



KERAJAAN MALAYSIA

**MANUAL FOR THE STRUCTURAL
DESIGN OF FLEXIBLE PAVEMENT**

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Manual For The Structural Design of Flexible Pavement



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Cawangan Kejuruteraan Jalan & Geoteknik



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FOREWORD

The purpose of this Arahan Teknik (Jalan) 5/85 (Pindaan 2013), hereinafter called **ATJ 5/85 (Pindaan 2013) : Manual for the Structural Design of Flexible Pavement**, is to provide JKR and consultants engaged in pavement engineering projects in Malaysia with a uniform process of designing pavements for all classes of traffic. This Manual is based on proven, validated pavement design technologies; it builds on past JKR practice and experience and on design methodologies that have been successfully used in other countries. The design approach recommended in this Manual combines improved design development data and mechanistic methods of analysis into a single tool that is presented in the form of catalogue of predesigned pavement structures.

This Manual will supersede the existing JKR pavement design manual (Arahan Teknik Jalan 5/85) which is based on Asphalt Institute and AASHTO design procedures which have undergone several revisions to date. This Manual is also a revised version of the JKR pavement design manual (JKR 20601-LK-0156-KP-05) which was prepared under Cawangan Pakar dan Kejuruteraan Awam in 2006.

The preparation of this Manual was carried out through many discussions held by the committee members who are experts in their respective fields. Feedbacks and comments received were carefully considered and incorporated into the Manual wherever appropriate. This Manual had also been presented and approved in the *Mesyuarat Jawatankuasa Pemandu Pengurusan* Bil. 2/2013 on 15th January 2013.

This Manual will be reviewed and updated from time to time to incorporate the latest development in pavement technologies. In this respect, any comments and feedback regarding this Manual should be forwarded to Unit Standard & Spesifikasi, Cawangan Kejuruteraan Jalan & Geoteknik.

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