



## Application of linear programming model in a bag manufacturing industry with a particular reference to the Agawa leather store, Patna

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Received : November 2019

Accepted : March 2020

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**Abstract :** *The characteristic feature of industrial development strategy is the proper use of resources at every step of production. The desired production can be achieved by successful management and decision making techniques used in the industry. Linear programming is a method which can be used for optimizing profit in industrial production. The study was conducted to find out the maximum profit level that can be attained in a small scale industry producing different purse with raw materials such as leather, cloth and the labour hour consumed. The data were collected from a small scale industry*

*and calculated in order to get the value of the number of each purse it should produce in order to maximize its profit.*

**Keywords:** *Industrial development, linear programming, optimal solution, objective function.*

### Introduction:

Any company's endurance in a competitive market closely depends on its skill to manufacture high quality products at the minimum possible cost. Now a days where there is throat cutting competition in industries and business, it is very essential to survive in the business against all odds. Any commercial activity requires a prime objective. Uses of modern techniques are rarely used in production for maximizing the objective (i.e., profit). In any organization, managers have to take decisions while, planning the activities. Generally, decisions were taken based on past experiences, the style of working of the manager and judgement. Though, decisions taken on this manner had the risk of making wrong decisions which would affect the expenditure of the project. To conquer this difficulty managers have started directions and hence there is a requirement for improvising the strategies relevant to business. There is a

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