Headline **Optimising Fibre Optics To Save Cost**

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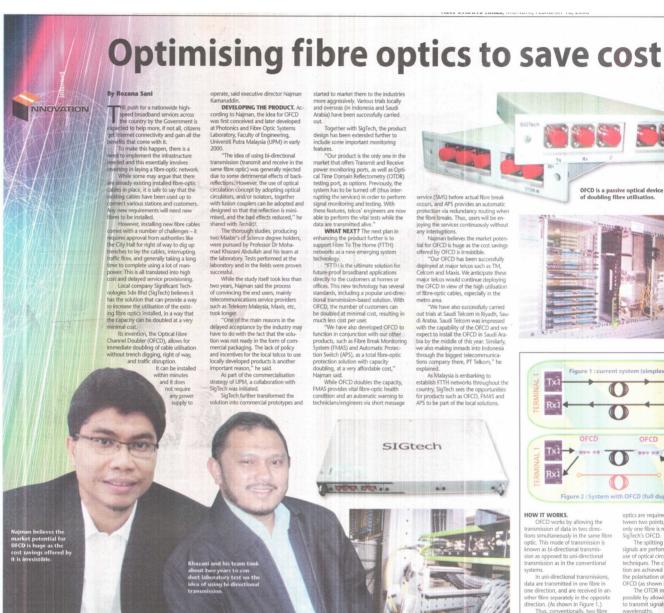
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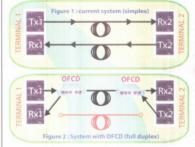
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In uni-directional transmissions, data are transmitted in one fibre in one direction, and are received in an-other fibre separately in the opposite direction. (As shown in Figure 1.) Thus, conventionally, two fibre

optics are required connecting between two points, A and B, whereas only one fibre is required using Sig Tech S OFC.

The splitting and combining of signals are performed by OFCD by use of optical circulation and soloto techniques. The circulation and solotion are achieved by manipulating the polarisation of light inside the OFCD (as shown in Figure 2).

The OTDR monitoring is made possible by allowing the product

possible by allowing the product to transmit signals at two different wavelengths.