

PAVEMENT PERFORMANCE MODELING OF RURAL ROADS

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Abstract

The research focuses on the observation and quantities analysis of potholes using XLSTAT software and declare and deduce a model to enhance the readability of the pavement thorough record of traffic intensity, pavement age, mean monthly precipitation was observed over tree districts namely Guntur, Kurnool and Warangal for a period of 6 months. The values obtained were calculated and the pavement condition was analyzed the analysis of stripping value and longitudinal gradient was plotted and as observed that the rather was inversely proportional to pothole progression and a comprehensive model was developed and proceed. The project sheds ample light on the effects of potholes in the surface of the pavement and can cause increments in the accidents. The study showed that the influence of potholes on the surface not only causes accidents but also arrests any possibility of traffic congestion, The need for reform is quite necessary and the decision is made on the values obtained from the graphs depicted in the figures The further scope of this project shall extend to further heaving, cracking, stripping, and longitudinal failures. The distresses can be studied in after regions of the state and may be included and analyzed using other modeling methods

Key words: Distress, Pavement, roughness, XLSTAT software, pot holes