

Chapter 3
Research Methodology

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3.1 Introduction

Upgrading the quality was and still is the main objective sought by all industrial organizations, for the purpose of superiority and differentiation in the markets of global competition as a result of the radical changes that the world has witnessed during the last two decades and in a form which is described in which the contemporary world as a global village intertwined parts through the World Wide Web access to the Internet in response to the revolution of the enormous in the field of information and communication, which coincided with the fact accelerated in the dynamic environmental changes and the various dimensions, making the state must change something fixed on each organization to stand in front of this side and the evolution of its production.

This thing expanded the field of conflict and competition between organizations of the project to achieve the advantages of superiority and market share at the expense of some others.

It is this aspect has become a concern precedence competitive (Quality) one of the most attention in today's world, to move its concept of just testing and inspection to the philosophy of comprehensive administrative and organizational culture is good and represented the philosophy of total quality management, and it has become quality as a Defensive Shield to any organization no one can climb and penetrates Organization. In line with these trends have taken a lot of the barriers that prevent climbing through international organizations and perhaps the most prominent organization of international standards (ISO) International Standardization Organization, which issued in 1987, which is the cornerstone to reach the total quality management as it has become

ISO certified passport which allows for the product Jump from the national or local domain to the world of fame and global markets, which can not work without it any industrial organization want to walk around through the global markets and the acquisition of industrial organizations as do Japanese International.⁽²¹⁾

3.2 The Research Methodology

Research methodology includes a set of rules and procedures upon which the search, they include the approach taken by the researcher in this study, in addition to the population of the study, and the data collection tool and the analysis of that data, leading to results that reveal the truth about the problem of the study.

3.2.1 Research Method

Track this study exploratory descriptive approach, where the exposed field study of the application of the system of quality control in cement factories Libyan.

This is the approach one of the major courses, which depends upon mainly in scientific studies on the two-tier or two stages, the first level is the stage of research or exploratory studies where the aim of the research in general to the identification of a particular phenomenon discovery of knowledge and new ideas to help identify the problem purely accurately, while the second level of research that relies on the descriptive approach in dealing with subjects research is descriptive or as they are called descriptive studies of diagnostic depth.

3.2.2 Research community

This research is limited to the area of the cement plants in Libyan western region, are presented below for these plants, and vocabulary across apiece for the research community:⁽³³⁾

1. Ahlia Cement "General Administration" (Head of Quality)

The company was founded Ahlia Cement contribute in 1965 as a joint stock company under the name of civil cement and construction materials national.

Where it began to establish a cement plant observatory, which began production in 1969, and in 1988 founded the Arab Company for Cement annexation company cement building materials national and cement factory Zliten to the company the Souq Alkames Cement, and dated 03/08/2005 issued Decision No. (45) for the year 1373 to raise the capital of the Arab Company for Cement to 600 million Libyan dinars and in the light of this decision to implement a program to broaden the base of ownership and the company changed its name to the National Company for Cement contribute.⁽¹⁷⁾

2. Mergep Cement Factory (Head of Quality).

The annual design capacity: Cement average resistance to sulfur / 330000 tons.

The beginning of production: 1968.

3. Souq Alkames Factory "Amsehel" (Head of Quality).

Energy Design Annual: Portland Cement Normal / million tons, lime / 100.000 tons per year , Gypsum / 9000 tons.

The beginning of production: 1978

4. Lebda Factory (head of department store quality).

The annual design capacity: Portland Cement Normal / million tons.

The beginning of production: 1981.

5. Zliten Cement Factory (Head of Quality).

The annual design capacity: Portland Cement Normal / million tons.

Start of production: 1984.

6. Msellath Bags Factory (Head of Quality).

The annual design capacity: 80 million bag.

The beginning of production: 2004.

7. Burge Factory (the prospective employee for the position of head of quality).

The annual design capacity: 1.4 million tons

The beginning of production: 2005

3.2.3 Data collection tool

To achieve the objectives of the research used questionnaire is an essential tool to collect the basic data needed for the research community, and is a questionnaire of more data collection tools suitable for this study, because it saves a lot of time and effort on the researcher in the data collection process, as the questionnaire gives full freedom to the respondents to choose time and the right conditions for packaged and freedom of thought in the questions, in addition to the questionnaire that reduce the chances of bias both when the researcher or the respondent, especially if you put the questions in a scientific objective of the respondent did not ask to be named.

The questionnaire was designed to respondents in this study, the questionnaire was divided into three sections, namely:

Section I : relation to factories that have the quality department.

Section II : relation to factories that do not have quality department.

Section III : In this section includes questions addressed to the Libyan Ministry of Industry.

3.2.4. Method of data analysis

After the completion of the process of collecting questionnaires, was tabulated and analyzed the data obtained, symbolized answers and introduced directly, the research has used statistical method the descriptive frequency tables, and ratios the percentage of answers that have been obtained from the vocabulary study population, and to provide and explain and interpret the content, and this is what will address the second part of the presentation of this chapter.