

IIT Roorkee, An Integral Part Of The Study On India's First 'Highway Capacity Manual'

- The manual was launched by Mr Nitin Gadkari, Minister of Road Transport & Highways, Shipping and Water Resources, River Development and Ganga Rejuvenation
- Manual will act as a guide for Road Engineers and Policy Makers about Road Expansion

Roorkee: The Indian Institute of Technology Roorkee has been an integral part of the country-wide study for the formulation of India's first ever 'Highway Capacity Manual'. The manual known as Indo-HCM, has been developed by CSIR - Central Road Research Institute, New Delhi, was launched on Monday by Shri. Nitin Gadkari, Minister of Road Transport & Highways, Shipping and Water Resources, River Development and Ganga Rejuvenation. IIT Roorkee played an instrumental role in the extensive, country-wide study of the traffic characteristics on different categories of roads like single lane, two-lane, multi-lane urban roads, inter-urban highways and expressways and the associated intersections on these roads.

Speaking about the study, Prof. Manoranjan Parida, Principal Investigator from IIT Roorkee said, "The Manual has been developed on the basis of field data collected from real road network in India and presents rational values which can be useful for optimal design of highway system in the Country". IIT Roorkee was in charge of 3 modules of Indo HCM: (1) Capacity Estimation of Two Lane, Intermediate Lane and Single Lane Roads (2) Capacity Estimation for Unsignalized Intersections and (3) Capacity Estimation of Pedestrian Facilities.

Since the manual is designed for traffic conditions of entire country, traffic data were collected from different parts of India by associating with other research institutions.

The manual lays down guidelines on man-

agement of different types of roads, their intersections and the level of services to be put in place. It has been designed as a tool for guiding road engineers and policy makers while taking key decisions on planning, design and operational analysis of road network.

Speaking about the study and the manual, Prof. Ajit Kumar Chaturvedi, Director, IIT Roorkee said, "This project is an unique example of collaborative effort amongst research and academic institutions in India to develop manuals which are useful for field professionals and highway engineers"

Along with IIT Roorkee, the study also involved IIT Mumbai; IIT

Guwahati; School of Planning and Architecture, New Delhi; Indian Institute of Engineering and Science and Technology, Shibpur; Sardar Vallabhai Patel National Institute of Technology, Surat and Anna University, Chennai.

IIT Roorkee is among the foremost of institutes of national importance in higher technological education and in engineering, basic and applied research. Since its establishment, the Institute has played a vital role in providing the technical manpower and know-how to the country and in pursuit of research. It ranks amongst the best technological institutions in the world and has contributed to all sectors of technologi-

cal development. This is reiterated by the fact that the Institute has been ranked 3rd among the IITs in India and has been ranked 1st in Citations among all Institutes in India by the Times Higher Education Asia University Rankings 2018. It has also been considered a trend-setter in the area of education and research in the field of science, technology, and engineering. The Institute had celebrated its Sesquicentennial in October 1996 and now completed more than 170 years of its existence. It was converted to IIT on September 21, 2001 by an Ordinance issued by the Government of India declared it as the nation's seventh Indian Institute of Technology, an "Institution of National Importance".