

**1. Modification in installation scheme of 75MVA (4x25MVA single phase) reactor at 33kV level at Misa (POWERGRID) S/s**

- 1.1. The under implementation NERSS-IV scheme inter alia includes removal of 400/220kV, 4x105MVA (single phase) ICT and installation of 400/220kV, 2x500MVA ICTs in the space created. After removal of 4x105MVA ICT, the existing 33kV system including 75MVA (4x25MVA single phase) reactor and 1MVA, 33/0.415kV LT Transformer (earlier connected to 4x105MVA, 400/220kV, 1-phase transformers) would be connected to tertiary of new 500MVA, 400/220/33kV ICT (i.e. ICT-1).
- 1.2. Now, NERLDC (vide email dated 12-07-2018) has mentioned that availability of the subject 75MVA reactor during off-peak hours also is critical for maintaining grid voltage. Accordingly, they have proposed that the 75MVA reactor should be connected in such a way that any outage of ICTs at Misa (POWERGRID) S/s doesn't affect its availability. The same could be ensured by connecting the existing 4x25MVA, 33kV reactor with 2 nos. of 400/220kV ICTs instead of 1 no. ICT at Misa s/s.
- 1.3. Members may discuss.