



# International Journal of Arts and Science Research

Journal home page: [www.ijasrjournal.com](http://www.ijasrjournal.com)

<https://doi.org/10.36673/IJASR.2020.v07.i01.A01>



## A STUDY ON FIRE SAFETY MEASURES OF A DELTA LEONOUS BUILDING SOLUTION IN TAMBARAM

S. Murugan\*<sup>1</sup> and B. Donbosco<sup>1</sup>

<sup>1</sup>\*Department of Commerce, SRM Arts and Science College, Kattankulathur, Chengalpattu-603 203,  
Tamil Nadu, India.

### ABSTRACT

Fire safety industry is a very flourishing once. In fire safety measures the employees have lot of risk on their safety and well-being. There has been lot of health afflictions due to air quality. Well-being is something sought by just about everyone, because it includes so many positive things feeling happy, healthy, socially connected, and purposeful. The study conducted in Kancheepuram district especially in Tambaram. Fire safety's main focus is employee well-being. In order to gather information on the effectiveness of fire safety works industry researcher conducted survey method among the fire safety works employees. The researcher used Interview Schedule as the tool for data collection. The Researcher has been collected 100 samples from the fire safety works employees. The Researcher has been used Simple Percentage Analysis. We can use of Pie Chart and Bar chart.

### KEYWORDS

Fire Safety, Health, Industrial, Risk and Instrument.

### Author for Correspondence:

Murugan S,  
Department of Commerce,  
SRM Arts and Science College,  
Kattankulathur, Chengalpattu,  
Tamil Nadu, India.

**Email:** [murugan10021981@gmail.com](mailto:murugan10021981@gmail.com)

### INTRODUCTION

Fire safety industry is a very flourishing one in Kancheepuram District especially in Tambaram. But in this industry, the employees are not given adequate safety measures for their safe working conditions. In fire safety the employees have lot of risk on their safety and well-being. There has been lot of health afflictions due to air quality. In fire safety works industry, safety is most important for the employees. Officials of the state and central organisation should help in implementation of safety system in fire safety units in Kancheepuram to ensure misfortune free fire safety industry. So the

study is referring to the main intention of to discover the safety measures in the fire safety works industry. According to the factories act the safety instrument should be very important because the safety of the employees is very essential. In fire safety industry lot of fire disaster is happening this is a time to identify the safety materials and well-being of the employees.

### **Needs and Signification of the Study**

The safety and well-being are important to the employees. It includes having good mental health, high life satisfaction and a sense of meaning or purpose. Well-being is something sought by just about everyone, because it includes so many positive things feeling happy, healthy, socially connected, and purposeful. Industrial safety's main focus is employee well-being. If the safety is perfect in the industry the employee's well-being is also perfect. The majority of fire safety works industry is in Tambaram. So the study is taken among the Tambaram fire Safety works employees. So the researcher has taken the study on Industrial fire safety and well-being of the fire safety works employees in Tambaram.

### **Objectives of the study**

The following are the main objectives of the study are as follows.

1. To study the various fire safety measures provided by Delta Leonis building solution.
2. To analysis the level of fire safety measures of workers.
3. To find the problems faced by Delta Leonis building solution.
4. To examine the benefits provided by Delta Leonis building solution. in case of accidents.
5. To suggestion of suitable measures of Delta Leonis building solution.

### **METHODOLOGY OF THE STUDY**

The study conducted in Kancheepuram district especially in Tambaram. The total number of populations 100 in Tambaram area, from that researcher selected the 30 respondents by using Simple Random Sampling method. Survey method is used for the study. In order to gather information on the effectiveness of fire safety works industry researcher conducted survey among the fire safety

works employees. The researcher used Interview Schedule as the tool for data collection.

### **Sample Size**

The Researcher has been collected 100 samples from the fire safety works employees. The Researcher has been used Simple Percentage Analysis. We can use of Pie Chart and Bar chart.

### **Data analysis and interpretation**

In India, fire safety works making was originally restricted to a few items made of gun powder and iron borings. India restricted its making rockets and high blast flower pots with gun powder and iron fillings only. It is quite focusing to observe today in Bengal the street competitions of the talents type of flower pots. Soon after the appearance of chlorates, nitrates, and metal powder, the fire safety works maker improved his productions progressively adding these elements to obtain colour, brilliance, flash, sound and certain desired effects.

### **Inference**

The above table shows that majority of the respondents are 70% in Age group between 26-40 and lowest 4% are age group between 41-50.

### **Inference**

The above table shows that 40% of respondents feels excellent and 60% feels good in Safety Shoe provided by the company. 50% of respondents feels excellent and 50% feels good in Mask provided by the company. 100% of respondents feels excellent in cap and jacket provided by the company.

### **SUMMARY OF FINDINGS**

1. The above table shows that majority of the respondents are 70% in Age group between 26-40 and lowest 4% are age group between 41-50.
2. The above table shows that 40% of respondents feels excellent and 60% feels good in Safety Shoe provided by the company. 50% of respondents feels excellent and 50% feels good in Mask provided by the company. 100% of respondents feels excellent in cap and jacket provided by the company.

**Table No.1: Age of the Empolyees**

S.No	Particulars	No. of Respondents	Percentage
1	18 - 25	20	20
2	26 - 40	70	70
3	41 - 50	4	4
4	Above 50	6	6
Total		100	100

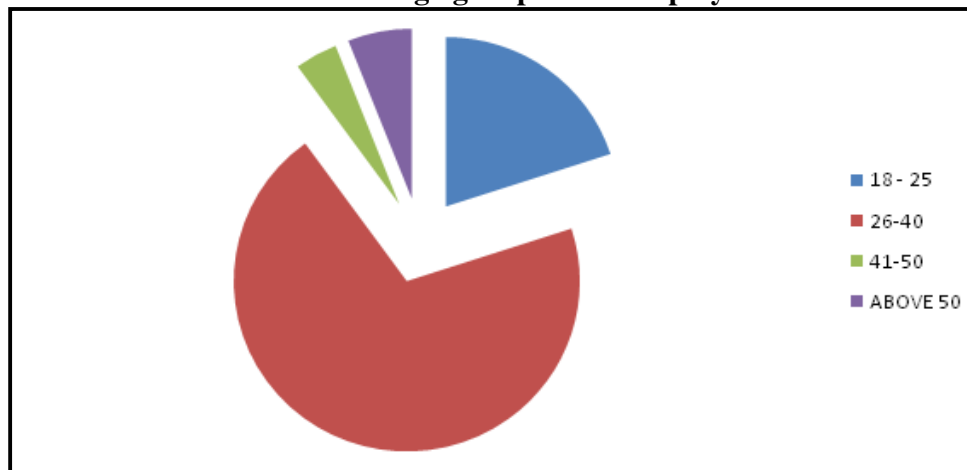
Sources: Primary data

**Table No.2: Safety tools provided by the company**

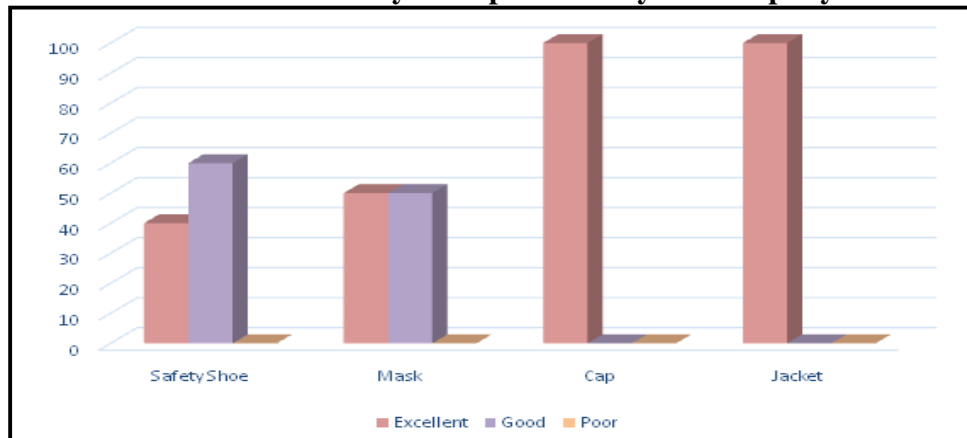
S.No	Attributes	Excellent		Good		Poor	
		No.	%	No.	%	No.	%
1	Safety Shoe	40	40	60	60	0	0
2	Mask	50	50	50	50	0	0
3	Cap	100	100	0	0	0	0
4	Jacket	100	100	0	0	0	0

Sources: Primary data

**Chart No.1: Age group of the employees**



**Chart No.2: Safety tools provided by the company**



## CONCLUSION

Employees should also understand the risk in the workplace, reduce the stress, take regular break while working and wear safety equipment which suits the task in industry. Employees are to be motivated about safety and make the employee an important part of the company culture, the leadership team should be champions of safety and use reinforcement in positive way. If some of these points are taken up by the factory, the workers will be working peacefully and protectively in their work place.

## ACKNOWLEDGEMENT

The authors wish to express their sincere gratitude to Department of Commerce, SRM Arts and Science College, Kattankulathur, Chengalpattu-603 203, Tamil Nadu, India for providing necessary facilities to carry out this research work.

## CONFLICT OF INTEREST

We declare that we have no conflict of interest.

## BIBLIOGRAPHY

1. Azhagurajan A. Study on explosive waste disposal with a case study on fireworks waste, *Journal of Industrial Pollution Control*, 21, 2005, 43-50.
2. Chaudhari V, Srivastava R, Moitra M, Desai V. Risk of domestic accidents among under five children, *The Internet Journal of Family Practice*, 7(1), 2009, 500-502.
3. Karunairagavan K. Information literacy on working conditions and safety measures among the workers of match and fireworks industry in Tamilnadu a study, *Bharathidasan University*, 2016, 215.
4. Mashreky, Bari, Sen, Rahman, Khan and Rahman. Managing burn patients in a fire disaster: Experience from a burn unit in Bangladesh, *The Journal of Fire Safety*, 43(3), 2010, S131-S135.
5. Narasimhalu K and Sathya Murthy G. An Economic study of the problems and prospects of firework industries in Sivakasi Block of Virudhunagar District, *Dancy Publication*, 4.
6. Raman S. An Analysis Determinants of welfare among Industrial Worker, *Vikalpa*, 5(1), 1980, 1-5.
7. Mandira Dey, Pradyumna Tripathy. A study on quality of work life among workers with special reference to firework industry in Tirupur district - a textile Hub, *International Journal of Multidisciplinary Research*, 2(4), 2016.
8. Perumalammal, Momtaz Jahan. Women workers in bangladesh garments industry: a study of the work environment, *International Journal of Social Science*, 1(3), 2012, 1-6.
9. Padmini Sivarajah. Blast in Sivakasi fireworks unit leaves 8 dead, *The Times of India*, 2011, 6.

**Please cite this article in press as:** Murugan S and Donbosco B. A study on fire safety measures of a delta Leonous building solution in Tambaram, *International Journal of Arts and Science Research*, 7(1), 2020, 1-4.