CHAPTER 8

8.CONCLUSION & FUTURE SCOPE

8.1 CONCLUSION

The reactive power optimization is a complex combinational optimization problem. The antlion algorithm is used for optimal placement and sizing of capacitor in the electrical transmission system. The objective function aims to minimize the active power loss in the network, while satisfying all the power system operation constraints. The proposed algorithm has been applied successfully to the IEEE-57 bus system. The results show that the power loss in the network reduces drastically after placement of capacitors in the network using antlion optimization algorithm. ALO proves its effectiveness in terms of maximum efficiency extraction from unknown search space and in minimum computational time.

8.2 FUTURE SCOPE

Reactive power is a very important parameter in power grid that affects several factor like stability, voltage level, losses etc. to search out the best location of the electrical condenser to manage the reactive power may be a difficult task. To resolve this down side a unique approach has been mentioned during this project.

CHAPTER 8