GOVERNMENT OF INDIA MINISTRY OFPOWER RAJYA SABHA QUESTION N007.03.2011 ANSWERED ON USE OF SOFTWARE FOR DETECTION OF POWERRELATED FAULTS .

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Shri Ishwarlal Shankarlal Jain

Will the Minister of COALPOWER be pleased to state :-

(a) whether Government is going to implement or considering to implement any scheme in the country to repair power related faults with the help of a software;

(b) if so, the details thereof;

(c) whether Government is using this software to repair the faults that occur suddenly in power system; and

(d) if so, the details thereof?

ANSWER

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI K.C. VENUGOPAL)

(a) to (d) :In power system network adequate protection is provided by the respective Utility for their network. These protection schemes sense the fault and isolate the faulty sections. Automatic restoration schemes are also envisaged to restore the supply through standby arrangements. Implementation of Supervisory Control and Data Acquisition(SCADA)/Distribution Management System is envisaged in R-APDRP towns where input energy is more than 350 MU and population is more than 4 lakhs. This would assist the Utilities in detection, isolation and speedier restoration of the faulty section.

Under Restructured Accelerated Power Development and Reforms Programme

(R-APDRP) Scheme launched by MoP, GoI in July 2008, 100% loan is provided for funding of installation of Supervisory Control And Data Acquisition(SCADA) System in towns with population greater than 4 lakhs as per 2001 Census & having energy input greater than 350MU.

Installation of SCADA system is envisaged to provide:

-Real time monitoring & control, -Fault Management & System Restoration -Loss minimization/load balancing -Improvement in voltage profiles etc.

It would also facilitate managing loads efficiently at the time of load shedding & restoration and efficient planning of network for future growth by using proven power system planning tools.

Under R-APDRP Part-A(SCADA), a loan amount of Rs.472 Crores has been sanctioned for funding of SCADA schemes in 18 of 60 eligible towns and an amount of Rs.100 Crores has already been disbursed. In transmission system, in addition to SCADA, speedier fault isolation and restoration is achieved through installation of numerical protective relays. Numerical relays are basically electronic devices with sophisticated software built into them. They are employed to detect and isolate equipment/transmission lines experiencing variety of faults.