ABSTRACT

The country has witnessed tremendous increase within the vehicle population and exaggerated axle loading pattern throughout the last decade, leaving its road network overstressed and resulting in premature failure.  The sort of degradation gift in the pavement ought to be thought of for determining whether or not it's a practical or structural deficiency, so acceptable overlay type and style is developed. Structural failure arises from the conditions that adversely have an effect on the load carrying capability of the pavement structure. Inadequate thickness, cracking, distortion and disintegration cause structural deficiency. Functional deficiency arises once the pavement does not offer a swish riding surface and comfort to the user. This may result to poor surface friction and texture, hydro designing and splash from wheel path, rutting and excess surface distortion like potholes, corrugation, faulting, rutting and excess blow up, settlement, heaves etc. Functional condition determines the extent of service provided by the facility to its users at a specific time and conjointly the Vehicle operational prices (VOC), thus influencing the economy. This study tries to spot the parameters that affect the performance of roads and to develop performance models appropriate to Vijayawada conditions. A literary criticism of the varied factors that contribute to the pavement performance has been given supported the information collected from selected road stretches of Vijayawada. These roads represent the urban conditions likewise as National Highways, State Highways and Major District Roads within the sub urban and rural conditions.