

**GOVERNMENT OF INDIA
MINISTRY OF ROAD TRANSPORT AND HIGHWAYS**

**LOK SABHA
UNSTARRED QUESTION NO. 2718
ANSWERED ON 22nd DECEMBER, 2022**

USE OF WASTE PLASTIC IN CONSTRUCTION OF ROADS

**2718. DR. SHRIKANT EKNATH SHINDE:
SHRIMATI RANJEETA KOLI:
SHRI SUMEDHANAND SARASWATI:
DR. SUJAY RADHAKRISHNA VIKHE PATIL:
DR. MANOJ RAJORIA:
DR. HEENA GAVIT:
SHRI UNMESH BHAIYYASAHEB PATIL:
DR. KRISHNA PAL SINGH YADAV:
PROF. RITA BAHUGUNA JOSHI:**

Will the Minister of ROAD TRANSPORT AND HIGHWAYS

सड़क परिवहन और राजमार्ग मंत्री

be pleased to state:

- (a) whether any policy/guidelines have been issued by the Government regarding construction of roads from waste plastic and other types of waste material in the country;**
- (b) if so, the details with the aims and objectives thereof along with the present status thereof, Statewise including Rajasthan;**
- (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;**
- (e) the steps taken by the Government to increase the construction of the roads with plastic waste; and**
- (f) the steps taken by the Government to procure good quality shredded plastic for the construction of roads?**

ANSWER
THE MINISTER OF ROAD TRANSPORT AND HIGHWAYS

(SHRI NITIN JAIRAM GADKARI)

(a) & (b) Yes, Sir. Policy guidelines has been issued by the Ministry to utilize 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, preserve scant natural resources of the country and promote environmental sustainability.

(c) Length of National Highways constructed using waste plastic is annexed.

(d) Cost of road built with waste plastic depends on mix design of wearing course of flexible pavement and vary with properties of aggregates. Such roads are expected to last longer. However, performance is under evaluation.

(e) Indian Road Congress (IRC) has published standards and this Ministry has issued enabling guidelines to promote use of waste plastic on NHs.

(f) This Ministry undertakes the NH projects on Engineering, Procurement and Construction (EPC), Build, Operate, Transfer (BOT) and Hybrid Annuity Mode (HAM), mode and in such contract / concession agreement, procurement of shredded plastic is the responsibility of the contractor/concessionaire.

ANNEXURE

ANNEXURE REFERRED IN REPLY TO PART (c) OF LOK SABHA UNSTARRED QUESTION NO. 2718 ANSWERED ON 22ND DECEMBER, 2022 ASKED BY DR. SHRIKANT EKNATH SHINDE, SHRIMATI RANJEETA KOLI, SHRI SUMEDHANAND SARASWATI, DR. SUJAY RADHAKRISHNA VIKHE PATIL, DR. MANOJ RAJORIA, DR. HEENA GAVIT, SHRI UNMESH BHAIYYASAHEB PATIL, DR. KRISHNA PAL SINGH YADAV, PROF. RITA BAHUGUNA JOSHI, REGARDING USE OF WASTE PLASTIC IN CONSTRUCTION OF ROADS.

S. No	State	Length of roads constructed using Plastic Waste (in km)
1	Andhra Pradesh	201.34
2	Arunachal Pradesh	10.59
3	Assam	2.00
4	Andaman and Nicobar	1.00
5	Bihar	-
6	Chhattisgarh	106.38
7	Chandigarh	-
8	Dadra and Nagar Haveli and Daman and Diu	-
9	Delhi	-
10	Goa	38.10
11	Gujarat	3.00
12	Haryana	-
13	Himachal Pradesh	2.00
14	Jharkhand	-
15	Jammu and Kashmir	-
16	Karnataka	440.00
17	Kerala	44.25
18	Lakshadweep	-
19	Laddakh	-
20	Madhya Pradesh	61.35
21	Maharashtra	66.00
22	Manipur	7.96

23	Meghalaya	-
24	Mizoram	-
25	Nagaland	-
26	Odisha	15.80
27	Punjab	13.65
28	Puducherry	-
29	Rajasthan	194.12
30	Sikkim	-
31	Tamil Nadu	23.43
32	Telangana	22.21
33	Tripura	-
34	Uttar Pradesh	422.50
35	Uttarakhand	38.13
36	West Bengal	14.72
