CHAPTER 7

SCOPE FOR THE FUTURE WORK

Based on the results of the present experimental work, the following research activities could be carried out in future:

1. A suitable heat treatment can be carried out for the FGM Al-Si alloys produced by CDC process in metal mold and in sand mold to achieve improvement in the mechanical properties.

2. The FGM Al-Si alloys with SiC$_p$ additions at different volume percentage can be carried out by CDC process in metal mold and in sand mold to obtain enhanced wear resistance.

3. High temperature wear tests can be carried out for the FGM castings produced by CDC process in order to study wear behavior at elevated temperature.

4. By in-house CDC equipment, different shapes of FGM castings including a hollow casting can be tried for special applications.

5. Use of induction furnace capable of melting ferrous alloys, CDC equipment can be used to produce ferrous and non-ferrous combinations as FGM castings.