

Proposal Laying Fiber Optic for Cables along Railway Tracks in Sudan

¹Ammar A. Saleh, ²Dr. Amin B. A. Mustafa, ³Dr. Ashraf A. Osman

¹(Faculty of Engineering, Al-Neelain University, Khartoum, Sudan)

²(Faculty of Engineering, Al-Neelain University, Khartoum, Sudan)

³(Computer Design Senior Engineer, Folsom, CA, USA)

Abstract: Fiber optics cables offers various advantages of over regular cables when used as data transportation medium in today's communication networks. Many African countries such as the Sudan and South Africa large portions of their land connected through railway networks. Remote areas in such countries are scarcely connected to communication networks other than use of mobile phones communications relying on microwave or satellite communications. Such communications are expensive and inefficient. In this study, a proposal to use the railway networks for establishing fiber optic networks for communication purposes to connect remote cities and towns. The socioeconomic impact analysis will be provided, and potential issues and obstacles will be discussed.

Keywords: Communications, Fibers, Network, Optic

I. Introduction

The types of mediums used to carry information in today's communication networks are include co-axial cables, fiber optic cables, microwave, and satellite links, copper telephone wires, etc... For long distances, the fiber optics have shown good performance-cost ratios when compared to other means. Examples of fiber-optics benefits includes[1]:

- Immunity to electromagnetic interference.
- Usage of non-conductive materials.
- No electromagnetic radiation from cables leading to high data security
- No current induced sparks risks since no conducting current is used
- Usage of small and lightweight materials.
- High operating bandwidth over long distances.

Despite these benefits, the fiber-optic cables suffers from limitations such as[1]:

- Cost where cables are expensive to install but last longer than copper cables.
- Transmission where optical fibers require repeating at distance intervals.
- Fragility where cables are prone to breakage or transmission losses when wrapped around sharp curves. This can be avoided by encasing fibers in plastic sheath where cables will be hardened towards bending into a small enough radius that could result in fiber breaks.
- Protection - Optical fibers require more protection around the cable compared to copper.

Several countries have laid large fiber optic cable networks along their existing railway tracks. For examples, the British Rail Telecommunications was created by British Rail (BR). It was the largest private telecoms network in Britain, consisting of 17,000 Km of fiber optic and copper cable which connected every major city and town in the country and provided links to continental Europe through the Channel Tunnel[2]. The network infrastructure comprises of transmission systems and telephone exchanges linked by a fiber optic and copper cable network that is located mainly within trackside. Furthermore, the Indian RailTel has more than 42,000 Route Km of Optical Fiber Cable running along Indian Railway Tracks in many part of the country[3].

For sparsely connected countries such in the African continent, transportation authorities have established networks of railways for freight and public transportation. Table 1. Shows sample of African countries with length of railway tracks in Km, where data is extracted from [4] collected between 2010-2014. More information about African countries railway network can be seen in Fig.1.

Table.1 A sample of African countries with Railways track networks and length in KM extracted from [4].

Country	Length of Railways Tracks, KM
Europe	5,195
South Africa	20,500
Sudan	4,313

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