



System Studies For Kptcl, Bangalore

Karnataka Power Transmission Corporation Ltd, is proposing to commission a 220kV GIS substation at East Division compound in the heart of the city to cater the major loads for IT, BT & Metro.

Four alternate connectivities of underground cable at 220 kV are proposed to this substation which are 220 kV 'A' station (Near Ananda Rao Circle), 220 kV Nimhans, 220 kV HAL substation, and from the gantry of 220 kV Peenya Substation.

CPRI was awarded the contract to study the requirement of all the four connectivity and identify any redundant connection.

Power System Division of CPRI carried out the study for identifying the redundancy of any of these feeders without affecting the reliability of the power supply.

The load flow studies on Bangalore city Transmission for the load scenario of 2012 were carried out for different contingencies, i.e. with and without 4 circuits from Nelamangala - Peenya Gantry, and cable from Peenya Gantry to NRS, 'A' Station, EDC and Nagarbhavi Substations.

From the study, it was concluded that the UG cable from Peenya Gantry to East Division Compound was not essential if proper operational flexibilities like Split Bus operation, and load management scheme are adopted. However, the multicircuit line from Nelamangala to Peenya Gantry, UG cable from Peenya Gantry to 'A' station are found to be essential. The recommendation was well accepted by KPTCL for implementation.

Award of Patent

CPRI has been awarded a Patent for new Invention entitled "A Flame Retardant Composition for Cable Applications"

PATENT NO: 234791

A flame retardant composition for cable applications comprising an EPDM resin and flame retardant additives accelerator, accelerator activators, plasticiser, filler, antioxidant, acid acceptor, external lubricant and vulcanizing or cross linking agent.

This compounded composition implants in the used system, specific flame retardant low smoke properties without any acid gas generation. The composition also meets the required mechanical properties of cable insulation / sheathing applications.

16th Training Programme on "Testing of Transformer Oil"

CPRI organized the 16th training program on "Testing of Transformer Oil" during 07-11th September, 2009. The course was inaugurated by Shri P K Kognolkar, Director General (I/c), CPRI, on 7th September 2009. Chief Guest was Smt. G. Latha Krishna Rao, IAS, Managing Director, KPTCL, Bangalore and key note address was delivered by the Guest of Honor, Shri G Hanumanthappa, Chief Engineer (Electrical Designs), KPTCL, Bangalore. Thirty one participants, from various organizations attended the training program. Faculty members delivered lectures on manufacture of transformer oil, new oil sampling & testing, service oil sampling & testing, testing of PCBs & DP, quality system implementation and condition monitoring of transformers. Demonstration of the tests were also made.

The program concluded with a valedictory function on 11th September 2009. Certificates were awarded to the participants by the Director General (I/c).



16th Training Programme on Testing of Transformer Oil
7-11 September 2009

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