

**From:** Thiagarajan V (वी. त्यागराजन)  
**Sent:** 15-Nov-2015 18:31  
**To:** 'jindal\_pardeep@yahoo.co.in'; 'jindal\_plan@hotmail.com'  
**Cc:** Mukesh Khanna (मुकेश खन्ना); Seema Gupta (सीमा गुप्ता)  
**Subject:** Standardisation of OPGW in lieu of One Earth wire in all Transmission lines.

Sir,

Power System requirement for Communication is increasing multifold due to Special protection schemes:

- I. Ever increasing data reporting to Load Dispatch Centre.
- II. Phasor measurements based data collection and reporting.
- III. Remote monitoring/operation of sub-station/elements.
- IV. Differential protection on Lines

The practice of putting fibre in select lines lead to situation where station connectivity is held up due to either identified line delay, LILO of under construction line etc. OPGW installation on existing lines is taking long time/ delayed due to shut down, ROW issues as well as capacity constraints of executing agencies.

It is proposed to include one 24 Fibre (OPGW) in all transmission lines which will ensure availability of wideband communication from all substations to cater bandwidth for various power system application for which communication equipment (SDH- STM-16) shall be provided at all upcoming substations.

It is requested that the above agenda may be taken up in the next SCM

Regards,  
V.Thiagarajan