



Capacity Building for Bridge Maintenance Management Project



Background

It is becoming increasingly important to systematize the maintenance of bridges in Zambia because of their advancing age, increasing traffic volumes. Heavier weight of vehicles plus various modes of structural aging and deterioration. Thus it is necessary to consider appropriate bridge maintenance strategies and tools.

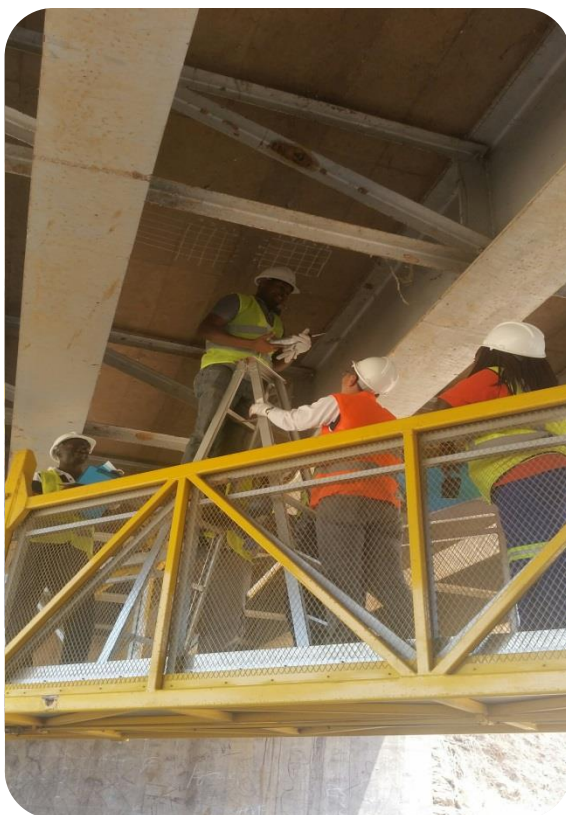
In view of this, JICA is implementing the Capacity Building for Bridge Maintenance Project with the Road Development Agency (RDA). Through this project, RDA engineers will participate in JICA training conducted in Japan for exposure to bridges and equipment that the country may consider as it plans to embrace new technology and improved bridges and bridge related infrastructure. In addition to this, the project includes training conducted by JICA experts where seminars, workshops and site visitations are conducted for actual field experience on bridge maintenance.

Overall Goal

Bridge maintenance activities are regularly implemented by RDA

Project Purpose

The institutional capacity of RDA is strengthened for bridge maintenance planning and operational management, which improvement of outsourcing contract management.



Project Outputs

1. RDA engineers understand the management cycle of routine maintenance and undertake supervision of routine maintenance activities.
2. RDA engineers utilize bridge condition inspection data for further investigation and planning of repair or replacement of bridges.
3. The knowledge on bridge repair technology of RDA engineers are enhanced and RDA engineers are able to prepare a bridge repair plan for pilot bridges using the data from condition inspection and Bridge Management System.
4. The Capacity of RDA for contract management is improved in the field of routine maintenance and repair on bridges.



Activities

Activity 1: Enhancement of Routine Maintenance for Bridges

- 1.1 Develop guideline for routine maintenance on bridges.
- 1.2 Conduct seminars on conceptual framework of routine maintenance on bridges.
- 1.3 Conduct on-the-job training for routine maintenance on bridges.

Activity 2: Improvement of Bridge Inspection

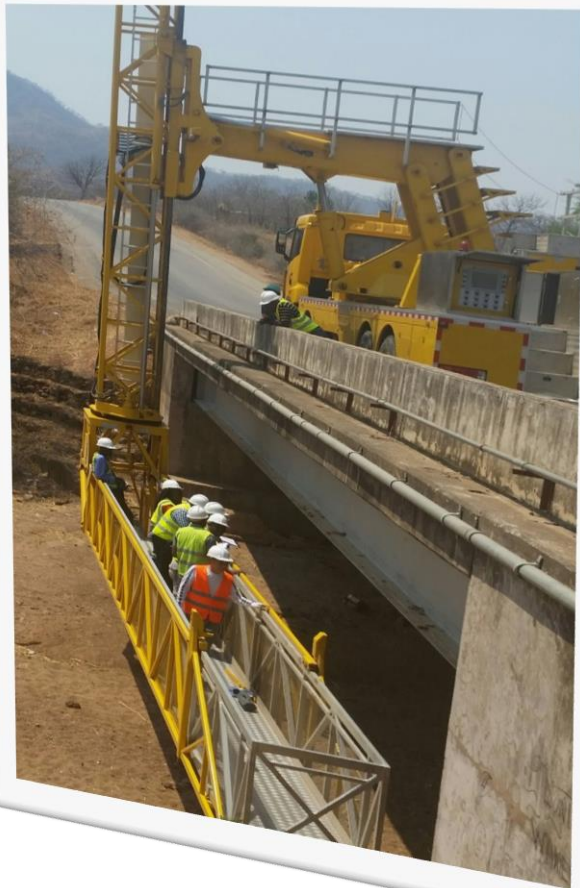
- 2.1 Review bridge inspection data.
- 2.2 Develop a guidebook for bridge inspection
- 2.3 Conduct on-the-job training for bridge inspection.

Activity 3: Improvement of Planning and Enhancement of Knowledge on Bridge Repair Technology

- 3.1 Develop an implementation plan for repair and/or replacement of selected bridges based on the condition inspection data and the data in the bridge management system.
- 3.2 Develop a guidebook for bridge repair .
- 3.3 Provide opportunities for counterparts to get exposed to bridge repair works through actual project .

Activity 4: Improvement of RDA for contract management

- 4.1 Develop contract templates and technical specification required for bridge routine maintenance outsourcing.
- 4.2 Prepare technical specifications of bridge repair contacts.



Implementing Organization

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Period of cooperation

From February 2015 to February 2017



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