

A Data-Centric Digital Archive for Certificates of Occupancy

**TRANSFORMING LAND ADMINISTRATION THROUGH INNOVATIVE SOLUTIONS FOR
NIGER STATE GEOGRAPHIC INFORMATION SYSTEM (NIGIS) AGENCY**



October 11, 2023

TERMS OF REFERENCE (TOR) FOR THE CREATION OF A DATA-CENTRIC DIGITAL ARCHIVE OF CERTIFICATES OF OCCUPANCY WITH SEARCHABLE INDEX FOR NIGER STATE GEOGRAPHIC INFORMATION SYSTEM (NIGIS) AGENCY.

Objective:

The objective of this TOR is to outline the requirements for establishing a data-centric digital archive of Certificates of Occupancy (C of O) with a searchable index, aligning with international standards for the Niger State Geographic Information System (NIGIS) Agency. The initiative builds upon the in-house developed *Navigator 2.0* system, showcasing the agency's expertise in Land Administration, ICT, and GIS.

Navigator 2.0 Overview:

Navigator 2.0, an innovative in-house development by the NIGIS Agency, is currently in test mode with the URL nigisservices-gov.ng. This pioneering platform capitalizes on the profound expertise of the agency's staff, offering a robust foundation for land administration, data management, and GIS functionalities.

Land Profile:

Navigator 2.0 includes a comprehensive land profile feature, providing detailed information on individual land parcels within the NIGIS registry. Users can access vital data such as land size, ownership history, and current land usage, fostering a holistic understanding of each registered property.

Billing:

The platform seamlessly integrates a billing module for efficient financial transactions related to land services. Users can easily process payments for services such as land title applications, ensuring a streamlined and transparent billing process.

Subsequent Transactions:

Navigator 2.0 facilitates subsequent transactions by offering a user-friendly interface for the modification of existing land records. This includes updates to ownership details, property boundaries, and other relevant information, ensuring accurate and up-to-date land profiles.

Seamless Legal Search:

The system incorporates a powerful and seamless legal search functionality, allowing users to conduct thorough examinations of land titles and associated legal documents. This feature streamlines the process of verifying land ownership, reducing complexities in legal searches.

Document Management:

Navigator 2.0 incorporates a robust document management system, allowing for the efficient storage, retrieval, and organization of critical documents related to land transactions. This feature ensures that all relevant paperwork, from land titles to legal documents, is securely managed within the platform.

Web GIS Component:

Navigator 2.0 boasts a sophisticated Web GIS component, enabling users to visualize and analyze geographic data. This GIS functionality enhances decision-making by providing spatial insights into land patterns, topography, and infrastructure, fostering a more informed approach to land administration.

This multifaceted platform exemplifies the NIGIS Agency's commitment to modernizing land management practices, offering a user-centric experience, and leveraging advanced technologies for the benefit of stakeholders involved in the intricate landscape of land administration.

User Login for Viewers:

Username: demo@nigis.com

Password: demo12345

`Disclaimer:

The information provided through this platform is intended for demonstration purposes only. Any resemblance to real data is purely coincidental.

Cost Allocation:

The proposed cost for the development and enhancement of the system is **THREE HUNDRED AND FIFTY MILLION NAIRA (NGN 350,000,000)**. This budget will be allocated to improve the quality of the system, encompassing software upgrades, hardware enhancements, and additional manpower for seamless operation.

Cost Allocation Breakdown for Navigator 2.0 Enhancement Project

1. Software Upgrades (NGN 150,000,000):

Purpose: Enhance the functionality and performance of Navigator 2.0.

Activities:

- Procure and integrate advanced GIS software modules.
- Implement security patches and updates.
- Develop additional features for improved user experience.
- Conduct comprehensive software testing and quality assurance.
- Procurement of high resolution satellite Imagery of major towns.

2. Hardware Enhancements (NGN 100,000,000):

Purpose: Upgrade the infrastructure to support increased data storage and processing demands.

Activities:

- Acquire high-capacity servers and storage solutions.
- Implement cloud-based services for scalability.
- Enhance network infrastructure for seamless data transfer.
- Ensure redundancy and backup mechanisms to prevent data loss.

3. Manpower and Training (**NGN 70,000,000**):

Purpose: Strengthen the team and build capacity for effective system management.

Activities:

- Recruit additional IT professionals and GIS specialists.
- Conduct specialized training for staff on the upgraded system features.
- Establish a dedicated support team for system maintenance.
- Provide ongoing professional development opportunities.

4. Security Measures (**NGN 20,000,000**):

Purpose: Implement robust security measures to safeguard sensitive land data.

Activities:

- Deploy advanced cyber security tools and firewalls.
- Conduct regular security audits and vulnerability assessments.
- Establish protocols for data encryption and secure user access.
- Train staff on cyber security best practices.

5. User Support and Outreach (**NGN 10,000,000**):

Purpose: Ensure user satisfaction, promote system adoption, and gather feedback.

Activities:

- Establish a dedicated user support center for query resolution.
- Develop user guides and documentation.
- Conduct outreach programs to train users and raise awareness.
- Implement a feedback mechanism for continuous improvement.

6. Contingency Reserve (**NGN 10,000,000**):

Purpose: Address unforeseen challenges or emerging needs during project implementation.

Activities:

- Maintain a reserve fund to address unexpected costs.
- Conduct risk assessments to identify potential issues.
- Implement measures to mitigate risks and ensure project success.

This detailed cost breakdown ensures transparent and efficient utilization of the allocated **THREE HUNDRED AND FIFTY MILLION NAIRA (NGN 350,000,000)** for the Navigator 2.0 Enhancement Project, fostering a comprehensive and sustainable upgrade to the NIGIS Agency's digital archive system.

System Analysis:

NIGIS Agency has received over 9,000 land title applications from 2012 to 2022. The newly developed Navigator 2.0 system has successfully archived over 3,400 of these applications. It's important to note that the NIGIS land registry comprises of over 40,000 records. This analysis highlights the need for a comprehensive digital archive system to efficiently manage the extensive volume of land records and streamline the application process.

In conclusion, the creation of a data-centric digital archive represents a significant leap towards improving and modernizing land administration in Niger State. The Navigator 2.0 platform, with its advanced capabilities, is poised to revolutionize how land records are managed, ensuring transparency, accessibility, and adherence to international standards.

*For further inquiries or clarification, please contact NIGIS Agency
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