Title of Research Subject	Practical implementation of community-based road design in small cities in
	India
Background and Objective	More than 150,000 people have died in traffic crashes in India, and analyses in
	India indicate that economic losses from traffic crashes are equivalent to 3%-
	5% of gross domestic product (GDP). So far, the International Association of
	Traffic and Safety Sciences (IATSS), in collaboration with the Indian Institute of
	Technology, has made proposals on planning and designing of community-
	based safe cities. Some of these measures can be implemented in the short
	term, while others require time over the long term, such as improving the
	atmospheric environment and improving transportation networks. In this
	project, based on a joint project with the Indian Institute of Technology, which
	has been implemented so far, we will aim at the practical implementation of
	intersection improvement rooted in the community by focusing on improving the
	safety and smoothness of intersections in small cities such as Patiala and
	Bulandshahr.
Expected results	High traffic engineering technical skills are required to improve road
(including foresight and	intersections in both skills for safety and smoothness of traffic flows. In
practicality)	Europe and the United States, the Road Safety Audit (RSA) system has been
	adopted, and third parties that are different from traffic managers and road
	managers have pointed out the need for improving roads. This project is
	expected to improve traffic safety measures for local roads in terms of technical
	capabilities by studying the possibility of improving intersections in small Indian
	cities. Furthermore, by conducting traffic condition surveys before and after the
	improvement of the intersections, it is possible to show a method of analyzing
	the effects of the intersection measures. Moreover, by grasping the effects of
	traffic crash countermeasures quantitatively, it will become possible to clearly
	indicate the need for future intersection improvements in small cities. Through
	horizontal deployment of such a method to other intersections where there are
	many problems, it is possible to reduce traffic crashes and alleviate traffic
	congestion in India.