A STUDY ON REHABILITATION & UPGRADATION OF NH165 FROM KM0.0 TO KM58.02 IN THE STATE OF ANDHRA PRADESH ON EPC MODE

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ABSTRACT

Ministry of Road Transport and Highways, Central Government of India declared one new national highway as NH 165 starts from Pamarru, Krishna, Andhra Pradesh to Digamarru, west Godavari district, Andhra Pradesh. Total length of this section is 107.66km. MORTH has instructed state PWD to take up fresh study for finalizing most feasible alignment and improvement of existing features to develop same a minimum 2 lane with paved shoulder through EPC mode. Total length divided into 2 packages, package-I comes from Pamarru to Allapadu, Krishna, Andhra Pradesh and remaining section comes under package-II. After studying features, we got 58.2km design length. Due to this project distance and travel time between Vijayawada to Digamarru would be considerably low compare to present connectivity, as 3 new bypasses proposed those runs out of major towns. For detailed project report data collection divided into 3 parts. Traffic data, topography data, geo-tech data. We had followed most realistic and reliable methods while analysing data. Like collection of fuel sales data for seasonal variation factors while converting ADT to AADT. And linear regression analysis by using economic models prescribed in IRC: 108-1997. For each 10m interval we have taken total station data. And set up temporary benchmarks by installing GPS Pillar made by concrete. Each 2km interval we have collected soil sample from trail pits and original ground level. Pavement condition survey and Benkelman beam deflection technique conducted on existed pavement. Along the length 4 by-passes proposed to avoid widening in built-up areas. Tech-revetment proposed for canal lining and lime stabilization is favourable for particular CH soil.