

GOVERNMENT OF INDIA
MINISTRY OF ROAD TRANSPORT AND HIGHWAYS

LOK SABHA
STARRED QUESTION NO. 157
ANSWERED ON 28TH DECEMBER, 2017

CONSTRUCTION OF HIGHWAYS

*157. SHRI CH. MALLA REDDY:
SHRIMATI ANJU BALA:

Will the Minister of ROAD TRANSPORT AND HIGHWAYS
सड़क परिवहन और राजमार्ग मंत्री

be pleased to state:

- (a) whether the Government proposes the use of new material and technologies like bio-enzymes made from plants and vegetables and thermal insulators for construction of Highways in the country;
- (b) if so, the details thereof;
- (c) whether the Government plans to use waterproof coat, prefabricated drainage system to reduce road damage due to rains;
- (d) if so, the details thereof; and
- (e) the steps taken by the Government in this regard?

ANSWER

THE MINISTER OF STATE
IN THE MINISTRY OF ROAD TRANSPORT & HIGHWAYS

(SHRI MANSUKH L.MANDAVIYA)

(a) to (e) A Statement is laid on the Table of the House.

STATEMENT REFERRED TO STARRED QUESTION NO. 157 ASKED BY SHRI CH. MALLA REDDY AND SHRIMATI ANJU BALA ANSWERED ON 28TH DECEMBER, 2017 REGARDING "CONSTRUCTION OF HIGHWAYS"

(a) & (b) This Ministry is primarily responsible for development & maintenance of National Highways. Ministry encourages use of new materials and techniques in construction of National Highways and has so far allowed twenty two new materials/techniques to be used on National Highways. So far, bio-enzymes made from plants & vegetables and thermal insulators have not been used for construction of National Highways.

(c) & (d) The pre-fabricated system for drainage of storm water like pre-fabricated drain sections, hume pipes etc. are already being used. The use of water proof coat is mostly used in bridge deck and not common in road drain works.

(e) Ministry had decided to implement a "Value Engineering Program" to achieve i) increase in speed of construction, ii) reduction in cost of construction, iii) increased asset durability and iv) improved aesthetics and safety. For this purpose Ministry has constituted a National Panel of Experts (NPE) under the Chairmanship of Shri S. R. Tambe Secretary PWD, Maharashtra (Retired) comprising 9 members for resolving the technical issues in the implementation of new or innovative technologies, materials and equipment for recommendation. NPE will also be entrusted to examine various alternative technologies when individual proposals from proponents of new technology/alternative materials/equipment are placed before them. The NPE is empowered to approve the new technologies/materials to be used either on trial stretches in appropriate cases or approve them for use in construction of highways. The new materials and techniques are helpful for increase in structural strength, capacity, durability, higher performance, environmental friendliness and cost effectiveness based on life cycle cost approach.
