Recommendations and scope for further study
5. RECOMMENDATIONS AND SCOPE FOR FURTHER STUDY

1) In order to raise the biomass concentration of *Haematococcus* CS-321 in the Bioroof and Bioheliotron reactor during the day, it would be desirable to avoid any withdrawal of biomass during the period of culture when light intensity is increasing (0900-1200 hrs).

2) The Bioroof prototype need tested in future for physical roofing structure applications, industrial photosynthesis of microalgae and cost economy by virtue of their nullifying foot prints index.

3) Bioheliotron by virtue of automated positive cum partially negative buoyancy phenomena reflexes on waters lend brighter chances for algal productivity from the equator upto 40 °N latitude of the globe.

4) Conceptualization of the two novel photobioreactors studied show that scale up is more likely to proceed by increasing the size of the photostage system rather than increasing the number of units as found in most other relevant designs assuring the S/V a constant value.

5. A social awareness for microagriculture among the rural society is needed and non-governmental organizations along with co-operative societies can go for micro-financing rural biofactories plus fund additional research and development on similar lines with promising SCP candidates (*Hydrodictyon*, *Scenedesmus*, *Actinastrum*, *Micractinium*).