

COUNTY	Statewide	
ROUTE	N/A	
ITEM NUMBER	N/A	
DISTRICT	Statewide	
PROJECT DESCRIPTION	Consulting services are needed to perform various traffic simulation modeling tasks involving development, refinement, or use of small urban area models, county-level models, the statewide model, and MPO subarea models. Consultant services will also be utilized to refine current modeling procedures through the incorporation of additional data sources and innovative modeling methodologies.	
PROJECT MANAGERS	Rob Bostrom, P.E. and Barry House, P.E.	
USER DIVISION	Multimodal Programs	
APPROXIMATE FEE	<\$500,000, (estimated) including no more than 15% operating margin, to be assigned to four consultants. Each project will vary between approximately \$10,000 to \$100,000. Project assignments will be made on a rotational basis. Work is anticipated in five general categories, and the approximate amount in each category will be as follows:	
	Air Quality Models	\$175,000
	Small Urban Area Models	\$125,000
	Statewide Modeling	\$100,000
	MPO Subarea Modeling	\$50,000
	Innovative Modeling Methodologies	\$50,000
PURPOSE AND NEED	To develop traffic demand models to support air quality conformity analyses, small urban area planning applications, traffic forecasting, corridor studies, and other special planning studies.	
PROCUREMENT	Response Date	Thursday, June 28, 2001, 4:30 p.m. (Frankfort time)
SCHEDULE	Selection Committee Date	July 10, 2001 10:30 a.m.
	Pre-Design Conference	July 24, 2001
	Tentative Deadline for Consultant Fee Proposal	August 7, 2001
	Contract Negotiations	August 21, 2001
	Notice to Proceed	September 15, 2001
PROJECT SCHEDULE & PROJECT SCHEDULE MILESTONES	<i>(To be established as projects are initiated. The anticipated time frame for each modeling task is as follows:)</i>	

Air Quality Models	3 months
Small Urban Area Models	6 months
Statewide Modeling	12 to 18 months
MPO Subarea Modeling	3 months
Innovative Modeling Methodologies	12 months

The selected consultant is expected to meet the scheduled milestone dates.

#### EVALUATION FACTORS

1. Relative experience of consultant personnel assigned to project team with highway projects for KTC and/or for federal, local or other state governmental agencies. (10 points)
  2. Capacity to comply with project schedule. (10 points)
  3. Past record of performance on project of similar type and complexity. (10 points)
  4. Project approach and proposed procedures to accomplish the services for the project. (10 points)
  5. Consultant's Kentucky office where work is to be performed. (2 points)
- 75% - 100% of work accomplished in Kentucky offices – 2 points
- 26% - 74% of work accomplished in Kentucky offices – 1 point
- 0% - 25% of work accomplished in Kentucky office - 0 points

#### SELECTION COMMITTEE MEMBERS

1. Barry House, P.E., User Division
2. Lynn Soporowski, P.E., User Division
3. David Jones, P.E., Secretary's Pool
4. Amos Hubbard, P.E., Secretary's Pool
5. Joe Kearnes, P.E., Governor's Pool

#### DBE REQUIREMENT

None

#### SPECIAL INSTRUCTIONS

The Department reserves the option to modify the selected consultant's agreement to include any necessary engineering and/or related services for this project. At that time, the firm(s) will be pre-qualified by the Department in the required area(s).

The Consultant Selection Committee will select four consultant firms to perform the required services.

## SCOPE

Selected consultants must possess the expertise and capacity to be able to perform at least one of the traffic modeling tasks listed below:

1. **County Level Modeling** - Use the Kentucky Statewide Model, abbreviated data collection techniques, and transferable model parameters to develop subarea models for selected counties within Kentucky. These models would provide a basis for supporting KYTC's air quality conformity analysis being performed in multiple counties throughout the state.
2. **Small Urban Area Modeling** - Develop or update small urban area models for selected urban areas within Kentucky. These models would be used for urban plan development purposes and traffic forecasting for preconstruction activities on major projects.
3. **Statewide Modeling** - Update and revise the Kentucky Statewide Traffic Model. The statewide model has been used since 1975 to support traffic forecasting and systems analysis. The consultant must be familiar with freight modeling, long distance travel modeling, and other unique features of statewide modeling.
4. **MPO Subarea Modeling** - Create subarea traffic assignment or microsimulation models from MPO models. This task would be used to support Cabinet and MPO activities.
5. **Innovative Modeling Methodologies** - Develop new modeling methodologies for the applications listed above by incorporating new techniques and new data sources.

The table below lists the approximate number of studies and cost per study.

<b>Category</b>	<b># Studies</b>	<b>Fee Per Study</b>	<b>Category Total Fee</b>
Air Quality Models	7	\$25,000	\$175,000
Small Urban Area Models	4	\$10-50,000	\$125,000
Statewide Modeling	1	\$100,000	\$100,000
MPO Subarea Modeling	2	\$25,000	\$50,000
Innovative Modeling Methodologies	2	\$25,000	\$50,000
<b>Total</b>			<b>\$500,000</b>

The upset limit for each consultant will be \$125,000.

AVAILABLE KYTC STUDIES (reports)	<p>"Frankfort Urban Area Traffic Model Technical Memorandum," by Jordan, Jones, &amp; Goulding, Inc, December, 2000.</p> <p>"Sub-area Traffic Model Marshall County, Kentucky," by Wilbur Smith Associates, January 17, 2001.</p> <p>These documents will be available for review in the Division of Professional Services, Room 610, State Office Building, Frankfort, Kentucky, between the hours of 9:00 a.m. and 3:00 p.m. (EDT) from June 13, 2001 until June 28, 2001.</p> <p>After June 13, 2001, consultants may obtain copies from Lynn copies, 1122 US Highway 127 South, Frankfort, Kentucky 40601, Phone: 502/875-8341. Lynn Copies will set costs.</p>
PROJECT LENGTH	N/A
ADDITIONAL INFORMATION	<p>Selected consultants must have the capability to work in both the MINUTP and TransCAD software formats. Capability to work with the Cabinet's Highway Information System (HIS) database and GIS capability are also required.</p> <p>The County Level Modeling task and the Small Urban Area Modeling task are expected to be similar in approach to existing practice although innovative approaches are encouraged. Reports on both of these tasks are available upon request.</p> <p>It is expected that frequent coordination between the consultant and the Transportation Cabinet's user division will be necessary for each project.</p>
PROJECT FUNDING	State funds
PREQUALIFICATION REQUIREMENTS	
	<p><a href="#">MULTIMODAL SERVICES</a></p> <ul style="list-style-type: none"> <li>● Urban Transportation Studies</li> <li>● Traffic Forecasting</li> </ul>