

- Uplink and downlink ports of (2 in x 32 out & 2 in x 8 out) splitter shall have LC/APC connector type – for du\*;

- For buildings with less than 256 units, (2 x 2) & (32 x 8) Optical Patch free Splitters with splicing trays shall be provided - for Etisalat\*.

\* The building owner is responsible for supplying splitters, fibre patch cords and its related racks.

\* The building owner is responsible to install the splitters and its related fibre patch cords to make neat pre-patching between uplink ports and outside plant fibre patch panel & between the downlink ports and inside plant fibre patch panels.

\* Each splitter shall have 2 uplink ports (2 inputs), the connectivity between the 2 uplink ports of splitter with uplink patch panel has to perform in the following steps

- The 1st uplink port of splitter is to be connected to main uplink patch panel
- The 2nd uplink port of splitter is to be connected to redundant uplink patch panel

\* The building owner shall supply the splitters only from the pre-approved manufacturer's list of du and Etisalat.

### **3.6.4 GPON Splitter Calculation per building**

Number of GPON splitters required per buildings = number of tenants/units of building ÷ 30 {where 30 are the downlink ports of (2 in x 32 out) splitter and 2 downlink ports of (2 in x 32 out) splitter shall be left out as spare ports for operational maintenance}.

Number of GPON business splitter required per building = (number of business tenants÷ %10 + (8 of business splitter (to be additionally installed for future maintenance purpose).

All Splitters requirements shall be confirmed during NOC design stage