

A STUDY ON MULTI OBJECTIVE TRANSPORTATION MODELS AND RELATED TOPICS

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OBJECTIVES

- To minimize the cost and time of transporting Urea by using Multi- Objective Transportation model.
- To ascertain the quantities of certain foods that should be eaten to meet requirements for curing the health disorder Anaemia and Hypotension.

ABSTRACT

In this Research, a Multi Objective Transportation problem to minimize the total distance as well as time and cost of transporting Urea through Truck loads and Wagons has been studied. A case study was made in the Ports of Tuticorin, karaikal and Vishakapattinam. Using the data a Multi Objective Transportation problem was formulated and it was solved using the existing methods. Moreover, Multi Objective Transportation problem approach has been used to solve the dietary problem for curing the Nutritional Health Disorder with the minimum cost.

SIGNIFICANCE

The proposed mathematical model will be very helpful for decision maker s to select an appropriate transportation schedule, depending on his financial position and the decision maker to evaluate the economical activities and make the correct managerial decisions.

CONCLUSION

The above proposed mathematical model is adopted by the suppliers and wholesalers of urea in Tamilnadu and Andhrapradesh state it would not only involve minimization of transportation cost and also minimizes the time in transporting the goods by different carriers on the other hand.