

AFRICAN DEVELOPMENT BANK GROUP



REQUEST FOR EXPRESSION OF INTEREST – CONSULTANCY FIRMS

Consultancy Services for Updating of Feasibility Study, and Preparation of Environmental and Social Impact Assessment (ESIA), Resettlement Action Plan (RAP), Designs and Bidding Documents

Project: Tanzania Expansion of Transmission, Distribution and Last-Mile Connectivity Project

Country: United Republic of Tanzania

1. The African Development Bank (the AfDB or the “Bank”) hereby invites Consulting Firms to indicate their interest for the provision of consultancy service for the implementation of “*Updating of Feasibility Study, and Preparation of ESIA, RAP, Design and Bidding Documents for Tanzania Expansion of Transmission, Distribution and Last-Mile Connectivity Project*” in the United Republic of Tanzania (Arusha, Dodoma, Mbeya, and Mwanza Regions in Tanzania Mainland and Unguja and Pemba Islands in Zanzibar).
2. The Bank, working with the Government of the United Republic of Tanzania, is preparing for potential financing, a pipeline of power sector projects that will address the sector development needs of Tanzania. One of the projects identified is the above captioned project and the project is intended to reinforce transmission and distribution networks for Arusha, Dodoma, Mbeya, and Mwanza Regions in Mainland Tanzania and implement last-mile connectivity in Pemba Island in Zanzibar.

In Tanzania Mainland, the project involves implementation of the following scope:

- i. Arusha Region - Transmission Lines and Substation Projects:** Construction of 220kV Lines including 220kV D/C from New Arusha to Njiro (15km) and 220kV Makuyuni to Mto wa Mbu through LILO arrangement(26km). Construction of 220/33kV Substations including 220/66kV, 2x40MVA and 66/33kV, 1x20MVA Mto wa Mbu Substation Upgrade and Upgrade of 220/132kV, 2x180MVA, & 132/33kV, 2x50MVA Njiro Substation. Construction of 66kV Lines and Substations including D/C 66kV Mto wa Mbu – Wasso Line (197km), 66/33kV, 2x10MVA new Wasso Substation and Upgrade of 66/33kV, 2x20MVA Karatu Substation. **Distribution Network Projects:** Development of new 33kV distribution lines network from new Wasso Substation, Upgrade of existing 11kV to 33kV system and phase out use of Diesel Generator Set, Splitting/Reconfiguration of existing Karatu - Mto wa Mbu line, 33kV Interconnector from Mto Wa Mbu to Karatu substation, and Installation of compensation device/capacitors at Wasso substation and selected lines. New 33kV lines from New Arusha Substation, Splitting/Reconfiguration of existing Monduli line, 33kV Interconnector from Unga to Mount Meru substation, and Installation of compensation device/capacitor at Sakina Substation. Conversion of selected 11kV and 33kV overhead lines to underground network in Arusha City, and Installation of RMUs and Compact

Substations associated with underground cable works in Arusha City.

- ii. Dodoma Region – Transmission Lines and Substation Projects:** Construction of 220kV D/C Transmission Line Ring Network between Zuzu – Msalato - Ihumwa – Kikombo substation (approximately 114km). Construction of 220/33kV Ring Substations at Msalato (2x50MVA), Ihumwa(2x100MVA), Kikombo (2x50MVA), and Upgrade of Zuzu (Installation of 2x100MVA), Mtera (2x10MVA) and Bicha (2x40MVA) Substations. Construction of 33kV Switching Stations at Dodoma Town, NARCO and Mrijo. **Distribution Network Projects:** Construction of new 33kV lines and Interconnectors from proposed Ring Substations. Construction of 33kV lines from proposed Switching Stations at NARCO and Mrijo and replacement of existing outgoing 11kV lines from Dodoma Town Substation with 33kV lines. Construction of Underground Cable, RMUs, Compact Substations at Dodoma Government City and Dodoma CBD Area.
- iii. Mbeya Region – Transmission Lines and Substation Projects:** Construction of 220kV D/C from Mwakibete to Tukuyu (45km), and Construction of 220kV D/C from Mwakibete to Iganjo substation (9km). Construction of 1x50MVA 220/33kV Tukuyu Substation, Upgrade of Mwakibete Substation with 1x90MVA 220/33kV Transformer, and Replacement of 4 numbers 33kV oil circuit breakers with SF6 breakers at Mwakibete substation. **Distribution Network Projects:** Upgrade of Iyunga substation with additional 1x15 MVA 33/11kV Transformer, Upgrade of Mafiati substation with additional 1x15 MVA 33/11kV Transformer, and Upgrade of Tukuyu substation with 2x20MVA 33/11kV Transformer. Establishment of 33kV Luswisi Switching Station with 3 outgoing feeders, Establishment of 33kV Mswiswi Switching Station with 3 outgoing feeders, and Establishment of 33kV Songwe Industrial Area Switching Station with 4 outgoing feeders. New 33kV Interconnectors to strengthen existing line capacity, Upgrade, and Replacement of some existing lines on Dog conductor with higher capacity Wolf conductors, and Installation of Auto Re-closers, Load Break Switches, and line compensating devices in some selected lines.
- iv. Mwanza Region – Transmission Lines and Substation:** Upgrade of Nyakato Grid Substation by installing additional 1x60/20/40MVA, 220/132/33kV transformer, installation of 10MVAr Shunt Reactor at 33kV bus and installation of 33kV Control and Relay Panels at Nyakato Grid Substation for proposed 7 outgoing feeders and interconnectors. **Distribution Network:** Upgrade of Saba-Saba Primary Substation by adding 1x15MVA, 33/11kV transformer, Upgrade Nyakato Primary Substation by adding 2x15MVA, 33/11kV transformer, Upgrade Nyasaka Primary Substation by adding 1x15MVA, 33/11kV transformer, Upgrade of Kibara Substation by adding 2x15MVA, 66/33kV and Upgrade Makuyuni Primary Substation by adding 1x15MVA, 33/11kV transformer. Establishment of a 33kV Switching Station at Nansio with 3 outgoing feeders and a shunt reactor, Establishment of a 33kV Switching Station at Igoma with 3 outgoing feeders, and Establishment of a 33kV Switching Station at Nyatakula with 3 outgoing feeders. Construction of 7 new lines and interconnectors from Nyakato grid substation, Construction of new lines from Switching Stations, and Installation of line compensation devices on selected lines. Construction of mini-grid solar power which includes 250kWp mini solar power plant at Ukara with 150kVA standby generator, and 200kWp mini solar power plant at Maisome with 100kVA standby generator.

In Zanzibar (Pemba Island), the project involves implementation of the following scope:

- v. **Pemba Island – Last Mile Connectivity Project in Zanzibar:** Undertaking Feasibility Study, and preparation of ESIA, RAP, Designs and Bidding Documents for 10 MW solar generation plant at Micheweni and Muwambe areas that will lead to villages electrification schemes targeting connection of 70,000 customers to distribution network in 40 villages. The project will enable Pemba Island to significantly increase the number of customers (households and small industries) that will have access to affordable electricity. The project's economic benefits include increased number of connections, increased access to reliable electricity for households and businesses, improved economic development in Pemba rural areas and reduction of disparities between rural and urban areas.
3. A need for updating the existing Feasibility Study for Distribution Master Plan Study (DMPS) for Arusha, Dodoma, Mbeya, and Mwanza Regions and Project Conceptual Design for Last-Mile Connection in Zanzibar (Pemba Island) the project was prepared by Tanzania Electric Supply Company (TANESCO) and Zanzibar Electricity Corporation (ZECO) respectively for the purpose of making the project bankable for the possible financing. Towards this end, the Bank, through its Regional Power Operations Division (RDGE.1) intends to recruit a Consulting Firm to updating Feasibility Study, and preparation of ESIA and RAP, Designs and Bidding Documents and invites interested Consulting Firms to submit their Expressions of Interest (EoI).
 4. The services to be provided under the assignment include, but not limited to the following:
 - a) Review, update, and completion of the Feasibility Study prepared by TANESCO and ZECO on Distribution Master Plan Study (DMPS) for Arusha, Dodoma, Mbeya, and Mwanza Regions and Project Conceptual Design for Last-Mile Connection in Zanzibar (Pemba Island). This task shall include power system study/network analysis, conductor selection, determine project's viability by preparing economic and financial analysis, preparation of project's schedule and cost estimate, etc.
 - b) Prepare ESIA Study and RAP, prepare an Environmental and Social Management Plan (ESMP) in accordance with the African Development Bank's Environmental and Social Assessment Procedures, Integrated Environmental and Social Impacts Assessment Guidelines, particularly on power projects, and Bank's Policy on Involuntary Resettlement.
 - c) Prepare detailed design including the transmission and distribution lines profile, specifications, optimized layout and design of project components and bidding documents based on best engineering practice.
 - d) Knowledge Transfer through on-job training for a number of relevant TANESCO and ZECO staff.
 - e) Submit the updated Feasibility Study, ESIA and RAP Studies, as well as detailed Designs and Bidding Documents.
 5. The Consulting Firm is expected to work in close collaboration with relevant institutions, in particular TANESCO and ZECO during the process of review, update and preparation of the deliverables under this assignment. The language of the assignment is English.
 6. The African Development Bank, through its Regional Power Operations Division (RDGE.1) invites Consulting Firms to indicate their interest in providing the above-described

services. Interested eligible Consulting Firms or associations of Consulting Firms shall provide information on their qualifications and experience demonstrating their ability to provide the services (documentation, company profile, references for similar services, experience in comparable assignments, availability of qualified staff).

7. The eligibility criteria, the establishment of a shortlist and the selection procedure shall be in conformity with the Bank’s Procurement Policy and Procedure for Corporate Consultants Recruitment. Please, note that interest expressed by a Consulting Firm does not imply any obligation on the part of the Bank to include it in the shortlist.

8. The estimated duration of services is eight (8) months, and the starting date will be the date of signing of the service contract for this Assignment. The Firm should demonstrate the availability of sufficient qualified and experienced staff to deliver on the full scope of the assignment.

9. Interested Consulting Firms may obtain further information at the address below during office hours from 08:00 — 17:00 hours East Africa Time from Mondays to Fridays inclusive except on Public Holidays.

10. The evaluation criteria for this request of expression of interest is as follows:

Criteria	Score
General qualification and experience in the area of expertise	40
Similar experience	30
Availability of skills within the personnel of the company during the period planned for the execution of the contract.	20
Experience with MDBs and DFIs in energy/power sector	10
Total	100

11. Expressions of Interest (EoI) must be received at the address below not later than 23 September 2022, 5:00 PM, East African Time (EAT):

Attn. Mr. Mohamed Ally SAUKO

E-mail: M.SAUKO@AFDB.ORG

Copy. Mrs. Catherine MUTHAMA

E-mail: C.MUTHAMA@AFDB.ORG

AFRICAN DEVELOPMENT BANK

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Regional Power Operations Division (RDGE.1)

Regional Development and Business Delivery Office, East Africa (RDGE)