

GOVERNMENT OF INDIA
MINISTRY OF ROAD TRANSPORT AND HIGHWAYS
RAJYA SABHA
UNSTARRED QUESTION NO-428
ANSWERED ON-03/12/2025

ASSESSMENT AND OUTCOMES FOR HIGHWAY EXPANSION PROJECTS

428. SHRI ASHOKRAO SHANKARRAO CHAVAN:

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

- (a) whether Government has directed highway agencies like NHAI, National Highways & Infrastructure Development Corporation Ltd., Border Roads Organisation and others to prepare detailed reports of impact assessment and outcomes for highway expansion projects including stretches under the Bharatmala Pariyojana Phase to map measurable socioeconomic benefits and if so, the details thereof;
- (b) the details of all the metrics included for study and outcome report need to be prepared by the highway development agencies;
- (c) whether Government has set any timeline for submission of said report by various highway agencies; and
- (e) if so, the details thereof?

ANSWER

THE MINISTER OF ROAD TRANSPORT AND HIGHWAYS

(SHRI NITIN JAIRAM GADKARI)

- (a) to (b) Yes Sir. Government has issued mechanism for monitoring the outcome parameters of all capacity augmentation projects including Bharatmala Pariyojana. The details are annexed.
- (c) & (e) Agencies have been asked to compute and compile various data for evaluation of the outcome parameter at the end of financial year.

ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PART (a) TO (e) OF RAJYA SABHA UNSTARRED QUESTION NO. 428 ANSWERED ON 3rd DECEMBER, 2025 ASKED BY SHRI ASHOKRAO SHANKARRAO CHAVAN REGARDING 'ASSESSMENT AND OUTCOMES FOR HIGHWAY EXPANSION PROJECTS'

Outcome parameters to measure the impact areas at Project/Programme level are as under:

Sr. No.	Impact Area	Parameter	Definition	Metric level
1	Economic Impact	Economic Nodes Connectivity	Number of economic nodes connected within 25 kms of the project	Project / Program level
2		Access to large market/ Mandis	Reduction in time to reach large market/ Mandis by population within 10 km of the highways within the program	Program level
3		Increase in GDP	Increase in District GDP	Program level
4		Increase in consumer spending	Increase in sales of vehicles (2W/4W) and increase in sales of white goods	Program level
5	Logistics Impact	Distance Reduction	Reduction in travel distance between start and end points after construction of highway	Project / Program level
6		Time Reduction	Reduction in travel time between start and end points after construction of highway	Project / Program level
7		Logistics Cost Reduction %	Reduction in logistics cost, as a share of India's GDP	Program level
8		Access to Airport/Major Railway Station	Reduction in time to reach Airport/Railway Station by population within 10 km of the highways within the program	Program level
9	Social Impact	Social Nodes Connectivity	Number of social nodes (Tribal, Aspirational and LWE affected districts) connected within 25 kms of the project	Project / Program level
10		Access to Higher Education/Health Service	Reduction in time to reach college / hospital by population within 10 km of the highways within the program	Program level
11		Household Income	Increase in district household income	Program level
12		Access to Employment	Reduction in time to reach workplace from house by population within 10 km of the highways within the program	Program level

13	Environmental Impact	Fuel Efficiency	Reduction in fuel consumption due to distance reduction and improved road quality	Project / Program level
14		Reduction in CO2 emissions	Reduction in CO2 emissions due to the reduction in fuel consumption after construction of highway	Project / Program level
15	Road Safety & User Experience	No. of Accidents	Increase/decrease in number of accidents post construction of highway	Project / Program level
16		Riding Quality	“Good” if Roughness Index within limit and “Needs Maintenance” if out of limit bounds	Project / Program level
17		User Comfort	User experience due to improved riding quality and facilities	Program level
