Work Plan and Methodology

a) Chapteraization
1) Introduction to ND Test procedures.
2) Evaluation of residual strength of masonry and RCC structures,
3) Introduction to newly evolved techniques of retrofitting, for seismic zones III, - V.
4) Study of traditional methods and newly developed methods of retrofitting, for their relative advantages and disadvantages.
5) Comparison of newly developed methods of retrofitting, with Traditional Methods in lieu of safety, economics and Eco friendly values.
6) "The Life cycle evaluation" process
7) Analysis of data collected and discussion about findings.
8) To ascertain the probable reasons for non implementation or negligent attitude towards life safety of occupants, with the help of data collected.
9) General discussion locus standee of BIS Code as requisite for sanctioning the structural plans.
10) Conclusion and Suggestions.

b) Methodology
1) To collect the information about a awareness and implementation of BIS Code's seismic specifications and recommendations in existing or new residential buildings from 1) Owners of the building, 2) Architects, 3) Structural engineers, 4) Building construction contractor, 5) PMC/ Site Engineer,6)Builders/developers,7) NGO's, by method of Personal Interviews, Questioner.
2) Further to collect information, about the details of number of residential retrofitted buildings, the methodology adopted, from city of Ahmadabad and Bhuj, Gujarat, India.
3) Study of traditional methods and newly developed methods of retrofitting, for their relative advantages and disadvantages.
4) Case studies:- i) to assess the residual strength of existing structure and suggest safest, economical, and eco friendly methods of retrofitting,ii) to estimate the awareness among the citizens residing in seismic zones III, IV & V of Gujarat, and iii) the Life cycle evaluation of a residential building.
5) To compare various methodologies of retrofitting of residential buildings, on principle for safety of occupant's life, live stocks and surrounding properties.
6) Secondary comparison for, Eco friendly, economics, duration of execution, for different types of constructions materials. To prepare guide lines, from the conclusions of the comparison.