



VACANCY

NORTHERN CORRIDOR TRANSIT AND TRANSPORT COORDINATION AUTHORITY

Database Specialist for the Northern Corridor Transport Observatory

1. Overview of the Organization:

The Northern Corridor Transit and Transport Coordination Authority (NCTTCA) is a Regional Inter-Governmental Institution composed of six (06) Member States of Burundi, Democratic Republic of Congo, Kenya, Rwanda, Uganda and South Sudan.

It was established and mandated by the member states to oversee the implementation of the Northern Corridor Transit and Transport Agreement (NCTTA), to monitor its performance and transform the Northern route into an economic Development Corridor making it seamless, efficient and smart. The Northern Corridor's Permanent Secretariat is based in Mombasa in the Republic of Kenya.

The Transport Observatory is a performance-monitoring tool for assessing the efficiency of the entire logistics chain of the Trade and Transport Corridor intended to provide key reliable information to policy makers in the region and facilitate formulation of policies that lead to improved transit and trade facilitation and cooperation between the Northern Corridor Member States.

The Northern Corridor Transport Observatory work first commenced in 2003; with support from SSATP kicking-off with a baseline study before the actual implementation activities started. In May 2011, Trade Mark East Africa (TMEA) and NCTTCA signed a funding Agreement for the development of a Transport Observatory project along the Northern Corridor. In April 2018, TMEA signed a new 3 year contract with NCTTCA to extend support up to 2021.

2. Objectives of the Database Specialist Role

This assignment is expected mainly to:

- Provide technical support in the operation of the Northern Corridor Transport Observatory especially on ICT related issues.
- Provide technical support in innovation and implementation of new technologies that yield competitive advantage for the Transport Observatory activities.
- Support implementation of all identified ICT related projects for the Transport Observatory.
- Undertake data sourcing, processing and database management as a primary result area.
- support ICT system infrastructure to ensure functionality and efficiency

- Develop quality assurance and data protection processes for all transport observatory systems.
- Participate as a key player in all steering committee and similar management frameworks for the Transport Observatory work.
- Participate in the internal and regional corridor performance monitoring process to ensure improved and effective processes.
- Play a key/paramount role in the systems development process for the Transport Observatory.

3. Recipient

The Northern Corridor Transit and Transport Coordination Authority and the Trademark East Africa will be the recipient of the Database Specialist for the Observatory work.

The Database Specialist will be stationed and undertake this assignment from NCTTCA Secretariat.

4. Scope/Deliverables

In line with the set strategies for the implementation of the Transport Observatory as well as approved work plans and budgets, the successful candidate will be expected to:

- In close collaboration with NCTTCA and TMEA experts, undertake systems design, analysis and testing for all software intended to be developed for the Transport Observatory.
- Participate in the development and review of the Corridor Performance indicators for the Northern Corridor Transport Observatory as well as for regional initiatives.
- In close collaboration with other NCTTCA and TMEA experts, develop data requirement as well as keep track of changes on all identified Corridor Performance indicators.
- Work closely with other NCTTCA and TMEA experts to establish links with identified and prospective Observatory data providers as well as maintaining the existing relationships.
- Have a clear understanding and remain updated on the business processes for the various Transport Observatory stakeholders to ensure effective data processing.
- Participate in the development and implementation of Data Sharing and similar Agreements for the Observatory work.
- Initiate innovative ICT based Techniques for data sourcing, transferring and processing for the Observatory.
- Support implementation of an effective data management for all Northern Corridor Transport Observatory as well as affiliated data; using international good practices in data warehousing.
- Develop and consistently improve data processing techniques through effective scripting/querying (and other technical approaches) geared towards having appropriate Corridor Business Intelligence.
- Develop moderately complex applications for the Transport Observatory and affiliate systems to enhance the operation of monitoring framework.
- Prepare prototypes and support demonstrations of the Transport Observatory and affiliate systems as may be required.
- Work closely with NCTTCA experts in management of service providers to ensure quality service provision especially in software developed for the Observatory and affiliated systems.
- Support in administration and maintenance of all databases and portals including the main T.O Portal, Dashboard, GIS (or any other T.O portal) to ensure availability of consistently up to date information.
- Provide input in various knowledge and experience sharing fora in the region on Corridor Performance Monitoring process especially on handling of big data.
- Facilitate in the development of periodical reports (weekly, monthly, quarterly, bi-annual, annual etc.) for the Transport Observatory.

- Work closely with the partner organization(s) running the GPS, Surveys or any other data collection initiatives to ensure effective data collection process.
- Effectively participate in all procurement processes for the Transport Observatory to ensure timely delivery of the project.
- Ensure effective follow-up on all TMEA processes that affect the project especially those relating to procurement.
- Effectively participate in the Observatory's steering committee as the technical programming input to provide advice and technical software programming direction as and when required as well as the secretary ensuring all required reports are availed in time and deliberations recorded and disseminated.
- Develop periodical reports (Quarterly, Bi-annual and Annual) on the implementation status of the Observatory Work.
- Effectively participate in the development, implementation and improvement of all strategies developed for the Observatory Work.
- Facilitate the development of technical documents for the Observatory Work including Concept Papers, ToRs, and SRS among others.
- Effectively participate in planning and undertaking of seminars/workshops for the Transport Observatory and closely related work.
- Prepare presentations as/when required for the Observatory and closely related work.
- Prepare administrative documentation for NCTTCA & TMEA on the Observatory Work as may be required.
- Any other related duties assigned by the Supervisor.

5. Methodology

The Database Specialist is expected to achieve the objectives of this consultancy primarily by directly engaging in the day to day operations of the Northern Corridor Transport Observatory. This assignment will be executed by working closely with NCTTCA Experts, all Northern Corridor Transport Observatory Stakeholders and Service providers.

6. Reporting/Coordination

The Database Specialist shall be reporting to the Director of Program, Transport Policy and Planning or any other designated officer within NCTTCA.

The consultant will be expected to frequently update TMEA's Program Manager, Corridor Performance on the progress of this assignment.

In TMEA this assignment will be under the ICT for Trade and Transport Facilitation Directorate.

7. Timeframe

Period for the consultancy is expected to initially take two calendar years with the possibility of extension based on performance and availability of funds.

8. Qualifications, Skills and Competencies

The Database Specialist shall have excellent skills in the following areas:

- Extensive Web Scripting Technologies skills with particular focus on PHP, MySQL, ASP 3.0, ASP .Net, Java, JSP/Servlets and Microsoft SQL Server.
- At least 5 years of extensive experience in developing web-based, distributed, multi-user systems with bias in Regional Trade and Transport environment.
- At least 4 years of extensive experience in database development and management skills with a bias in MySQL, PostgreSQL.

- At least 3-years experience in a project management role.
- At least 3 years in data processing and analysis.
- At least a Bachelor's Degree in Computer Science, Information Technology or related field.
- Familiarity working with GIS tools and data including the use of complex databases, and specific software such as ArcGIS;
- Skills in Development and maintenance of Monitoring Systems will be an added advantage.
- Good analytical and inter-personal skills.
- Good report writing skills and an excellent command of English or French. Command of both languages will be an added advantage.

9. Language Proficiency

Proficiency in English or French language.

10. How to Apply

The applicant must submit his/her Curriculum Vitae, certified copies of Academic Certificates, testimonials and a Cover letter explaining why he/she is suitable for this position. Applicants are required to provide details of at least three referees, one of whom should be the most recent employer. Deadline for submission of applications is 28th May 2018, 05:00pm East African Standard Time.

Applications should be sent by email or hand delivered to:

Acting Executive Secretary,
Northern Corridor Transit and Transport Coordination Authority
1196 Links Road, Nyali, PO Box 34068-80118
Mombasa, Kenya.
Email: ttca@ttcanc.org
Website: www.ttcanc.org

17 May 2018

Fred TUMWEBAZE
Acting Executive Secretary