

A STUDY ON BENEFITS DUE TO IMPLEMENTATION OF 5S AND REDESIGNING OF LAYOUT AT ALASKA EXPORT

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I. INTRODUCTION

Companies face many issues regarding quality, consumption of too many resources, time management, non value added activities and production. To stay competitive in today's marketplace, a company must understand its customer's wants and needs and design processes to meet their expectations and requirements. The possibility of maintaining customer satisfaction, on time delivery of quality products becomes a tedious job if proper control and procedures are not derived for the above conditions. A company could fall because of these issues. To overcome those issues, a company can adopt a few lean manufacturing principles after studying the process improvements required by the organization.

By implementing the lean principles in the organization, standardized practices would prevail in the organization thereby the limits are set for wastage in each and every activity. The study has been carried out in the company is 5 S.

II. INTRODUCTION TO ALASKA EXPORT

Established in 1994, Alaska Export is an Indian based leading manufacturer and exporter of home textiles. Wide collections of kitchen linen, living linen and table linen are unique in designs and are made of 100% natural, semi natural and man-made fabrics. Our production capacity is 5 lakhs sqm per month and annual turn-over 5 million usd.

Known for our services, timely delivery and 'costing' intelligence, we are capable to perform under strict deadlines and high pressures. Our beautiful designs are crafted by creative minds, expert hands and advanced infrastructure. Our contemporary collections make your surrounding more refined and classy; our trendiest collections keep your surrounding more stylish and modern. We bring innovations to your home with committed delivery and promised quality.

III. RESEARCH PROBLEM

Organization has few sections that handle many tools and the arrangements of the tools are not proper. The 5S study findings will help them to find out various benefits due to implementation of 5S and proper arrangements of tools and workplace maintenance

SCOPE OF THE STUDY

The 5s practices provides an attempt to understand the effectiveness of lean manufacturing, reduce the complexity, waste, production cost in the shop floor and it improves their productivity.

IV: RESEARCH METHODOLOGY

A) RESEARCH QUESTION

1. Do you find any place to walk around while you want to get materials in each department?
2. What type of material handling device is used to transfer the fabric / clothes?
3. How much time would you take to find the materials for production?
4. How easy is it to access the warehouse materials?

B) RESEARCH OBJECTIVES

- To study the problems faced by the workers in handling the materials and to improve the process through 5s
- To implement effective house-keeping procedures in the company
- To analyze the practices followed in the company and to change the layout in order to improve the productivity

C) RESEARCH DESIGN

The researcher has collected both primary and secondary data for the research. Secondary data has been collected by accessing journals, news papers and websites, while primary data has been collected through questionnaire for one whole month. The data has been observed and noted directly from the production department

V: LITERATURE REVIEW:

5S is a systematic technique used by organizations .This system helps to organize a workplace for efficiency and decrease wasting and optimize quality and productivity via monitoring an organized environment. It also provides useful visual evidences to obtain more firm results. There is a real need for empirical studies in field of new management systems and their impact on company's performance. As importance role of continuous improvement in today's organizations, and lack of sufficient evidence to show the positive impact of 5S on organizational performance. To determine performance factors and characteristics in industrial organizations and identifying the effectiveness of 5S implementation on organizational performance as well.

The results show that 5S is an effective tool for improvement of organizational performance, regardless of organization type, size, its production or its service. Consequently, 5S techniques would strongly support the objectives of organization to achieve continuous improvement and higher performance.

As per the journal : Mohd Nizam Ab Rahman, Nor Kamaliana Khamis, Rosmaizura Mohd Zain, Baba Md Deros and Wan Hasrulnizzam Wan Mahmood,(2010)" ,Implementation of 5S Practices in the Manufacturing Companies", American Journal of Applied Sciences 7 (8): 1182-1189, 2010 ISSN 1546-9239© 2010 Science Publications

VI: ANALYSIS AND DISCUSSION:

Table 1: Finding the major cause in each and every step of 5s

	Factor	Mean
Sort	Unwanted materials	3.5666
	Finding materials	2.8333
	Red tag	1.4333
	Unnecessary items from store	3.5333
	Space efficiency	2.4
Set in order	Products organized	2.1333
	Materials are stored in proper racks	2.333

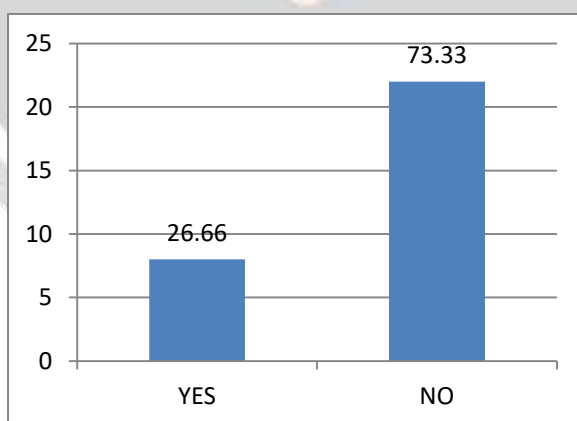
	Labelling items	2.4666
Shine	Surface free from dust	2.9
	Right substrates	2.7
	Scheduled cleaning	3.0667
Standardize	Team established	2.9333
	5s agreement	3.0666
Sustain	5s concept	2.9333
	Effort	3.46

Inference

- The input materials lying on the floor is clear that mean value = 3.566 which is equal to 4 where, 4 implies most of the time unwanted materials lying on the floor
- The easy access of material it is clear that the mean value = 2.8 which is equal to 3, where 3 implies that few of the materials are easily found
- implementation of red tagging it is clear that the mean value = 1.4333 which is equal to 1, where 1 implies that red tagging is not done in any department

Table 2: Finding whether there is space in the store

SPACE	NO OF RESPONDENTS	PERCENTAGE
YES	8	26.66
NO	22	73.33
TOTAL	30	100



Inference

- From the chart, 73.33% of the respondents indicate that there is no proper space to walk around in the store to get the materials, and 26.66% of the respondents indicate that there is adequate space. So in order to rectify this problem, layout change has to be done.

VII. SUGGESTION AND CONCLUSION

- A trolley is to be introduced as a material handling device so that the movement of the materials from the store to production area is easy
- For shine to be implemented all the materials and places are to be kept clean, usually the cleaning would take place in the evening now a new system is to be implemented where bell is given both in morning and evening. Now set in orders has been implemented in stores , the same is done in the production unit
- For 4s to be implemented a daily check list to be followed where the following is to be considered
 - Specific procedure was followed
 - All obligatory rules in the company are obeyed
 - Rules and regulations of the company were followed
 - Establishment of rules and standard operation procedure
 - Improvement in workflow
- When all 4s is being implemented in order to sustain the final principle of 5s, is by increasing the awareness, improvement of inter human relationship inspection of 5s activities

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