



A Study of Role of Production Planning System

KEYWORDS

Production , Planning , System , Quality

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ABSTRACT *A study is based on the production planning system in Leben Laboratories Pvt. Ltd. In Leben they always make a planning for good results but a control system is not strong. This is a export unit. All quality aspects are followed while making production planning . It is helpful in minimizing cost and increase in profit. There is coordination in various resources and departments. Hence, the management maintain the quality and healthy relations.*

Introduction:

Production planning is one of the planning functions that a firm needs to perform to meet the needs of its customers. It is a medium range planning activity that follows long range planning in such as process planning and strategic capacity planning. Firms needs to have an aggregate planning or production planning strategy to ensure that there is sufficient capacity to meet the demand forecast and to determine the best plan to meet this demand. Production planning is designed to explain the concepts of production functions and include planning and control of various activities in a company. Productions planning include aggregate, capacity and shop floor planning. Production planning is a pre-production function performed to match its productions capacity with the estimated market demand in the most feasible manner. Production planning is an important function of production management that usually follows other functions and help to determine the performance of an organization. Production planning is the direction and co-ordination of the organization, material and helps in the attainment of specified goals in the most efficient manner. Production planning is the function concerned with planning, directing and controlling the method to be used to make products and the way in which the production facilities buildings, machines, equipments etc. should be laid out in the space available for production. It is concerned with developing specific course of action for the production system. It is the means by which a manufacturing plan is determined, information for its execution and data collected and recorded which will enable the plant to be controlled through all the stages. It is a universal production activity. It is the prerequisite of production planning. It includes the routing of production activities and layout of production facilities such as buildings, machines, equipment etc. It is related to planning, directing and controlling of production techniques for the manufacturing of products.

Research Methodology :-

Survey method used for the study. Primary data collected through questionnaire and interview of managers, supervisors and employees. Secondary data collected from books, journals, magazines and internet. 50 employees selected randomly from various categories. The study is limited to Leben Laboratories Pvt. Ltd. and it is also limited to know the production planning system in Leben Laboratories Pvt. Ltd.

Objectives of the Study:-

1. To study how to co-ordinate different resources and departments of production system in most effective and economic manner.
2. To study the nature and magnitude of different input factors to produce output.
3. To evaluate, how to produce right quality and right quantity at right time by ensuring flexibility to accommodate changes and uncertainty.

4. To study how production planning system provides the information about the difficulties expected to crop up later, to the management beforehand.

Analysis and Interpretation of Data :

- 1) All respondents responded that, production planning department exists in Leben Laboratories. Pvt. Ltd.
- 2) 70 % respondents responded that, expert staff is not available in Leben .
- 3) 50 % respondents responded that, production planning is made according to the capacity of plant to fulfill market demand.
- 4) 60 % respondents responded that, company does not determine the target before making production planning.
- 5) 80 % respondents responded that, production planning is made separately for each department.
- 6) 96 % respondents said that, all quality aspects are followed while making production planning .
- 7) 56 % respondents said that, production planning is not made according to the production facilities of the plant.
- 8) 52 % respondents responded that, there is no deviation made from standards while implementing production planning.
- 9) 76 % respondents responded that, production planning is rigid.
- 10) 76 % respondents responded that, production planning is not implemented within the predetermined time.
- 11) 40 % respondents responded that, obstacles in implementation of production planning in Leben is lacuna in production planning.
- 12) 60 % respondents responded that, production planning is made according to market demand.
- 13) 50 % respondents said that, production planning helps in meeting the risk of uncertainty at operational stage .
- 14) 56 % respondent said that, production planning helps in increasing productivity.
- 15) 76 % respondents responded that, production planning is helpful in determining the target .
- 16) 60 % respondents fully agreed that, production planning is helpful in minimizing cost.
- 17) 66 % respondents agreed that, production planning plays vital role in maintaining quality of products.
- 18) 68 % respondents said that, Leben sets the objectives of their enterprise through production planning system.
- 19) 40 % respondents agreed that, production planning is helpful in producing right quality and right quantity at right time by ensuring flexibility to accommodate changes and uncertainty.
- 20) 40 % respondents fully agreed that production planning system provides the information about the difficulties or the various awkward positions expected to crop up later to the management beforehand.
- 21) 60 % respondents agreed that, production planning sys-

tem coordinates different resources and departments of production system in most effective and economic manner.

- 22) 60 % respondents fully agreed, that production planning helps to operate the plant at predetermined level of efficiency.
- 23) 52 % respondents responded that, Leben follows the different phases of Production Planning System while making production planning.
- 24) 70 % respondents responded that, Leben does not follow techniques like routing, scheduling, dispatching, loading, follow up while implementing production planning.
- 25) 50 % respondents fully agreed and 30% agreed, that production planning system is a powerful tool in the hands of management in this age of cut throat competition.
- 26) 80 % respondents said that, production planning system is helpful in purchasing, storage, inventory control, standardization and variety reduction.
- 27) 76 % respondents said that, production planning is designed to satisfy customers quantitative and qualitative needs.
- 28) 60 % respondents said that, production planning is not made by considering low capital investment.
- 29) 60 % respondents responded that, production planning is made in consideration with the making of plans for product development and design.
- 30) 64 % respondents said that, production planning is not made by proper process and product selection.
- 31) 40 % respondents fully agreed and 40 % agreed that, production planning provides the basis for production control.
- 32) 90 % respondents responded that, the employer plays vital role in making production planning.

Conclusions :

- 1) Production planning is made in Leben Laboratories Pvt. Ltd., but there is no such expert staff is present in the company.
- 2) Production planning is made according to the capacity of the plant and separately for each department, but not implemented accordingly.
- 3) Production planning is not made according to the facilities and stock inventory of the company, although all quality aspects are followed.
- 4) Lack of flexibility in production planning results into the failure of production planning .
- 5) Production planning is made without determining the target and without considering time, which creates obstacles in the implementation of production planning.
- 6) Production planning is not made according to available resources which results into low productivity.
- 7) Due to lacuna in production planning system it results in improper implementation of production planning.
- 8) Production planning is made according to market demand and market analysis, but not according to the availability of raw material, packing material, man, machines and other resources.
- 9) Production planning is not made by the best utilization of resources, which results in lack of facing the unforeseen conditions.
- 10) Company do not make any research for available resources before making production planning, which results in improper utilization of available resources.
- 11) There is no coordination among various departments which creates difficulties while following production planning.
- 12) Leben follows the different phases of production planning system while making production planning, but does not implement practically.
- 13) Leben does not follow various techniques like routing,

scheduling, dispatching, loading, follow-up while implementing production planning practically.

- 14) Production planning is not made by considering low capital investment, which results in failure of production planning.
- 15) Production planning is not made by proper process and product design, which therefore affects the cost of production and productivity too.
- 16) Production planning is not made by considering the preventive maintenance of machines on regular basis which therefore creates obstacles in day to day working of machines and finally results in failure of production planning.
- 17) Improper utilization of available resources is responsible for deviation from standards which affects the reputation of the company.

Suggestions :

- 1) Expert staff should be appointed for making production planning or proper training should be given to the existing staff about production planning.
- 2) Proper research should be done on production planning before making production plan.
- 3) A research team should be appointed to do research on available raw material, packing material, man, machines and other resources for the successful implementation of production plan.
- 4) Production planning should be made for short period i.e. for week or 15 days or a month, rather than making for 2-4 months in advance.
- 5) Special daily or weekly meeting of the production planning department only should be called for the successful implementation of production planning.
- 6) Stock inventory of raw material and packing material should be done in advance and or daily or weekly basis so as to avoid unavailability of raw material and packing material at operational stage.
- 7) Production planning should be made according to proper market demand, available resources and their best utilization so as to avoid deviation from the standards.
- 8) Production planning once made for a week or month should rarely changed (only if urgency is there) for the smooth and successful implementation of production planning.
- 9) If any changes are made in the production plan (if necessary) then that should be communicated to each and every department related to production activity.
- 10) There should be proper utilization of available resources which helps to determine the target of the enterprise in specified time.
- 11) There should be proper coordination between various departments in systematic manner so as to maintain balance between different production activities.
- 12) Company should follow various techniques of production planning like routing, scheduling, dispatching, loading follow-up while implementing production planning actually at the shop floor.
- 13) Production planning should be made by proper product and process design which therefore minimizes the cost of process, production and increases productivity too.
- 14) Production planning should be made in consideration with preventive maintenance on regular basis so as to avoid obstacles due to machineries at the operational stage.
- 15) Changes in production planning should not be made or should be minimum so as to avoid the obstacle at shop floor and smooth implementation of production planning.
- 16) A special team should be appointed to do the analysis of failure of production planning and a proper analysis should be done for the failure of production planning.

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