

**GOVERNMENT OF INDIA
POWER
LOK SABHA**

UNSTARRED QUESTION NO:3258
ANSWERED ON:31.08.2012
POWER TRIPPING
Ramkishun Shri

Will the Minister of POWER be pleased to state:

- (a) whether tripping is one of the reasons of outage;
- (b) if so, the details thereof; and
- (c) the extent to which this problem is likely to be solved through the use of helicopters?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRI K.C. VENUGOPAL)

(a): Yes, Madam. Tripping of transmission lines and / or generating units may be one of the reasons of outage of other transmission lines and / or generating units also.

(b): Tripping may be caused by several factors which include occurrence of a fault in a generating unit/transmission line, mal-operation of protection system, insulation failure, voltage/frequency/load beyond safe limits, etc. Deposition of pollutants on the insulators strings of the transmission lines may also cause insulation failure which may lead to tripping of transmission lines.

(c): As mentioned above, sometimes flash over in insulator strings due to pollutants deposited on insulators of the transmission lines in foggy conditions results in tripping of EHV transmission lines. The Enquiry Committee, constituted by CEA to enquire into the incident, which occurred on 27th January,2007 and to suggest remedial measures to avert such recurrence, recommended use of helicopters for insulator washing in the transmission lines. PowerGrid Corporation of India Limited used helicopters for insulator washing in some of its transmission lines. Using helicopters for insulator washing in the areas where conventional methods i.e. truck mounted washers/ telescopic boom washers is not feasible or in areas of higher pollution level, may contribute in reduction of pollution related tripping.