

**GOVERNMENT OF INDIA
POWER
LOK SABHA**

UNSTARRED QUESTION NO:2394
ANSWERED ON:18.03.2005
POWER GRID CORPORATION
Gaikwad Shri Eknath Mahadeo

Will the Minister of POWER be pleased to state:

- (a) whether Western Power Grid, Catering to Maharashtra and Gujarat, often suffer from major power break-downs;
- (b) if so, the causes of the Grid failures, and the number of such breakdowns noticed during 2003-04 and 2005, if any so far; and
- (c) the steps to prevent such break downs in future?

Answer

THE MINISTER OF POWER(SHRI P.M. SAYEED)

(a) & (b) : The Western Power Grid did not suffer any major break-down during 2003-04 and 2004-05 (upto 13.03.05). However, six partial (minor) grid disturbances occurred in the Western grid affecting power supply in some areas of Madhya Pradesh, Maharashtra and Gujarat. The details of these partial grid disturbances are as under:

Date of occurrence of partial grid disturbance Main cause

2003-04

- (i) 06.10.03 Sub-station equipment failure
- (ii) 05.11.03 Transmission constraints
- (iii) 07.11.03 Transmission constraints
- (iv) 06.12.03 Transmission constraints
- (v) 05.02.04 Sub-station equipment failure

2004-05

- (i) 27.02.05 Fire in Koradi Thermal Power Station of
 Maharashtra State Electricity Board

(c) : The following short term, medium term and long term measures have been evolved to prevent such breakdowns in future:-

- (i) Strengthening of intra-regional and inter-regional transmission system network.
- (ii) Provision of under-voltage relays at low-voltage pockets.
- (iii) Maximising reactive power generation.
- (iv) Load relief by automatic under-frequency relay schemes.
- (v) Installation of shunt capacitors to overcome low voltage conditions etc.
- (vi) 400 kV Khandwa substation has been commissioned by POWERGRID in December, 2004. This has facilitated transfer of around 200 MW of power to Khandwa substation by provision of loop in loop out (LILLO) on 220 kV Burwaha- Neapanagar ckt. I & II.
- (vii) ABT (Availability Based Tariff) regime has been implemented and grid frequency is being closely monitored to maintain frequency within the desirable range of 49.0 to 50.5 Hz. by maximizing generation and taking load regulatory measures.