Methodology:

The estimation of insulating capability of such dispersion requires totally different modeling than the conventional methodology used in case of porous and dispersed multi-phase systems. A theoretical and experimental study of such structures located in regions too hot in summer and quite cool in winter will show the utility from the viewpoint of comfort and energy saving. To study above parameters, we will use equation of heat conduction and different theoretical models technique [28-36].

The results thus obtained during this study will be compared with the available experimental results.

6. Year-wise plan & targets to be achieved

First year :-

1. Understanding & investigation of the problem.
2. Collection of concerned literature as theoretical & experimental results obtained so far.
3. Formulation of appropriate theoretical model to predict effective thermal conductivity for three phase systems.

Second year :-

1. Modified expression will also be applied to large number of samples cited in the literature in the starting of second year.
2. Comparison of results with available experimental and theoretical results.
3. Writing work for thesis and send for publication in reputed Journals.