

Title	Road Structures Inventory and Condition Surveyor
Vacancy Number	MoPW/SRTAP/RAMS/1400-02
Ministry	Ministry of Public Works
Organization	Road Asset Management Unit
Project	Sustainable Reform & Technical Assistance Project
Duty Station	Afghanistan (Various Provinces)
Duration	1 Year (with possibility of extension)
No of Jobs	12
Nationality	Afghan
Sex	Male/Female
Salary Range	According to NTA Salary Scale (Grade-C)
Announcing Date	04/April/2021
Closing Date	18/April/2021
Job Type	Engineering
Shift	Full Time
Job Status	Sourcing
Experience	Specific 1 year, General 4 years

**Background:**

The Ministry of Public Works (MoPW) is responsible for the planning, design, procurement, implementation, monitoring, and maintenance of the various transportation infrastructure projects such as roads, bridges, and its relevant drainage and retaining/protection structures in the government of the Islamic Republic of Afghanistan.

The Road Asset Management System (RAMS) is a planning tool that MoPW intends to use it to deliver a sustainable road management system. MoPW is in the process of building up on the previous progress made in establishing RAMS to produce annual maintenance plans and priorities the project. The ministry is recruiting data collectors to carry out pavement and roadway structures' inventory and condition surveys of the Strategic Road Network (SRN) and of rural roads throughout Afghanistan. The paved road share of SRN is around 7,000 km of various types of pavements including asphalt, concrete, and DBST. Roadway structures includes Bridges, Culverts, Tunnels, Avalanche Galleries, Causeways and Retaining Walls. MoPW will provide necessary training for the pavement inventory and condition surveyors on various types of inspections, data collection, use of inspection equipment, form filling, condition rating using severity and extent of various elements. The trainees will be able to identify defects and specify element's condition index and provide detailed description accompanied with photographs and sketches as needed.

**Scope of Work/Job Summary:**

The road structures inventory and condition surveyor will carry out all the required data for inventory of roadway structures (bridges, culverts, tunnels, avalanche galleries, causeways, retaining walls, protection walls, etc.) and its condition required for the prioritization of structures for maintenance/upgradation works, type of maintenance required for the road structures, budgeting, timeline, etc. The inspectors will identify defects and specify element's condition index and provide detailed description accompanied with photographs and sketches as needed.

**Duties & Responsibilities:**

- Manage structure inspection schedules and complete work plans;
- Liaise with MoPW central office and local authorities and get approval prior to site inspection;
- Carry out desk study and collect historical data pertaining to structures;
- Carry out inventory survey and fill its template as necessary;
- Carry out routine and periodic condition surveys of the road structures as planned, meticulously, systematically and in a consistent manner as requested by the team leader;
- Complete inspection forms, determine defect severity and extent, utilize survey equipment, take pictures, record videos, prepared drawings/sketches, and write inspection summary sheets;
- Complete Quality Assurance (QA) and Quality Check (QC) process in compliance with the Inspection Manuals;
- Validate data in compliance with the Inspection Manuals and quality control procedures;
- Estimate quantities and unit prices for repair works as required and assist planning personal on preventative and corrective actions required for maintenance;
- Carry out traffic counts when necessary and or monitor the traffic counters;
- Give required instructions to the traffic counters for the selection of traffic counting stations, team management, and counting procedures;
- Assisting traffic counters team in analyzing traffic counting data required for the planning;
- Keep soft and hard data on roadway structures such as inspection forms, sketches, drawings, calculations, reports, photos, etc.;
- Collect and sort data on each roadway structure in various folders for inventory, condition survey, condition index calculations, html ODK files, etc.;
- Fill out risk matrix spreadsheets before undertaking trips;
- Mark all defects in photos by identifying type, severity, and extent of each defect and record them in the prepared templates;
- Coordinate with RAMS core team, the Roadway Structures Officer, and GIS specialist to download raw collected data and upload inventory and condition data to central database in an accurate and reliable manner;
- Carry out supervision and provide guidance to the data collection contractor (if hired) to improve their performance and quality of the works;
- Participate in missions related to the project review and evaluation;
- Participate in the preparation and implementation of seminars and training courses;
- Any other task assigned by the relevant head/supervisor.

**Skills & Competencies:**

- Familiar with the road structures inventory and condition survey, data collection and their analysis;
- Experience with Structure Evaluation and Condition Rating methods;
- Ability to overcome challenges and work in difficult work environments/conditions (especially in

the field);

- Be able and willing to travel to all provinces and remote location in Afghanistan, including volatile and insecure areas;
- High degree of personal initiative and willingness to accept responsibility for poor data collection;
- Knowledge of road maintenance procedures;
- Basic knowledge of AASHTO LRFD bridge design standards will be an asset;
- Experience with bridge average and priority condition indices calculation will be an asset;
- Use of Excel, Word, Power Point, and AutoCAD.

#### **Job Requirements:**

- Minimum of bachelor degree in civil engineering, transportation engineering, and or any other similar discipline;
- Having of personal smartphone of 6.5inch diagonal dimension, with Android 10, 32GB free memory for use of data collection;
- Having of personal computer installed with MS Word, Excel, Power Point and AutoCAD software;
- Having min of 4-year work experience in road survey, design, maintenance and construction (general experience) and min of 1-year work experience of road/structures inventory and condition surveys and condition rating of relevant structures (specific experience);
- Knowledge of standard practices of maintenance and construction for road's structures;
- Basic experience working with GPS and survey equipment as necessary;
- Required verbal and written communication skills in English;
- Proven organizational and problem-solving skills;
- Able to travel to the remote area in all over the Afghanistan, collect required data and work as part of a team;
- Physical fitness and able to travel and complete inspection procedure;
- Perform any other survey related duties and tasks as assigned by the head/supervisor.

#### **Required Documents:**

- CV with an application form for the relevant position;
- Copy of verified Degree by the Ministry of Higher Education;
- Copy of verified Afghan ID Card (Tazkera) or Passport copy;
- Copy of verified last Posting Contract;
- Copy of other documents seems to be necessary.

#### **Submission Guideline:**

Interested candidates are requested to forward their applications, detailed CV and other required documents to [vacancies.mopw@gmail.com](mailto:vacancies.mopw@gmail.com) indicate the vacancy number **(MoPW/SRTAP/RAMS/1400-02)** and the post title **(Road Structures Inventory and Condition Surveyor)** in the subject line when applying by email to the Human Resource Unit – Sustainable Reform and Technical Assistance Project of Ministry of Public Works (MoPW) at Kabul, Afghanistan.

#### **Office Address:**

SRTAP Office, Railway Building, Kabul Jalalabad Road, in front of KMTC, MoPW, Kabul, Afghanistan.

Only short-listed candidates will be notified for written exam and interview