

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

**LOK SABHA
UNSTARRED QUESTION NO. 1029
ANSWERED ON 5TH FEBRUARY, 2026**

CONSTRUCTION OF NHS USING PLASTIC WASTE

1029. Dr. BACHHAV SHOBHA DINESH:

Will the Minister of ROAD TRANSPORT AND HIGHWAYS

सड़क परिवहन और राजमार्ग मंत्री

be pleased to state:

- (a) the number of kilometers of National Highways (NHs) constructed using plastic waste under projects of the National Highways Authority of India (NHAI) during the last five years, year and State-wise;**
- (b) whether the use of plastic waste in road construction has been made mandatory or remains optional in NHAI contracts and bidding documents and if so, the details thereof;**
- (c) the parameters, technical specifications and quality standards prescribed for such construction including conformity with Indian Roads Congress or other approved guidelines;**
- (d) the mechanism adopted by the Government/NHAI to verify contractor compliance with prescribed parameters such as third-party testing, site inspections, material certification and post-construction audits; and**
- (e) whether penalties, corrective measures or contractual actions have been taken against contractors for non-compliance or improper use of plastic waste in highway construction and if so, the details thereof?**

ANSWER

THE MINISTER OF ROAD TRANSPORT AND HIGHWAYS

(SHRI NITIN JAIRAM GADKARI)

(a) The number of kilometers of National Highways (NHs) including projects under the National Highways Authority of India (NHAI) constructed using plastic waste during the last five years, year and State/UT-wise is at Annexure.

(b) to (c) As per the extant policy, it is mandated that during project preparation, Detailed Project Report (DPR) consultant is to identify the source(s) of waste plastic, assess the quantity available and also evaluate its properties as specified in Indian Roads Congress IRC:SP:98 “Guidelines for the Use of Waste Plastic in Hot Bituminous Mixes (Dry Process) in Wearing Courses irrespective of whether project highway is located in urban /built-up areas or rural open country. After due-diligence regarding availability of waste plastic conforming to the quality as specified in IRC: SP: 98, DPR consultant includes the provision of its use in the Schedule ‘B’ of the EPC/HAM bid documents which govern the scope of the project.

(d) to (e) National Highway (NH) Projects are generally implemented on Engineering, Procurement & Construction (EPC)/Hybrid Annuity Model (HAM)/Build-Operate-Transfer (BOT) mode where contractor/concessionaire carry out their own design in accordance with applicable manual, standards/guidelines/codes, etc. Suitability of constituents' materials, mix design, plant and laying trials, mix production, laying & compaction as well as post-construction quality control and quality assurance test including third-party testing are verified by Authority Engineer (AE)/Independent Engineer (IE) engaged by the Government/NHAI. In-case of any non-compliance observed, corrective measures are taken in accordance with the contract provisions.

ANNEXURE**ANNEXURE REFERRED TO IN REPLY TO PART (a) OF LOK SABHA
UNSTARRED QUESTION NO. 1029 TO BE ANSWERED ON
05/02/2026 ASKED BY Dr. BACHHAV SHOBHA DINESH
REGARDING 'CONSTRUCTION OF NHS USING PLASTIC WASTE'**

Length of National Highways constructed using Plastic Waste (in Km)					
Name of State/UTs	2020-21	2021-22	2022-23	2023-24	2024-25
Andhra Pradesh	73.80	96.19	31.57	22.15	12.77
Arunachal Pradesh	8.46	4.00	0.00	0.00	0.00
Assam	0.00	0.00	0.00	0.00	0.00
Bihar	0.00	0.00	0.00	0.00	0.00
Chhattisgarh	6.33	0.00	0.00	100.00	0.00
Chandigarh	0.00	0.00	0.00	0.00	0.00
Dadra and Nagar Haveli and Daman and Diu	0.00	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	10.62	0.00
Haryana	0.00	0.00	15.87	0.00	0.00
Goa	38.10	0.00	0.00	0.00	0.00
Gujarat	3.00	0.00	0.00	0.00	0.00
Jammu	0.00	0.00	0.07	0.00	0.00
Jharkhand	0.00	0.00	0.00	14.66	0.00
Himachal Pradesh	0.00	0.00	0.00	0.00	0.00
Kerala	10.25	17.00	3.00	8.30	10.08
Karnataka	264.70	138.02	178.33	126.17	32.53
Madhya Pradesh	19.02	14.30	56.83	5.98	8.00
Maharashtra	2.45	4.02	39.75	18.40	0.00
Manipur	3.47	0.00	5.00	0.00	0.00
Meghalaya	0.00	0.00	0.00	0.00	0.00
Mizoram	0.00	0.00	0.00	0.00	0.00
Nagaland	0.00	0.00	0.00	0.00	0.00
Odisha	0.00	0.00	0.00	23.00	36.71
Puducherry	0.00	0.00	0.00	0.00	0.00
Punjab	0.00	13.65	0.00	0.00	0.00
Rajasthan	5.94	11.56	3.70	14.00	0.00

Sikkim	0.00	0.00	0.00	0.00	0.00
Tripura	0.00	0.00	0.00	1.00	0.00
Tamil Nadu	13.49	9.93	2.50	25.74	75.60
Telangana	12.64	6.06	4.79	15.93	7.14
Uttar Pradesh	299.16	377.02	327.53	306.00	90.58
Uttarakhand	14.96	4.10	0.00	0.00	0.00
West Bengal	5.00	1.00	3.90	1.62	0.00
