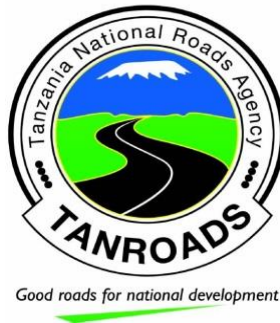


**THE UNITED REPUBLIC OF TANZANIA
MINISTRY OF WORKS AND TRANSPORT**



TANZANIA TRANSPORT INTEGRATION PROJECT (TanTIP)

**TERMS OF REFERENCE (TOR) FOR CONSULTANCY SERVICES FOR
TANROADS' CAPACITY STRENGTHENING – ENGAGEMENT OF
CLIMATE CHANGE SPECIALIST UNDER THE TANZANIA
TRANSPORT INTEGRATION PROJECT (TanTIP)**

AUGUST, 2023

TERMS OF REFERENCE FOR CONSULTANCY SERVICES FOR TANROADS' CAPACITY STRENGTHENING – ENGAGEMENT OF CLIMATE CHANGE SPECIALIST UNDER THE TANZANIA TRANSPORT INTEGRATION PROJECT (TanTIP)

1. INTRODUCTION

The Government of the United Republic of Tanzania has received a credit from the World Bank towards the funding of the Tanzania Transport Integration Project (TanTIP) which comprises of rehabilitation of Mtwara – Mingoyo – Masasi (200 km), Rutikira – Songea (100 km), Lusahunga – Rusumo (92 km) and Upgrading of Iringa – Msembe (104 km); and rehabilitation and improvements of Regional Airports of Tanga, Iringa and Lake Manyara. The Government intends to apply part of the proceeds of this credit to make eligible payments under the Contract for Individual Consultancy Services of Climate Change Specialist to support the Tanzania National Roads Agency (TANROADS).

TANROADS is the Executing Agency for the Project and is responsible for the procurement and management of contracts for the development of Tanzania Transport Integration Project (TanTIP) projects.

In order to manage properly the implementation of the project, TANROADS wishes to engage a dynamic, motivated, creative and open-minded Individual Consultant to support the management of the Project within the Project Implementation Team in the capacity of Climate Change Specialist of which, this Terms of Reference refers.

2. OBJECTIVES OF ASSIGNMENT

The principal objective is to support TANROADS to identify and characterize high climate change risks for the subcomponents of the TanTIP and come up with appropriate engineering and non-engineering adaptation measures that may be implemented on the designated road and airport infrastructure to strengthen the long-term climate change resilience of the roads and airports based on the following logical sequence of elements:

- Climate risk assessment
- Climate impacts
- Vulnerability assessment
- Criticality assessment
- Climate management plan: This plan will provide recommendations to enhance resilience of the sub-projects components. The recommendations may include non-engineering (nature based and hybrid) and engineering solutions. It will also evaluate the costs and benefits of measures and estimate incremental costs of enhancing resilience. The plan will provide a prioritization measures for short-term, medium-term and long-term.

A further objective is to ensure that proposals and mitigation measures put forward from Design Review and Supervision Consultants of the various components are valid and cost-effective.

3. SCOPE OF SERVICES

The scope of these services is to consider climate resilience measures and recommend viable solutions. The recommendation may include engineering, nature-based and hybrid solutions. As the principal advisor on climate change to the Project Implementation Team, the Climate Change Specialist will be required to undertake inter alia the following tasks:

- (i) Reviewing the climate change reports, proposals and mitigation measures submitted by design review and supervision consultants and/or Contractors engaged in the various subcomponents of TanTIP.
- (ii) Identifying hotspots where location-specific climate risks such as temperature extremes, flooding (coastal, riverine or precipitation-based), landslides or erosion may threaten high-priority critical transport infrastructure.
- (iii) Assessing their vulnerability to climate hazards, including future climate change, by stress testing the road/airport designs available, and the design standards used against the expected climate projections.
- (iv) Proposing climate resilience measures to be incorporated into project designs for construction, operation and maintenance stages of the Works.
- (v) Advising on implementation plans (including 'do-nothing') and assessing priority interventions at subcomponent level with guidance on optimal implementation strategies including cost implications for the priority measures and exposition of the benefits of the measures proposed.
- (vi) Assisting in advising on how to strengthen monitoring and maintenance activities taking into consideration climate resilience objectives, for example introducing regular inspections scour checks and deploying timely maintenance to prevent erosion. Furthermore, explore and deploy measures for using roads for water management.
- (vii) In regard to investments in community-based social infrastructure under the Project, advise on climate resilience through assisting in the selection of locations that have low exposure to natural hazards, and the incorporation of design measures that enhance climate resilience, like the deployment of appropriate drainage, roofing, and cooling/shade provisions. Guidance on new solar-powered streetlights that will be installed at selected populated areas.

4. QUALIFICATIONS AND EXPERIENCE

The desired attributes for the position are as follows:

(a) Education:

- (i) Degree in Environmental Sciences, Environmental Engineering or related relevant field.
- (ii) Master's degree or higher qualification in climate change adaptation, disaster risk reduction, engineering, or environmental sciences or a related field is an added advantage.

(b) Working experience:

- (i) Minimum of ten (10) years' experience in climate change analysis and adaptation in infrastructure projects;
- (ii) Practical experience in planning, managing and implementing climate change adaptation and resilience activities in at least 2 road/airport projects in the last 10 years;
- (iii) Proven capacity to translate complex climate change information for non-technical professional users of roads and or airports infrastructure projects; and
- (iv) She/he must have contemporary knowledge of climate change in the Sub-Saharan Africa or developing countries and a broad understanding of international developments in climate change, including climate change financing.

(c) Language and regional experience

- (i) Must have at least 3 years of working experience in developing countries; and
- (ii) Proficiency in written and spoken English is mandatory.

5. FACILITIES TO BE PROVIDED BY TANROADS

TANROADS will provide the Climate Change Specialist with facilities that will enable him/her to perform her/his duties in an efficient manner. These include but are not limited to a fully furnished shared office, IT facilities and connections (computer, printer, facsimile, internet connection). In case the Climate Change Specialist is assigned activities outside Dar es Salaam, TANROADS will bear the cost of transport and per diem allowances using Government rates.

6. DURATION OF ASSIGNMENT

The assignment shall be for a period of twelve (12) months, renewable based on the satisfactory performance of the Climate Change Specialist and the project needs. Services will commence immediately after signing the Contract.

7. RESPONSIBILITIES OF THE CONSULTANT

The Climate Change Specialist shall be responsible for all information, data and reports obtained from TANROADS in the execution of the Services shall be treated as confidential and shall become and remain the property of TANROADS.

The Climate Change Specialist shall be responsible for arranging for his own insurance, accommodation and local transport at his duty station (i.e. from his residence to office/duty station).

8. REPORTING

The Climate Change Specialist shall:

- (i) Prepare Monthly Progress Reports:

These reports shall contain an accurate and up-to-date: summary of all work accomplishments, work schedules to enhance TANROADS staff, a plan for on job training and a discussion of major problems and recommendations to address them. These reports shall be submitted to the Client on the 5th day of the following month; and

- (ii) Other reports as instructed by the Project Manager.

9. DUTY STATION

The duty station will be Dar es Salaam (TANROADS HQ offices), Tanzania with field visits as per requirement. The Climate Change Specialist must also be ready to relocate to Dodoma should TANROADS HQ Offices shift to Dodoma mid-way through the Contract.

10. PAYMENT TERMS

- (i) The Climate Change Specialist's salary is negotiable but will not be more than the

estimated value per month. A monthly lump sum amount of remuneration per month will include all his overheads, social charges and other associated costs including local transportation within Dar es Salaam and insurance premium costs. In addition, the salary takes into consideration the Consultant working extra hours should the need arise to achieve the project objective;

- (ii) The Climate Change Specialist shall be responsible for all taxes and duties applicable as per Government of Tanzania rules and regulations;
- (iii) In case of travel requirements outside TANROADS HQ and within Tanzania for project-related assignments, the Climate Change Specialist shall be paid travel expenses in line with the Government rules and procedures; and
- (iv) Payment to the Climate Change Specialist in respect of remuneration will not be adjusted for inflation for the duration of the assignment.

11. LEAVE AND WORKING HOURS

11.1. Leave

11.1.1. The Climate Change Specialist will be entitled to twenty-eight (28) days of paid annual leave during the assignment.

11.2. Working Hours

11.2.1. Ordinary working period starts from 8:00 AM to 4:30 PM commencing Monday to Friday excluding public holidays;

11.2.2. The Climate Change Specialist will be expected to work on reasonable extra time when the need arises at no additional payment; the Consultant's remuneration shall be deemed to cover for such overtime.

12. INSTITUTIONAL FRAMEWORK

The Climate Change Specialist will be reporting to the Project Manager - TanTIP.