

# 2009 Be Inspired Awards

## Innovation in Roads



### **RITES Ltd. (Highways)**

#### Feasibility Study, PPR for Ganga Express Driveway

Bihar, India

A growing city with a population of about 1.8 million, Patna has been built on the thick alluvial deposits of the Ganga River basin. The city is surrounded on three sides by rivers—the Ganga, Sone, and Poonpun—and lies in a high-risk zone for earthquakes. This heterogeneous topography made the \$458 million Ganga Express Driveway a unique and challenging project.

The highway will have a four- to six-lane divided carriageway with service roads and other associated facilities. To develop a feasible layout for the entire 21 kilometers along the Ganga, RITES explored several alternative routes based on reconnaissance survey and available digital terrain models of the area. MXROAD optimized the alignment and minimized the earthwork to effectively control the project cost.