



**COUNTRY**

QATAR

**NAME OF CLIENT**

ACE – ASSOCIATION CONSULTING ENGINEERS

**SOURCE OF FUNDING**

ACE – ASSOCIATION CONSULTING ENGINEERS



July 2008 - April 2010

**NORTH GATE – TRAFFIC IMPACT ASSESSMENT**

**DETAILED PROJECT DESCRIPTION**

The Traffic Impact Study was developed in accordance with the detailed land use proposed for the North Gate Project. A major objective was to assess trip generation to / from the project, as well as the capacity of the surrounding road network. By and large, this study seeks to determine not only optimum solutions and measures of effectiveness for roadway transportation the area, but also to highlight constraints.

The study provides an assessment of roadway capacity to accommodate expected traffic volumes. Traffic flows were assessed based on the current pattern of the North Gate development, the related trip distribution and existing site conditions, to evaluate the level of service of the road network. It was all done in line with the latest version of the «Guidelines, Procedures and Methodology for review and approval of Traffic Impact Studies» (February 2009).



**SERVICES PROVIDED**

- Analysis of existing traffic flows and assessment of existing conditions
- Calibration of the existing traffic model of the sub-area for year 2009.
- Assessment of forecasted traffic conditions for years 2016 and 2026 (with and without the North-Gate project).
- Analysis of the project's impact (carrying out two scenarios, with and without the North Gate Project).
- Analysis of macromodelling assessments results.
- Analysis of micro-modelling results for the studied area taking into consideration forecasted traffic volumes.
- Proposal for some mitigation measures to improve the functioning of the study area

