CHAPTER-III

METHODOLOGY

Lindquist (1956) pointed out that the “researches are designed to proceed in a planned manner to control variance and to answer pertinent research questions”. The design is the general structure of the experiment, not its specific contents (Myers, 1980). Mohsin (1984) opines that, “research design depicts the plan which states the relation between observed facts and events on the basis of which conclusions could be drawn”. Further elaborating Ferguson (1981) asserts that several methodological approaches and designs have been developed but the choice of appropriate design depends upon the special characteristics of the sample, nature of measuring instruments and restraints regarding the manipulations of variables being studied. Thus, the choice of a method is governed by the aims of the study, the variables under investigation and the nature of the data.

The present chapter deals with the method and procedure adopted for locating the schools, selection of subjects, construction of questionnaire and its standardization, administration of questionnaire, collection of data and statistical treatment to the collected data. For this purpose a survey type study was designed to accomplish the task.
Sample

The universe of the study was the schools of Jammu and Kashmir. Of total schools in 20 districts of Jammu and Kashmir, twenty schools from each district were randomly selected for the purpose of data collection for the present empirical investigation. The details have been presented in the following table:

<table>
<thead>
<tr>
<th>Regions</th>
<th>Number of Districts</th>
<th>Schools for Boys</th>
<th>Schools for Girls</th>
<th>Schools for Co-Education</th>
<th>Total Schools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jammu</td>
<td>20</td>
<td>27</td>
<td>27</td>
<td>146</td>
<td>200</td>
</tr>
<tr>
<td>Kashmir</td>
<td>20</td>
<td>37</td>
<td>43</td>
<td>120</td>
<td>200</td>
</tr>
</tbody>
</table>

Selection of the subjects

For the present investigation the physical education teachers working in the selected schools of Jammu and Kashmir were basically considered as subjects. However, the schools wherein physical education teachers were not appointed, in such cases principals of the schools were considered as subjects for data collection.

Tools

In order to collect data regarding programmes and policies of physical education and sports in the schools of Jammu and Kashmir a questionnaire was developed by the present investigator. The
questionnaire consisted of two types of questions keeping in view the nature of study and the informations sought from the respondents. The questionnaire has 44 questions based on Yes/No response and remaining 10 questions have multiple choice responses based on likert type four points scale and the score ranged from 1 to 4. Thus, the questionnaire has fifty six questions in all covering various aspects regarding policies and programmes of physical education and sports being observed by the schools of Jammu and Kashmir.

The following steps were followed for the construction of the questionnaire:

1. **Pooling of statements**

   Keeping in view the policies and programmes for physical education and sports in the schools of Jammu and Kashmir, a questionnaire with the help of subject experts and supervisor was prepared having 84 items tentatively in the initial phase covering different aspects of the study. The statements were sequentially arranged according to the order of items of the study. Efforts were made to ensure that the statements remain short and simple having utmost clarity. The questionnaire thus developed with tentatively
drafted 84 items was sent to the experts for seeking their expert opinion in regard to the statements of the questionnaire.

1. **Rewriting of statements**

   After receiving the worthy opinion and suggestions of the experts regarding these drafted statements, irrelevant statements were dropped and in the final phase only 56 statements were retained on the final version of the questionnaire. In order to establish the reliability of the questionnaire a pilot study on 20 subjects was conducted. The test re-test reliability of the questionnaire was found to be 0.76.

**Procedure**

   For the purpose of data collection, the investigator well before the start of the study sought an appointment with the subjects to ensure their availability. The purpose of the study was explained to them and they were assured that the collected data will exclusively be used for research purpose only and the obtained informations will be kept secret and will not be revealed to anyone else. The subjects were requested to provide their candid responses on each item of the questionnaire.

   After winning the confidence of the subjects the questionnaire was administered on the subjects. The obtained responses were properly arranged for statistical treatment of the data.
Statistical Analysis

Considering the nature of obtained data and objectives of the study, parametric statistical test (Critical Ratio) was used for examining the comparison between groups on each item. Critical ratio (CR) was computed by using the following formula:

\[
    CR = \frac{(P_1 - P_2) - 0}{\sigma P_1 - P_2}
\]