

GOVERNMENT OF INDIA
MINISTRY OF ROAD TRANSPORT & HIGHWAYS
RAJYA SABHA
UNSTARRED QUESTION NO- 731
ANSWERED ON- 08/02/2023

USE OF WASTE PLASTIC IN CONSTRUCTION OF ROADS

731. SHRI NARESH BANSAL:

Will The Minister OF ROAD TRANSPORT AND HIGHWAYS be pleased to state:

- (a) whether any policy/guidelines have been issued by Government regarding construction of roads from waste plastic and other types of waste in country;
- (b) if so, the details with the aims and objectives thereof along with the present status thereof, State-wise including Uttarakhand;
- (c) the length and details of roads made using waste plastic in the country, State-wise;
- (d) whether such roads are cost effective and long lasting and if so, the details thereof; and
- (e) the steps taken by Government to increase the construction of the roads with plastic waste?

ANSWER

THE MINISTER OF ROAD TRANSPORT & HIGHWAYS

(SHRI NITIN JAIRAM GADKARI)

(a) & (b) Yes, Sir. Policy guidelines have been issued by the Ministry and standards/manuals published by Indian Roads Congress (IRC) for utilizing waste plastic and other waste materials such as fly ash, iron and steel slag, construction and demolition (C&D) waste, etc., in construction of National Highways (NHs). The aims and objectives of using such waste material is to reduce cost of construction, conservation of natural resources of the country and to promote sustainability.

(c) State-wise length of National Highways built using waste plastic is annexed.

(d) and (e) Cost effectiveness of roads built with waste plastic depends on the distance from the source of such waste plastic / other waste material, their amenability to segregate, etc. Performance of such roads is continuously under observation/ evaluation. Government has been promoting use of waste plastic in construction of flexible pavement of National Highways through several actions such as guidelines for mandatory use, evaluation of alternatives during project preparation, etc.

ANNEXURE

ANNEXURE REFERRED IN REPLY TO PART (c) OF RAJYA SABHA UNSTARRED QUESTION NO. 731 ANSWERED ON 08TH FEBRUARY, 2023 ASKED BY SHRI NARESH BANSAL, REGARDING USE OF WASTE PLASTIC IN CONSTRUCTION OF ROADS.

S. No	State	Length of National Highways in which waste plastic is used. (in km)
1	Andhra Pradesh	209.39
2	Andaman and Nicobar	1.00
3	Arunachal Pradesh	10.59
4	Assam	2.00
5	Chhattisgarh	106.38
6	Haryana	172.16
7	Goa	38.10
8	Gujarat	3.00
9	Jammu	1.00
10	Jharkhand	2.66
11	Himachal Pradesh	2.00
12	Kerala	45.11
13	Karnataka	521.80
14	Madhya Pradesh	132.30
15	Maharashtra	68.33
16	Manipur	8.47
17	Odisha	15.80
18	Punjab	13.65
19	Rajasthan	194.12
20	Tamil Nadu	34.97
21	Telangana	27.81
22	Uttar Pradesh	1163.36
23	Uttarakhand	38.13
24	West Bengal	14.72
