CHAPTER-6

CONCLUSION AND

FUTURE SCOPE
6.1 Conclusion

The results shows that it is possible to achieve desired strength in concrete by replacing cement upto 40% by Fly Ash, Brick Dust and Rice Husk Ash. The conclusion is as follows:

i. Fly Ash and Brick Dust concrete shows more strength as compare to Rice Husk Ash concrete.

ii. Rice Husk Ash makes concrete light in weight as compared to Fly Ash and Brick Dust concrete. So it will be helpful in reducing dead load of the construction.

iii. Brick Dust makes concrete heavier so it will be helpful in using it in foundation work and making earthen dams etc where heavy weight is essential for the structure.

iv. There is 33-40% reduction in cost of concrete by using these industrial wastes (FA, RHA and BD).

v. There is 7% reduction in the cost of concrete when using Rice Husk Ash and Brick Dust in Lucknow Region as compared to Fly Ash concrete.

6.2 Future Scope

i. More field test can be conducted od using appropriate technology to grind Rice Husk Ash and Brick Dust to make concrete.

ii. The variation in Rice Husk Ash combustion process currently employed can be investigated to determine the best source of Rice Husk Ash for the use in concrete.

iii. Effect on different curing periods on concrete.
iv. Effect on the strength of concrete by using different water cement ratio for the design mix concrete.

v. For use of Brick Dust Concrete and Rice Husk Ash Concrete as a structural material, it is necessary to investigate the behavior of reinforced Brick Dust Concrete and Rice Husk Ash concrete under flexure, shear, torsion and compression.

vi. The logistics of implementing the use of Fly Ash, Rice Husk Ash and Brick Dust concrete in developing country construction should also be investigated to ensure that this low cost construction material is helping the people who need it most.