cable in Dagana town

3. Non usage of Poles for cable road crossover despite poles available for sharing by BTL and T&T cable near Dagana Dzong area.



Figure 3 : Non usage of Poles for cable road crossover despite poles available for sharing by BTL and T&T cable near Dagana Dzong area

3. Monitoring and verification of cable layout in Dagapela town and Peripheral areas

The team monitored the communication cable layout of BTL and NL cable service in Dagapela town and peripheral areas.

The findings are as follows;

1. Non usage of common poles for cable road cross over in peripheral area of Dagapela town by BTL and NL cable services



Figure 4: Non usage of common poles for cable road cross over in peripheral area of Dagapela town

2. Low cable road cross over of BTL in Dagapela Town



Figure 5: Low cable road cross over of BTL in Dagapela Town

4. Monitoring and verification of cable layout in Damphu town, Tsirang and Peripheral areas

1. Low cable road cross over of Kuenzang cable in Damphu Town, Tsirang



Figure 6: Low cable road cross over of Kuenzang cable in Damphu Town, Tsirang

2. Low hanging ADSS fiber cable of Govetch in Damphu Town



Figure 7: Low hanging ADSS fiber cable of Govetch in Damphu Town ,Tsirang

3. Multiple cable road cross over of BTL and Kuenzang cable in Damphu town, Tsirang



Figure 8: Multiple cable road cross over of BTL and Kuenzang cable in Damphu town, Tsirang

5. Monitoring of FTTH network of Kuenzang cable for Internet Service distribution

The team monitored the FTTH network of Kuenzang cable. The FTTH network has been implemented by Kuenzang cable for the distribution of Internet service to its customers. The findings are as follows;

1. FTTH equipment deployed by Kuenzang cable and its capacity

The Kuenzang cable service has deployed SyRO tech GPON 8- OLT FTTH equipment for internet distribution in Damphu town and its peripheral area. The GPON equipment has 8 ports and each port has the capacity to distribute to 16 customers.

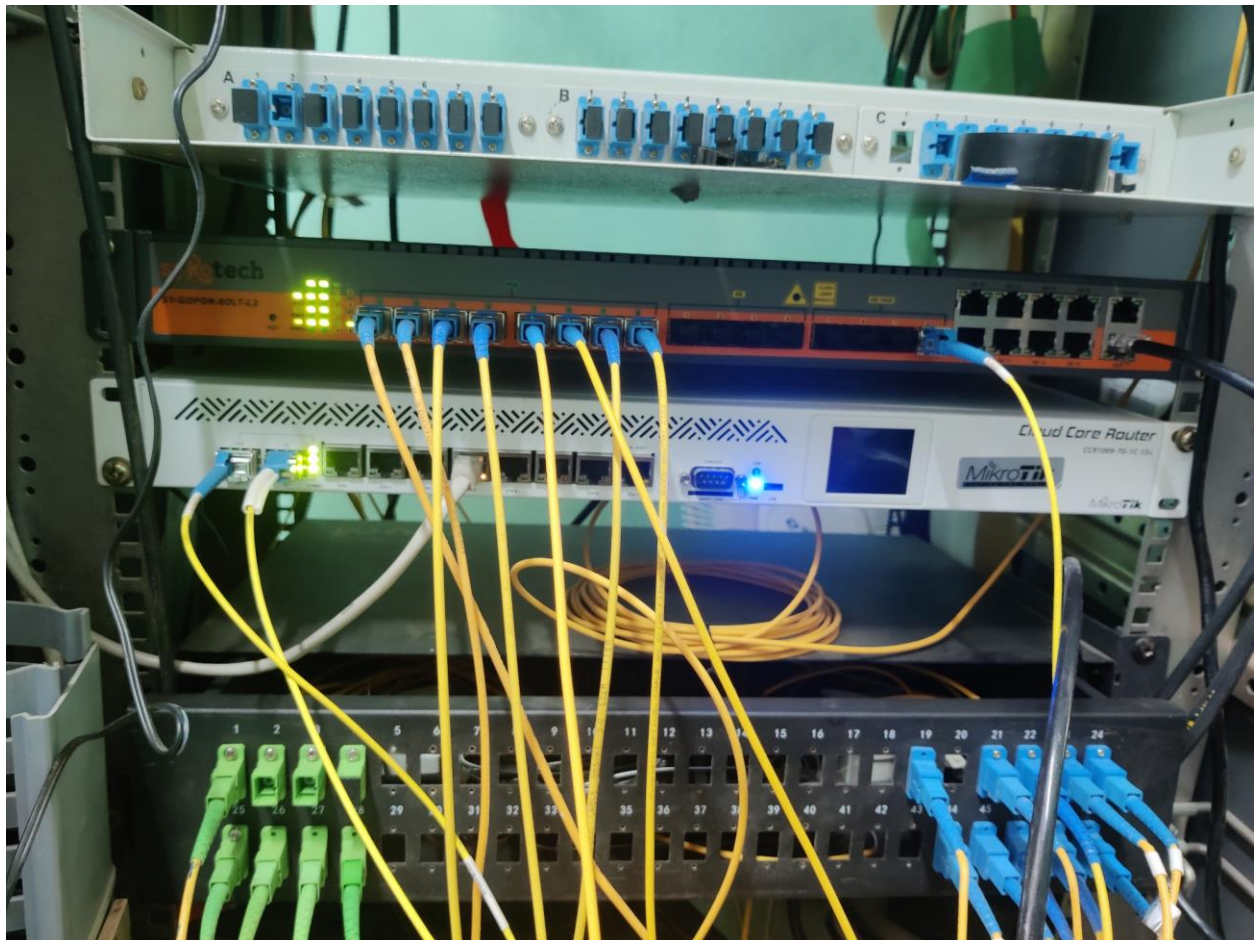


Figure 9: CyRO tech GPON 8-OLT equipment installed at Kuenzang cable network center,Damphu town.

2. The FTTH network splitters deployed near Damphu Town for internet leased line distribution in Damphu town and peripheral areas.



Figure 10: The FTTH network splitters deployed near Damphu Town

6. Actions Taken based on the field visit

- Informed the relevant licensee especially on the communication cable layout and carry out necessary actions.
- verification based on earlier monitoring is carried out by different teams and operators were made to do rectification wherever required.
- Report provides clarity on the need to do further monitoring of ICT Infrastructure and communication cable layout.

7. Recommendation/ Way Forward

- It is recommended that we may inform and coordinate with relevant stakeholders on the infrastructure sharing and cable layout carried out in above mentioned places.
- May inform service providers to improve their cable layout in other locations wherever required
- To carry out the same monitoring in other thromdes, dzongkhag towns and its peripheral areas.