**Section 3 Prequalification Response Format**

**T-4 Traffic Monitoring System Data Collection Statewide**

**Work involves the collection of traffic data such as the collection of short-term (48 hours minimum), traffic volume and vehicle classification counts at about 6,000 locations statewide in a 3 year cycle, in accordance with NJDOT Traffic Monitoring Program and the October 2016 Traffic Monitoring Guide or the newest edition published by FHWA.  In addition, approximately 72 major stations to be counted one continuous week every month vehicle classification. Also, approximately 400 special counts to be performed each year as needed which include volume and classification or turning movement counts, volume or classification at intersections. Work involves the collection of transportation features such as pavement widths, types and widths of median, number and widths of lanes, driveways, shoulder widths, pavement type, locate intersection with longitude and latitude, locate all state roadways in NJ and additional features specified by the Bureau of Transportation Data and Support. Work involves the collection of Digital video images along all state highways to provide driver’s perspective of roadway condition and serve as a visual documentation of roadway inventory.**

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| **Firm:** |  |

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| **Staff Requirements** | **Instructions: List staff that meet requirements highlighting qualifications, experience, and training certificates using format in Section 4.\*\*** | | |
| **Level A** | | |
| **Staff Level** | **Name** | **ER** |
| **Project Manager**   1. Licensed PE 2. W/5 years of experience in Project Management in supervision of professional and technical staff in the automated collection, analysis, and verification of transportation data, including 1 year of demonstrated understanding of GIS applications.   OR   1. Licensed Project Management Professional (PMP) 2. W/7 years of experience in Project Management in supervision of professional and technical staff in the automated collection, analysis, and verification of transportation data, including 1 year of demonstrated understanding of GIS applications.   OR   1. Minimum of BS in Civil, Transportation Planning, Geography/GIS or related field. 2. W/10 years of experience in Project Management in supervision of professional and technical staff in the automated collection, analysis, and verification of transportation data, including 1 year of demonstrated understanding of GIS applications. | **1** | 1. |  |
| **Data Analysis Professional**   1. BS or higher in GIS, Geography, Transportation Planning, Information Technology OR related field. 2. W/5 years of experience in data cleaning, validation and spatial analysis. 3. W/5 years of experience in database technologies. 4. W/3 years of experience in Machine Learning subject. | **1** | 1. |  |
| **Crew Chief Technicians**   1. 3 years of experience with ATR and AVC data collection and TMC and AVO data collection. | **1** | 1. |  |
| **Field Supervisor**   1. 3 years of experience with field supervision. | **1** | 1. |  |
| **Field Technicians**   1. 2 years of experience with GPS and automated traffic counting devices. | **4** | 1. |  |
| 2. |  |
| 3. |  |
| 4. |  |

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| **Firm’s**  **Project**  **Requirements**  Database management skills.  30 ATR, 20 AVC and 10 TMC equipment units.  Ability to acquire use of specialized roadway traffic counting equipment’s, ATR and AVC and the applicable software, as well as the use of GPS devices and its software to measure the appropriate coordinates of station ID locations. | Instructions: List the titles of projects that meet requirements using the format in Section 5 to report the specifics of the listed projects. Projects must have been completed in the last ten years.\*\* | | |
| Level A | | ER |
| **Two projects required +** | 1. |  |
| 2. |  |
| **Two projects required ++** | 1. |  |
| 2. |  |
| **One project required +++** | 1. |  |
| Ability to acquire data using LIDAR, Aerial Imagery or any other innovative technology and techniques (i.e.: GIS, GPS, automated roadway inventory/data collection software and devices, database management software etc.). Ability to process LIDAR or Aerial Imagery data. Ability to provide necessary equipment to accomplish stated above tasks. Have an expertise in GIS, and Data Management and Extraction areas. | **Two projects required ++++** | 1. |  |
| 2. |  |

**+** Projects that included database management tasks.

++ Projects which included collection of GPS data**.**

+++ Project which included collection of transportation data for 30 ATR sites, 20 AVC sites and multiple sites with 10 turning movements.

++++ Projects which included roadway features data collection with LIDAR or Aerial Imagery, data extraction & processing and all applicable database management software.

**\* Note: Projects demonstrating multiple requirements may be combined.**