Abstract

This article reports on a particular module of Road Maintenance Management System was developed with the purpose of distributing Roads Maintenance Fund for the road network between the implementing units. This computational model was developed by optimizing three major parameters: priority ranking model, road network length model and budget needs model.

It is concluded that the multi stage Model combining road network length, priority ranking as well as maintenance needs provides a rational approach for allocation of maintenance fund to implementing agencies.

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**Index Terms**

Computer Science

Information Sciences

**Keywords**

Road Management System, Budget split, Asset Management, Homogeneous Sections, constrained budget, unconstrained budget, Road Fund Allocation.