

GOVERNMENT OF INDIA  
MINISTRY OF ROAD TRANSPORT AND HIGHWAYS  
**RAJYA SABHA**  
**STARRED QUESTION NO. 166**  
ANSWERED ON- 07/08/2024

**BIO-BITUMEN UTILISATION IN INDIAN ROAD INFRASTRUCTURE**

166. SHRI K.R.N. RAJESHKUMAR :

Will the Minister of ROAD TRANSPORT AND HIGHWAYS be pleased to state:

- (a) whether Government is considering large-scale usage of bio-bitumen instead of fossil fuel-based bitumen for road construction in the country and if so, the details thereof;
- (b) whether Government has conducted any study to assess the long-term performance and durability of road and pavement construction based on bio-bitumen, and if so, the details thereof, if not, any study is proposed to be conducted in future;
- (c) The details of roads and other related constructions using bio-bitumen in the country, and measures taken by Government to increase the production of bio-bitumen?

**ANSWER**

THE MINISTER OF ROAD TRANSPORT AND HIGHWAYS

(SHRI NITIN JAIRAM GADKARI)

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

---

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (c) OF RAJYA SABHA  
STARRED QUESTION NO. 166 TO BE ANSWERED ON 07/08/2024 ASKED BY SHRI  
K.R.N. RAJESHKUMAR REGARDING '**BIO-BITUMEN UTILISATION IN INDIAN  
ROAD INFRASTRUCTURE**'

---

(a) to (c) Ministry has sanctioned two (02) research projects, one each to IIT Roorkee, and Central Road Research Institute (CRRI) New Delhi in collaboration with Indian Institute of Petroleum (IIP) Dehradun to evaluate bio-bitumen in the laboratory and to assess the long-term performance of pavement constructed with bio-bitumen.

A test section has also been laid on Shamli-Muzaffarnagar Section of NH-709AD in November 2022 for performance monitoring for a period of three years to assess suitability of bio-bitumen in road construction. NHAI has also contemplated trial with bio-bitumen on Jorabat-Shillong section of NH-40. Envisaged benefits of bio-bitumen are reduction in bitumen import, reduced Green House Gas (GHG) emissions and opportunity for farmers/MSME to generate revenue and provide employment.

\*\*\*\*\*