ABSTRACT

Indian Road Congress has nominal the planning procedures for versatile pavements supported
C.B.R values. The pavement style has amid the code IRC: 37-2000 and Ministry of State Transportation (MOST) specifications. during this project report, the pavement layers, its
prescribed limits by Ministry of State Transportation (MOST) and sources of raw materials
required for the birthing|parturition|birth|giving birth birthing} of pavement related to laying of four lanes on National route (NH)- 18 between Kadapa and Kurnool. The project road starts from Kadapa (km 167.750 to km 356.502) to Kurnool, which has the design length of project road of 188.752 km. This length is considered as one package for construction purpose on Build Operate and Transfer (BOT) basis as per the directions of National Highway Authority of India (NHAI).The alignment of highway passes through plain terrain for 177 km length and balance length of 15.2 km is in rolling and mountainous terrain with reserve forest land on both sides of the alignment. Generally, the existing road is on 0.5-2.5 m high embankment except at approaches to major bridges, where it is up to 5 m. The existing carriage width is 7.0 m with 1.5 m paved shoulder at locations of settlements. There are 437 no. of Cross Drainage (CD) structures present in 192.2 km stretch of the project road. These include 5 major bridges, 69 minor bridges and 363 culverts.

Key words: Highway Design, Plain Terrain, Embankment, Quality Control