CHAPTER 9

9.0 FUTURE SCOPE

HCCI engines simulated the effect of VVT with the combination of different fuels brought out fewer emissions of particulate matter and NOx. There are still many unsolved problems relating to these HCCI engines.

- In this project emphasis was given on the in-cylinder process, no consideration was given to the spray angle, nozzle geometry etc. this could be the one of the future scope of the project.
- The effect of change in piston bowl or the change in geometry of chamber combustion on the working condition of HCCI engine can be one of the consideration in future scope.
- In this project we considered the two valve timing for intake and exhaust valve; in future we can consider some more combination of valve timing and can validate the effect on emission in HCCI mode.
- The detailed fuel chemistry interaction can be simulated as a future scope.
- Not last but least is the effect of change in ignition timing can be judged effectively in future.