

**FACTORS AFFECTING EMPLOYEE JOB SATISFACTION OF PHARMACEUTICAL SECTOR**

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**ABSTRACT**

*The Pharmaceutical sector plays a vital role in underpinning the economic development of a country. This study attempts to evaluate job satisfaction of employees in different pharmaceutical companies. It focuses on the relative importance of job satisfaction factors and their impacts on the overall job satisfaction of employees. It also investigates the impacts of pharmaceutical type, work experience, age, and sex differences on the attitudes toward job Satisfaction. The result shows that salary, efficiency in work, fringe supervision, and co-worker relation are the most important factors contributing to job satisfaction. The overall job satisfaction of the employees in pharmaceutical sector is at the positive level. The nature of business operation, the work culture and the level of job satisfaction have undergone sea change for the pharmaceutical companies. As a business proposition initiated huge investment whereas majority of their stocks is going down bringing a high level of apprehension related to job security among its employees. This research paper highlights some of these problems and presents a picture of level of job satisfaction among employees of pharmaceutical companies. It also identifies unique issues of job satisfaction in the companies. Pharmaceuticals Companies are selected for the research because they are currently undergoing continued expansion. In order to gain competitive advantage and adapt to the dramatic changing environment, it is important for them to achieve management efficiency by increasing employee satisfaction in the organisation. Hence this research was mainly undertaken to investigate on the significance of factors such as working conditions, pay and promotion, job security, fairness, relationship with co-workers and supervisors in affecting the job satisfaction. This paper presents a comprehensive diagnosis of job satisfaction indices of pharmaceutical business, the factors causing the dissatisfaction & suggestions to improve them.*

**Keywords:** Job Satisfaction, Job Dissatisfaction, Motivation.

**1. INTRODUCTION**

Job satisfaction describes how content an individual is with his or her job. It is a relatively recent term since in previous centuries the jobs available to a particular person were often predetermined by the occupation of that person's parent. There are a variety of factors that can influence a person's level of job satisfaction. Some of these factors include the level of pay and benefits, the perceived fairness of the promotion system within a company, the quality of the working conditions, leadership and social relationships, the job itself (the variety of tasks involved, the interest and challenge the job generates, and the clarity of the job description/requirements). The happier people are within their job, the more satisfied they are said to be. Job satisfaction is not the same as motivation, although it is clearly linked. Job design aims to enhance job satisfaction and performance methods include job rotation, job enlargement and job enrichment. Other influences on satisfaction include the management style and culture, employee involvement, empowerment and autonomous workgroups. Job satisfaction is a very important attribute which is frequently measured by organizations. The most common way of measurement is the use of rating scales where employees report their reactions to their jobs. Questions relate to relate of pay, work responsibilities, variety of tasks, promotional opportunities the work itself and co-workers. Some questioners ask yes or no questions while others ask to rate satisfaction on 1 – 5 scale where 1 represents "not all satisfied" and 5 represents "extremely satisfied".

**1.1 Background of the Study**

People management is an important aspect of organisational processes. This emanated from the recognition that the human resources of an organisation and the organisation itself are synonymous. A well-managed business organisation normally considers the average employees as the primary source of productivity gains. These organisations consider employees rather than capital as the core foundation of the business and contributors to

firm development. To ensure the achievement of firm goals, the organisation creates an atmosphere of commitment and cooperation for its employees through policies that facilitate employee satisfaction. Satisfaction of human resource finds close links to highly motivated employees. Motivated employees then develop loyalty or commitment to the firm resulting to greater productivity and lower turnover rates.

However, even with the widespread recognition of the importance of facilitating the relationship between job satisfaction and motivation in facilitating organizational commitment, there are varying perspectives on the means of doing this. The earliest strategy is to use wage increases to link job satisfaction and motivation to organizational commitment (Hill & Wiens-Tuers 2002). With the recognition that this is not enough to bring about motivation expressed in job satisfaction, other perspectives emerged giving particular importance to the training and skills development of employees (Woodruffe 2000) applied through the underlying principle of continuous organisational learning. Since this covers only an aspect of human resource management, a holistic approach emerged that targets the development of a certain quality of employment life (Champion-Hughes 2001) that covers fair wages, benefits, other employment conditions, and career development to support the facilitation of motivation and job satisfaction directed towards organisational commitment.

This means that achieving motivation and job satisfaction to develop organizational commitment is not simple or easy and works according to the context of individual firms. Although, there are best practices within industries, it is up to the individual organisations to determine which human resource strategies meet its needs and objectives. To determine the manner that individual industries develop and achieve organizational commitment through job satisfaction and motivation, the study will investigate in-depth the human resource strategies of Incepta Pharmaceuticals Limited, Apex Pharma & Beximco Pharmaceuticals Limited.

### **1.2 Objective of the study**

The objective of the study is as follows:

- To assess the satisfaction level of employees in Pharmaceutical industry
- To identify the factors which influence the job satisfaction of employees
- To identify the factor which improves the satisfaction level of employees

### **1.3 Scope of the study**

This study emphasis in the following scope:

- To identify the employees level of satisfaction upon that job.
- This study is helpful to that organization for conducting further research.
- It is helpful to identify the employer's level of satisfaction towards welfare measure.
- This study is helpful to the organization for identifying the area of dissatisfaction of job of the employees.
- This study helps to make a managerial decision to the company.

### **1.3 Limitations of the study**

- The survey is subjected to the bias and prejudices of the respondents. Hence 100% accuracy can't be assured.
- The researcher was carried out in a short span of time, where in the researcher could not widen the study.
- The study could not be generalized due to the fact that researcher adapted personal interview method.

### **1.4 Methodology**

A descriptive research design with survey method is applied in the study. The researcher has used both the primary and the secondary data for the purpose of this study. Secondary data were collected from available books, publications, research studies, articles and websites.

A closed-ended interview-schedule was designed to collect primary data. Incepta, Beximco & Apex Pharma are selected to collect primary data and the researcher visited each pharmaceutical to talk informally with pharmaceutical officials for collecting information regarding job satisfaction. After collecting all necessary data, data have been analyzed and tabulated descriptively. And, this tabulated information used to measure perceived satisfaction and dissatisfaction level of the employees. To measure the satisfaction level a 5 point scale has been used which is denoted by 1=SD, 2=D, 3=N, 4=A, and 5=SA.

## 2. REVIEW OF LITERATURE

The study of job satisfaction is a topic of wide interest to both people who work in organizations and people who study them. Job satisfaction has been closely related with many organizational phenomena such as motivation, performance, leadership, attitude, conflict, moral etc. Researchers have attempted to identify the various components of job satisfaction, measure the relative importance of each component of job satisfaction and examine what effects these components have on employees' productivity.

Spector (1997) refers to job satisfaction in terms of how people feel about their jobs and different aspects of their jobs. Ellickson and Logsdon (2002) support this view by defining job satisfaction as the extent to which employees like their work. Schermerhorn (1993) defines job satisfaction as an affective or emotional response towards various aspects of an employee's work. C.R.Reilly(1991) defines job satisfaction as the feeling that a worker has about his job or a general attitude towards work or a job and it is influenced by the perception of one's job. J.P. Wanous and E.E. Lawler (1972) refers job satisfaction is the sum of job facet satisfaction across all facets of a job. Abraham Maslow(1954) suggested that human needs from a five-level hierarchy ranging from physiological needs, safety, belongingness and love, esteem to self-actualization. Based on Maslow's theory, job satisfaction has been approached by some researchers from the perspective of need fulfillment (Kuhlen, 1963; Worf, 1970; Conrad et al., 1985)

Job satisfaction and dissatisfaction not only depends on the nature of the job, it also depend on the expectation what's the job supply to an employee (Hussami, 2008). Lower convenience costs, higher organizational and social and intrinsic reward will increase job satisfaction (Mulinge and Mullier, 1998; Willem et al., 2007). Job satisfaction is complex phenomenon with multi facets (Fisher and Locke, 1992; Xie and Johns, 2000); it is influenced by the factors like salary, working environment, autonomy, communication, and organizational commitment (Lane, Esser, Holte and Anne, 2010; Vidal, Valle and Aragón, 2007; Fisher and Locke, 1992; Xie and Johns, 2000).

Different people interpret compensation differently. In this paper compensation, reward, recognition, and wages are terms used in different situations (Zobal, 1998). The compensation is defined by American Association is "cash and non-cash remuneration provided by the employer for services rendered" (ACA, p. 9). Salary was found to be the prime factor for the motivation and job satisfaction of salaried employees of the automobile industry from the results of the survey by Kathawala, Moore and Elmuti (1990). The survey tried to assess the various job characteristics and the way the employees ranked them as motivators and satisfiers. The results showed that compensation was ranked as the number one job element for job satisfaction and increase in salary for performance was ranked as the number one job element for motivation. Compensation is very valuable tool for retention and turnover. It is also a motivator for an employee in commitment with the organization which in result enhances attraction and retention (Zobal, 1998; Moncarz et al., 2009; Chiu et al., 2002). It also works as communicator when it is given to employee against his services which shows how much an employee is valuable for its organization (Zobal, 1998).

The mentoring is used for development-orientation (Scandura and Williams, 2004). When a supervisor provides mentoring, the relationship affects the protégés skill development and intentions to remain with the employer (McManus and Russell, 1997). On the other hand non-supervisory mentor may increase mentee's confidence by providing access to outside organization (Scanduraa and Williams, 2004). The immediate supervisor support is very important in organizational change. Although the support of supervisor is not very crucial in satisfaction but it has positive impact on satisfaction (Griffin, Patterson and West, 2001). According to Chakrabarty, Oubre, and Brown (2008) "perhaps the finest way in which supervisors can portray himself as a role model is to personally demonstrate proper techniques so that employee could understand how job should be done." J.D. Politis (2001) has examined the roles played by leadership in the process of knowledge acquisition and a survey was carried out on 227 persons who have been engaged in knowledge acquisition activities to examine the relationship between leadership styles and knowledge acquisition attributes. The results showed that the leadership styles that involve human interaction and encourage participative decision-making are related positively to the skills essential knowledge acquisition.

According to the study conducted by Friedlander and Margulies (1969), it was discovered that management & friendly staff relationships contribute to the level of job satisfaction. However, this result contradicts with view of Herzberg (1966) who supported the view that supervision is irrelevant to the level of job satisfaction.

According to Frame (2004) work conditions are defined as an employee's work place, work instruments, the work itself, organization policy, and organizational rules. Arnold and Feldman (1996), promoted factors such as temperature, lighting, ventilation, hygiene, noise, working hours, and resources as part of working conditions.

The worker would rather desire working conditions that will result in greater physical comfort and convenience. The absence of such working conditions, amongst other things, can impact poorly on the worker’s mental and physical well-being (Baron and Greenberg, 2003). Robbins (2001) advocates that working conditions will influence job satisfaction, as employees are concerned with a comfortable physical work environment. In turn this will render a more positive level of job satisfaction. Arnold and Feldman (1996) shows that factors such as temperature, lighting, ventilation, hygiene, noise, working hours, and resources are all part of working conditions. Employees may feel that poor working conditions will only provoke negative performance, since their jobs are mentally and physically demanding.

According to James Brown (2007), he defines fairness as equal treatment, receiving the same services and benefits as other people. Fairness means different things to different people, and our view of whether or not something is fair often depends on the circumstances (Klesh, J. 1979). Competent employees are essential to the success of any organization. An important factor driving satisfaction in the service environment is service quality. One school of thought refers to service quality as a global assessment about a service category or a particular organization (PZB, 1988). Recently, it has been argued that satisfaction is generally viewed as a broader concept and service quality is a component of satisfaction (Zeithaml & Bitner, 2003). This is because satisfaction derives from various sources, such as service encounter satisfaction and overall satisfaction. In other words, a little satisfaction from each service encounter leads to overall satisfaction with the service. Various studies discussed shows that job satisfaction has been studied with relevance to co-worker behavior supervisor behavior, pay and promotion, organizational factors and other work related factors. In some studies the employees were highly satisfied or otherwise. The aim of this study is to determine the factors affecting employee job satisfaction in pharmaceuticals Companies.

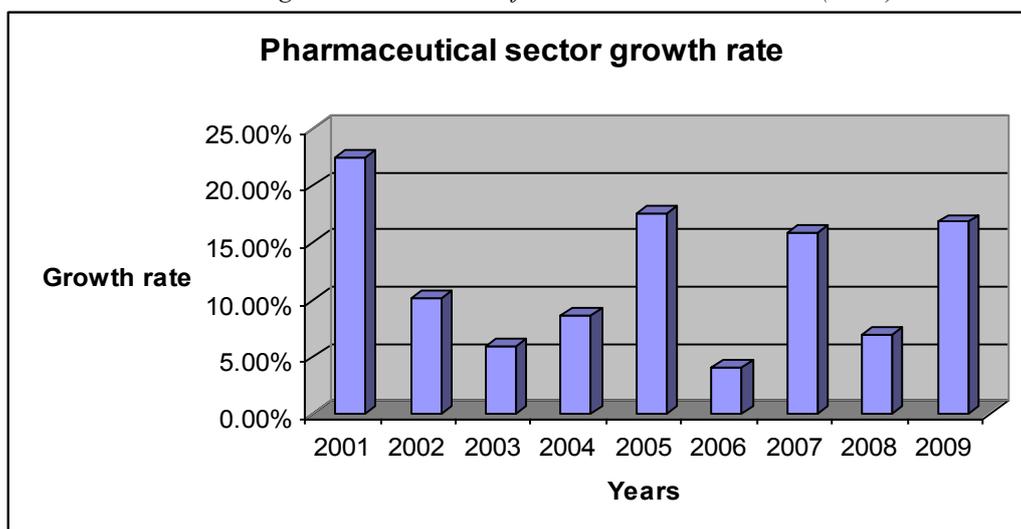
### 3. PHARMACEUTICAL INDUSTRY IN BANGLADESH

In Bangladesh the pharmaceutical industry comprises of about 286 large and small companies. According to BPI of December 2002, the market status of the industry is as follows. The market size is approximately Taka 55 Billion with a growth rate of approximately 16.8%. Domestic companies are currently dominating the pharmaceutical market. The local companies control about 78% of the total market.

Table 1: Pharmaceutical sector growth rate

Year	Growth Rate
2001	22.46%
2002	10.18%
2003	5.90%
2004	8.60%
2005	17.50%
2006	4.08%
2007	15.80%
2008	6.91%
2009	16.80%

Source: Bangladesh Association of Pharmaceutical Industries (BAPI)



**4. ANALYSIS AND INTERPRETATION**

The data after collection is to be processed and analyzed in accordance with the outline and down for the purpose at the time of developing research plan. Technically speaking, processing implies editing, coding, classification and tabulation of collected data so that they are amenable to analysis. The term analysis refers to the computation of certain measures along with searching for pattern groups. Thus in the process of analysis, relationship or difference should be subjected to statistical tests of significance to determine with what validity data can be said to indicate any conclusions.

The analysis of data in a general way involves a number of closely related operations, which are performed with the purpose of summarizing the collected data and organizing them in such a manner that they answer the research questions. In this study the researcher followed above process carefully and it is presented in this chapter

**4.1 Findings**

This section will try to highlight and discuss the results and the findings based on the analysis done on the data collected from respondents. This research focuses on the factors affecting employee job satisfaction in selected pharmaceuticals company. The discussion then will try to accomplish all the objectives of the study. In this instance, for simplicity of analysis and findings, this part focuses on the levels of employee job satisfaction in Pharmaceuticals Company and discussion. Pharmaceuticals company survey responses are the frequencies that simply refer to the number of times various subcategories of certain factors occur (in this study, the demographic factors) from which the percentage and the cumulative percentage of their occurrence can be easily calculated. The descriptive statistics will present the feel of the data that gives preliminary ideas how good the scales are, how well the coding and entering of data has been done, and the central tendency of the research variables.

**4.2 Employees Job Satisfaction in Pharmaceuticals Company**

This part discusses the respondents’ overall perception of employee job satisfaction in Pharmaceuticals Company and sub-dimensions such as pay and promotion, job security, work conditions, fairness and relationship with co-workers and management. The findings are presented in frequencies and percentages.

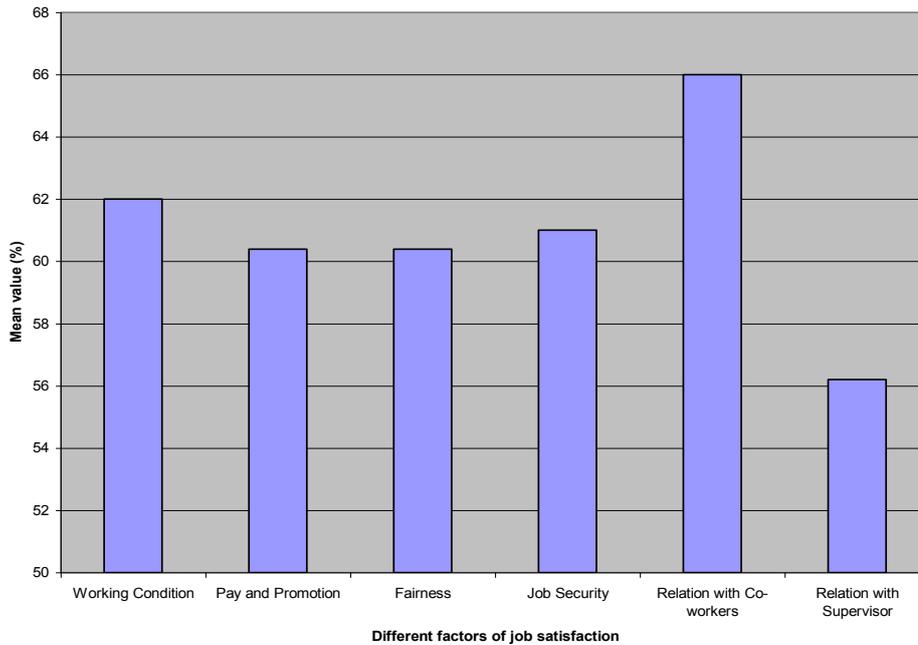
**4.2.1 Employee Satisfaction in Pharmaceuticals Company**

Table 2: Overall level of employee satisfaction in Pharmaceutical Companies

Factors influencing job satisfaction	Mean
Working Condition	62%
Pay and Promotion	60.4%
Fairness	60.4%
Job Security	61%
Relation with Co-workers	66%
Relation with Supervisor	56.2%
Average	61%

In terms of working conditions, pay and promotion, job security and relationship with co-workers the study found that the level of employee job satisfaction is “neither happy nor unhappy” and in terms of relationship with immediate supervisor the level of employee job satisfaction is “somewhat unhappy”. Overall level of employee satisfaction in pharmaceutical companies, the study found that the average mean is 61%, so the overall level of employee job satisfaction is “neither happy nor unhappy”.

**Factors influencing job satisfaction of pharmaceutical companies**



**4.3 Descriptive Statics**

**4.3.1 Level on work conditions.**

In terms of level on work conditions in pharmaceuticals companies, the study found that 44 respondent’s perceived atmosphere to be “Neutral”. About 29 respondents perceived the work conditions to be “happy”, while 15 respondents perceived work conditions as “unhappy”. A few, 7 respondents rated the work conditions as “very unhappy” and “very happy” 5. At last, the mean score is 3.01, so the work conditions are “neither happy nor unhappy”. Looking at the mean score of 3.10, we can see that work conditions influence job satisfaction in pharmaceuticals companies. (See, Appendix-02)

**4.3.2 Level on Pay and Promotion**

In terms of level on pay back in pharmaceuticals companies, the study found that 49 respondents perceived pay and promotion to be “neither happy or unhappy”, 21 of the respondents perceived the pay and promotion to be “somewhat happy “and 21 respondents perceived pay and promotion to be “somewhat unhappy”. Only a few 4 and 5 of the respondents rated the pay and promotion as “very unhappy” and “very happy”. At last, the mean score is 3.02, so the pay and promotion is “somewhat unhappy”. According to a mean score of 3.02, we can see that pay and promotion influences job satisfaction in pharmaceuticals companies. (See, Appendix-03)

**4.3.3 Level on Fairness**

In terms of level about fairness in pharmaceuticals companies, the study found that 51 respondents perceived fairness to be “neither happy nor unhappy”, 24 respondents perceived the fairness to be “somewhat happy”, while 16 respondents perceived fairness as “somewhat unhappy”. A few 6 respondents rated the fairness as “very unhappy” and 3 respondents are “very happy”. Finally, the mean score is 3.02, so the fairness is “neither happy nor unhappy”. According to the mean score of 3.02, we can see that fairness influences job satisfaction in pharmaceuticals companies. (See, Appendix-04)

**4.3.4 Level on Job Security**

In terms of level on job security in pharmaceuticals companies, the study found that 50 respondents perceived job security in pharmaceuticals companies to be “neither happy nor unhappy”, 24 respondents perceived job security in pharmaceuticals companies to be “somewhat happy”, while 17 respondents perceived job security in pharmaceuticals companies as “somewhat unhappy”. 5 respondents rated job security as “very unhappy” and 4

respondents were “very happy”. Finally, the mean score is 3.08, so job security in pharmaceuticals companies is “neither happy nor unhappy”. According to the mean score of 3.05, we can see that job security influences job satisfaction in pharmaceuticals companies. (See, Appendix-05)

#### **4.3.5 Level on Relationship with co-workers**

In terms of level on relationship with co-workers in pharmaceuticals companies, the study found that 42 respondents perceived relationship with co-workers to be “neither happy or unhappy”, 25 respondents perceived the relationship with co-workers to be “somewhat happy” and 19 respondents “somewhat unhappy”. Only 1 respondent rated the relationship with co-workers “very unhappy” and 13 respondents were “very happy”. At last, the mean score is 3.30, so the relationship with co-workers is “somewhat unhappy”. According to a mean score of 3.30, we can see that relationship with co-workers influences job satisfaction in pharmaceuticals companies. (See, Appendix-06)

#### **4.3.6 Level on Relationship with immediate supervisor**

In terms of level on relationship with immediate supervisor in pharmaceuticals companies, the study found that 49 respondents perceived relationship with immediate supervisor in pharmaceuticals companies to be “neither happy or unhappy” 14 respondents perceived relationship with immediate supervisor as in pharmaceuticals companies to be “somewhat happy”, while 25 respondents perceived relationship with immediate supervisor in pharmaceuticals companies as “somewhat unhappy”. 8 respondents rated relationship with immediate supervisor as “very unhappy” and 4 rated it as “very happy”. Finally, the mean score is 2.81, so relationship with immediate supervisor in pharmaceuticals companies is “somewhat unhappy”. According to the mean score of 2.81, we can see that relationship with immediate supervisor influences job satisfaction in pharmaceuticals companies. (See, Appendix-07)

#### **4.4 Conclusion**

Employee job satisfaction can improve service quality and increase employee satisfaction. In this circumstance, policy makers and managers have turned their attention to provide different kinds of facilities to their employees in order to satisfy their employees. This study tested factors affecting job satisfaction for pharmaceuticals companies. The results suggest that the factors had satisfactorily explained job satisfaction and that the policy makers and managers should focus on the factors that affect employee job satisfaction, if they want to enhance their businesses. Based on the results for the standardized values, we are able to see that work conditions, fairness, promotion, and pay, are key factors affecting pharmaceuticals companies employees’ job satisfaction. Money is a good motivator, actually all employees’ work for money, employees need the money, a good salary and good compensations are key factors in satisfying the employee. We can increase the employee salary and compensation to motivate the employee, the good pay back can be one of the key factors affecting job satisfaction, also in this way one can increase the service quality and organizational performance. The factor of work conditions is also proven to have significant influence over the pharmaceuticals companies. The physical design of the place does have certain impacts on job satisfaction. Because the work conditions in the pharmaceuticals companies include the employee relationships and work environment, all these factors relate to employee job satisfaction. A good work environment and good work conditions can increase employee job satisfaction and the employees will try to give their best which can increase the employee work performance. The importance and the need is therefore describing or defining the physical environment by identifying those elements or dimensions that make up the physical environment. Therefore, in the questionnaires several elements have been defined such as cleanliness, lighting, noise, and furniture arrangements. These elements are the determinant of whether it affects employee’s satisfaction. In pharmaceuticals companies, the employees hope they all receive equal treatment with respect to pay or promotion. If pharmaceuticals companies create a fair competitive environment, like fair treatment, fair compensation, fair work hours, these will improve employee job attitudes; fairness can also motivate employees to be hard working. After this consideration, we can see that fairness can increase employee job satisfaction; satisfied employees offer good services for the organization. This can increase organizational performance, so fairness is a key factor affecting job satisfaction in pharmaceuticals companies. In pharmaceuticals companies job security as an aspect of job satisfaction was more important to male employees than to female employees. Employees from medium- and large-staff-sized organizations, compared with those from small staff-sized organizations, were more likely to cite job security as a very important contributor to their job satisfaction.

#### 4.5 Recommendation

Opportunities for future study have emerged as a result of this study. In addition to overcoming the limitations of data gathering, additional research is needed to observe the relationships between job satisfaction and work conditions, pay and promotion, fairness, job security, relationship with supervisor and co-workers. The limitations have contributed to the lack of arriving at many strongly statistically proven findings and conclusions. For future research the following suggestions should be considered:

- 1) It is suggested that for future research a proportionate stratified random sample be used to compare several public sector institutions using a larger sample.
- 2) The research is needed to further investigate the potential relationships and affects these variables and other extraneous variables, such as role ambiguity, job level, contingent rewards and co-work have on job satisfaction.
- 3) Qualitative investigators must conduct research regarding the job satisfaction of pharmaceuticals companies. This research method will provide a different perspective of employees, job satisfaction and contribute a more in-depth understanding of how employees view their job.

Based on this study, and analysis of factors affecting pharmaceuticals companies' employee's job satisfaction, this paper makes the following recommendations to the policy makers and managers of the pharmaceuticals companies:

- 1) Create favorable work conditions for the company. Guide the employee to communicate effectively, build a good interpersonal environment within the company, in order to create good work conditions.
- 2) To improve the pay treatment of pharmaceuticals companies employees. Pharmaceuticals companies should improve the overall salary packages of employees; on the other hand, two shifts or three shifts is a way to reduce the workload of employees.
- 3) To improve fairness in pharmaceuticals companies, create a scientific performance appraisal system in the organization. Utilize the other developed countries' scientific performance systems, and use these systems to evaluate employee work performance and evaluate employee service quality.
- 4) Ensure rightsizing strategy within the organization where have shortage of employees and train-up them appropriately for future positions.

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**APPENDIX: 01**

Employees’ Satisfaction Interview Schedule

The following questions are designed only for research purpose. The researcher has no intention to represent this information negatively in his paper. The information will be kept confidently. For the following questions, respondents should be asked to indicate whether they Agree (A), Disagree (D), Strongly Agree (SA), Strongly Disagree (SD), or are Neutral (N).

Name:

Age:

Designation:

Department:

SL	Survey Question	SA	A	N	D	SD
1.	I am satisfied with the working environment of the company.					
2.	I am satisfied with job location.					
3.	I am satisfied with the present working hour.					
4.	I am satisfied with the existing salary structure of the company.					
5.	I am satisfied with the compensation I get & I think it matches with my responsibility.					
6.	I am happy with my work responsibilities.					
7.	I feel comfortable in carrying out my responsibilities.					
8.	I am satisfied with work relationships with the people around me.					
9.	I am satisfied with various activities in the firm & love participating in them.					
10.	I am happy with your overall job security.					
11.	I am satisfied with the given right to put forward my opinions.					
12.	I am satisfied with the leaders in my workplace as positive role models.					
13.	I am satisfied with the present performance appraisal policy of the company.					
14.	I am happy with the recognition and rewards for my outstanding					

	works and contributions.					
15.	I am satisfied and think I've been awarded right set of duties, as per my ability.					
16.	I am satisfied & able to maintain a healthy balance between work and family life.					
17.	Fulfilling my responsibilities give me a feeling of satisfaction & personal achievement.					
18.	I am satisfied with the leave policy of the company.					
19.	I am satisfied employee assistance policy (e.g.- lunch & transport etc.) of the company.					
20.	I am satisfied with long term benefit & insurance policies of the company.					

**Appendix: 02. Level on work conditions**

Satisfaction level	Value of (X)	Frequency (f)	d = X-A	fd
Very Unhappy	1	7	-2	-14
Unhappy	2	15	-1	-15
Neither Happy nor Unhappy	3(A)	44	0	0
Happy	4	29	1	29
Very Happy	5	5	2	10
		$\sum f=100$		$\sum fd=10$

$$\begin{aligned}
 X &= A + (\sum fd / \sum f) \\
 &= 3 + (10/100) = 3.10 \\
 &= 3.10 \times 20 \\
 &= 62\%
 \end{aligned}$$

**Appendix: 03. Level on Pay and Promotion**

Satisfaction level	Value of (X)	Frequency (f)	d = X-A	Fd
Very Unhappy	1	4	-2	-8
Unhappy	2	21	-1	-21
Neither Happy nor Unhappy	3(A)	49	0	0
Happy	4	21	1	21
Very Happy	5	5	2	10
		$\sum f=100$		$\sum fd=2$

$$\begin{aligned}
 X &= A + (\sum fd / \sum f) \\
 &= 3 + (2/100) = 3.02 \\
 &= 3.02 \times 20 \\
 &= 60.40\%
 \end{aligned}$$

**Appendix: 04. Level on Fairness**

Satisfaction level	Value of (X)	Frequency (f)	d = X-A	fd
Very Unhappy	1	6	-2	-12
Unhappy	2	16	-1	-16
Neither Happy nor Unhappy	3(A)	51	0	0
Happy	4	24	1	24
Very Happy	5	3	2	6
		$\sum f=100$		$\sum fd=2$

$$\begin{aligned}
 X &= A + (\sum fd / \sum f) \\
 &= 3 + (2/100) = 3.02 \\
 &= 3.02 \times 20 \\
 &= 60.40\%
 \end{aligned}$$

**Appendix: 05. Level on Job Security**

Satisfaction level	Value of (X)	Frequency (f)	d = X-A	fd
Very Unhappy	1	5	-2	-10
Unhappy	2	17	-1	-17
Neither Happy nor Unhappy	3(A)	50	0	0
Happy	4	24	1	24
Very Happy	5	4	2	8
		$\sum f=100$		$\sum fd=5$

$$\begin{aligned}
 X &= A + (\sum fd / \sum f) \\
 &= 3 + (5/100) = 3.05 \\
 &= 3.05 \times 20 \\
 &= 61\%
 \end{aligned}$$

**Appendix: 06. Level on Relationship with Co-workers**

Satisfaction level	Value of (X)	Frequency (f)	d = X-A	fd
Very Unhappy	1	1	-2	-2
Unhappy	2	19	-1	-19
Neither Happy nor Unhappy	3(A)	42	0	0
Happy	4	25	1	25
Very Happy	5	13	2	26
		$\Sigma f=100$		$\Sigma fd=30$

$$\begin{aligned}
 X &= A + (\Sigma fd / \Sigma f) \\
 &= 3 + (30/100) = 3.30 \\
 &= 3.30 \times 20 \\
 &= 66\%
 \end{aligned}$$

**Appendix: 07. Level on Relationship with Immediate supervisor**

Satisfaction level	Value of (X)	Frequency (f)	d = X-A	Fd
Very Unhappy	1	8	-2	-16
Unhappy	2	25	-1	-25
Neither Happy nor Unhappy	3(A)	49	0	0
Happy	4	14	1	14
Very Happy	5	4	2	8
		$\Sigma f=100$		$\Sigma fd=-19$

$$\begin{aligned}
 X &= A + (\Sigma fd / \Sigma f) \\
 &= 3 + (-19/100) = 2.81 \\
 &= 2.81 \times 20 \\
 &= 56.20\%
 \end{aligned}$$