

# LEASING PGCB'S OPTIC FIBER NETWORK (Chittagong to Cox's Bazar Link, 145 km)

## Background and Objective

Power Grid Company of Bangladesh Ltd. (PGCB) was created by the Government in 1996 under the Companies Act 1994 for managing high voltage power transmission network throughout Bangladesh. The company is now installing overhead Optic Fiber Cable (OFC) network commonly known as Optical Ground Wire (OPGW) for telecommunication purposes, along its high voltage transmission lines throughout the country in phases:

### Phase I:

In Phase I, the installation of **Dhaka-Chittagong link, 245 km**, has already been completed.

### Phase II:

The network in the rest of the country is being installed as shown in the picture on the right. Installation of **Chittagong-Cox's Bazar link, 145 km**, has already been completed.

**Dhaka-Sylhet, Dhaka-Rajshahi and Dhaka-Khulna** links are planned to be completed by **2007**. After completion of the network, it will cover most of the districts of Bangladesh with a length of **4,000 km**.

**PGCB invites tender from potential investors to lease out one dark pair of OFC from Chittagong to Cox's Bazar.**

Infrastructure Investment Facilitation Center (IIFC) has been engaged to assist PGCB in the leasing process.

## PGCB'S Countrywide OFC Network



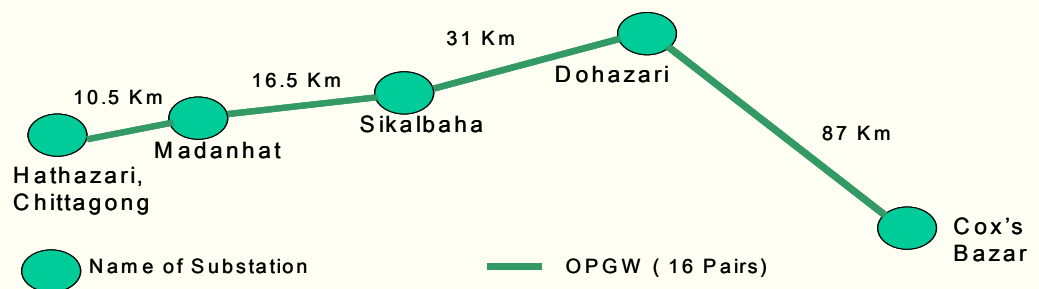
## Benefits

- Less installation and maintenance cost
- Transmission connectivity between Chittagong-Cox's Bazar
- Increased bandwidth capacity
- Higher network security and reliability

## Chittagong-Cox's Bazar OFC Network



One Pair being offered for lease, 145 km

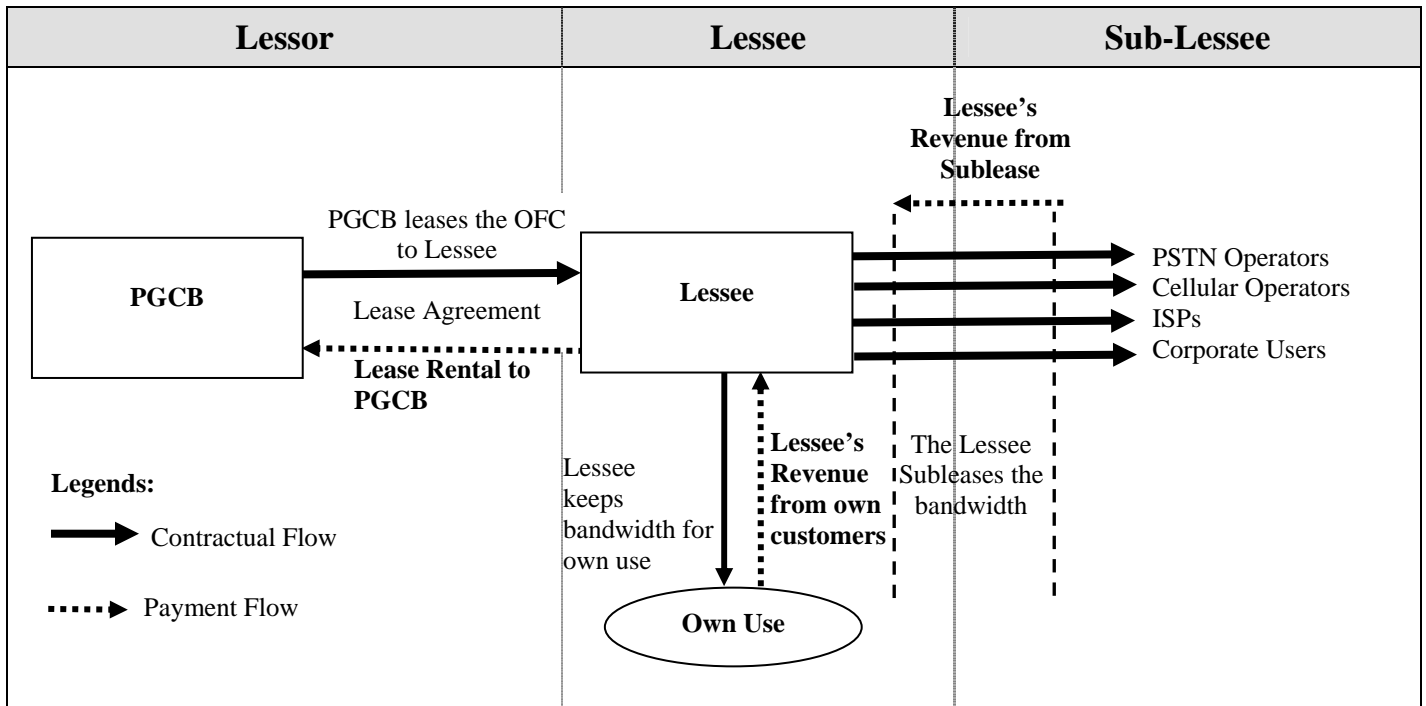


## Potential Lessees and the Business

The lessee can use the network for own use or sub-lease to others on commercial basis and pay pre-agreed rentals to PGCB. A diagram showing the commercial framework (business around lessee) is shown in the opposite page. Existing PSTN and cellular operators, especially those having substantial customer base at Chittagong, is likely to have significant demand for the Chittagong Cox's Bazar link for their own use. Transmission Network Service Providers (TNSP) providing transmission connectivity with network in the rest of the country (especially in Dhaka-Chittagong) can also utilize the Chittagong Cox's Bazar link for connecting with Cox's Bazar.

For making the OPGW operational, terminal equipment has to be connected with the network by the Lessee. A picture depicting the delineation of responsibility between PGCB and Lessee in the system is shown on the opposite page.

### Business around Lessee



### Delineation of Responsibilities Between PGCB And the Lessee

