Research Methodology

Methodology has its importance in scientific investigation because objectives in any research investigation cannot be obtained unless it is carried out in a very systematic & planned manner. Scientific investigation involves careful and proper adaptation of research design, use of standardized tool and test identifying adequate sample by using appropriate statistical techniques for analyzing the data for the study.

Questionnaire (based on construction and building workers socio- economic condition of Bhiwani district, observation, interview and documentary technique will be used).

The present work is based on primary & secondary data. The area of research work is confined to House Construction Business in Bhiwani district of Haryana will be selected for research because it is very fast developing, high take city. Also it is operationally convenience from the stand point of time and cost factor.

The primary research involves personal interviews and field visits with different stakeholders in supply chain(s) of building and construction industry viz. Builders, architects, contractors, masons, carpenters, painters, labourers, government organizations etc.

1.3.1 Research design

Present research design consists of formulation of the research problem, comprehensive review of available literature, define the scope of the study and its limitations, development of hypothesis, collection processing and analyzing the data and finally enumerating the inference and conclusion. Present study will be utilize a combination of historical analysis, literature survey, questionnaire survey." Historical analysis and literature survey will be find out useful in collecting textual data from published and unpublished sources. The questionnaire method will be quite Economics condition and their analysis of construction workers in bhiwani district of Haryana state. Hence, the data collection for this study combines primary and secondary data.

1.3.2 Area of the study

For present study, the researcher will be take the house construction activity in the
Bhiwani district area of the Haryana state.

1.3.3 Statistics techniques and test

Proposed study will be used chi-square test and know about the two variables in rural and urban sector workers. We will investigate that House construction work has wide backward & forward linkages. The basic features of this activity are employment & income generation and there is dominance of private contractors & engineers, and poor working conditions of workers.

The \textit{chi-square test statistic} is computed as

\[ X^2 = \sum \frac{(\text{observed} - \text{expected})^2}{\text{expected}} \]

A chi-square test is a statistical test commonly used for testing independence and goodness of fit. Testing independence determines whether two or more observations across two populations are dependent on each other (that is, whether one variable helps to estimate the other). Testing for goodness of fit determines if an observed frequency distribution matches a theoretical frequency distribution. In both cases the equation to calculate the chi-square statistic is where O equals the observed frequency and E the expected frequency. The results of a chi-square test, along with the degrees of freedom, are used with a previously calculated table of chi-square distributions to find a p-value. The p-value can then be used to determine the significance of the test. The proposed study will be find out the difference between two variables rural and urban workers economics conditions as well as we will know about their goodness.

1.3.4 Questionnaire

Survey

The survey method is the best method to know the present situation of the topics of research; hence the survey has been undertaken with the help of questionnaire designed for the purpose. The questionnaire is a combination of closed and open-ended questions. A majority of the questions will be structured with multiple choices to tick appropriate answers. All research will be related The questionnaire
consist of total 80 questions related to respondents of bhiwani district rural and urban and we will try to know about their personal information, educational status, economics status, social background, their daily income based on their construction business work Qualification, Work Remuneration, Awareness of Government Schemes, workplace Conditions, Work Prospects / Growth in career etc.

**Sample size** - The proposed observation will be decide as - The proposed research work, We will take in Criteria of Research- selected Respondents of bhiwani district rural and urban, we will take 150 rural and 150 urban sector respondents related to house constructor workers and we will take Total 300 selected Construction workers of bhiwani district in this proposed research work.

Rural respondents 150

Urban respondents 150

Total respondents = 300 from Bhiwani District…