



# IBADAN URBAN FLOOD MANAGEMENT PROJECT

IUFMP...say no to flood!



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## Welcome to Ibadan Urban Flood Management Project

Ibadan Urban Flood Management Project (IUFMP), a World Bank assisted project, is Oyo State Government's response to the issues of flooding that the state had been experiencing.

Ibadan in recent past, experienced an increase in the prevalence of flooding. As a matter of fact, the City recorded about 16 major events in the last 50 years. The most recent was the flood of August 26, 2011, after a downpour that lasted for about 4 to 5 hours and measuring 187.5 mm (about 7.38"). This sad event caused the death of more than 120 people, as well as serious damages to infrastructure including the collapse of many bridges, the washing away of roads, and the destruction of substantial properties.

It was this event that spurred the Executive Governor of Oyo State, His Excellency, Senator Abiola Ajimobi, to seek the assistance of the World Bank in finding a lasting solution to the problems of flooding in the state. Consequently, this led to the existence of IUFMP.

Specifically, the Bank's support covers the financing of some priority investments related to improving the infrastructure of Ibadan City,

especially those destroyed by the August 2011, flood. The support will also help Ibadan reduce flood risks, improve waste collection and treatment, while developing and improving the quality of existing infrastructural assets.

**The Project Development Objective (PDO)** is to "improve the capacity of Oyo State to manage flood risk and to respond effectively and promptly to flooding in the city of Ibadan".

In terms of **Project Components**, IUFMP consists of three main components, namely:

### COMPONENT 1: FLOOD RISK IDENTIFICATION, PLANNING, AND PREPAREDNESS

The objective of this component is to assess flood risk in the city, plan

risk reduction measures, and finance preventive measures to enhance flood preparedness for flood. This component consists of the following sub-components:

Sub-component 1.1 – Ibadan's Flood Risk Management Investment Programme;

Sub-component 1.2 – Ibadan's Long Term Flood Resilience Strategy; Sub-component 1.3 – Ibadan's Flood Early Warning & Response System; Sub-component 1.4 – Contingency Component.

### COMPONENT 2: FLOOD RISK REDUCTION

The objective of this component is to ensure flood risk mitigation through structural measures by financing public infrastructure investments for flood mitigation and drainage improvements. This component consists of the following sub-components:

Sub-component 2.1 – Priority infrastructure improvement programme in Priority sites; Sub-component 2.2 – Long-Term Integrated Flood Risk Mitigation Measures.

### COMPONENT 3: PROJECT ADMINISTRATION AND MANAGEMENT SUPPORT

This component will finance incremental operational costs related to the implementation of the Project for goods, equipment, staff, travel, and Project Management Unit Consultancy Services. The sub-components are: Sub-component 3.1 – Project Administration; Sub-component 3.2 – Project Management Support.

The **direct beneficiaries** from the project are the people settled in the flood-prone areas within the 11 LGAs in the City of Ibadan.



## THE FIRST FOUR PRIORITY SITES

### - FLAG OFF EVENTS AND COMMENCEMENT OF CIVIL WORKS

The four priority sites are the first set of sites identified by the Project for the reconstruction of their damaged hydraulic infrastructure. The sites are Cele Rainbow and Ogbere Pegba (both in Oluyole LGA) and OlaAdua and Sasa Osajin (both in Iddo LGA). The specific intervention for each of the sites are:

- Cele Rainbow – Tripple Cell

Culvert

- Ogbere Pegba – 2x15 Bridge
- Ola Adua – Tripple Cell Culvert
- Saasa Osajin – Double Cell Culvert

At the various flag off events, indicating the commencement of civil works, the communities expressed their gratitude to the State Government for responding to their needs and taking the issue of flooding seriously.

Prior to the flag off events, a series of community mobilization/engagement programmes had been held with a view to creating the necessary awareness and sensitizing the people on their roles/duties from the commencement to the completion of construction activities.

#### Pictures of flag off events and handing over of sites



Cele Rainbow



Cele Rainbow



Ogbere Pegba



Ogbere Pegba



Saasa Osajin and Ola Adua



Saasa Osajin and Ola Adua

**The following pictures capture the state of the sites before the commencement of work and the present status of ongoing civil works**

**Before the commencement of work**



**Cele Rainbow**

**Status of ongoing civil works**



**Cele Rainbow**



**Ogbere Pegba**



**Ogbere Pegba**



**Ola Adua**



**Ola Adua**



**Saasa Osajin**



**Saasa Osajin**

# Eleyele Dam

Eleyele (Geographical Coordinates: 7°45'N, 3°51' E) is situated in Ibadan North-West LGA of Oyo State. The Eleyele waterworks is located at the close end of Waterworks road (the road is accessed through Eleyele roundabout on Sango-Eleyele Road). Eleyele Dam and the treatment plant are in the same vicinity and at a good distance to the settlements around the area. The Ona River on which the dam is built traverses many locations within Ibadan Metropolis and goes as far as, and beyond Apata and Omi-Adio.

The Dam is an earth dam constructed on Ona River at Eleyele in the 1940s, for supplying raw water for treatment at the Eleyele Waterworks for the city of Ibadan. The other function was to act as a flood control infrastructure, during high flow periods, through its reservoir holding capacity. However, the lake is believed to be heavily silted as a result of



urbanization and encroachment of flood plain at the upstream side of the reservoir.

There is an intake tower erected at the downstream end of the dam lake. It is from this location that raw water is abstracted and transmitted to Eleyele Treatment Plant. There are two other intakes, located upstream of the dam lake – one of them is for the University of Ibadan, while the other one belongs to a private commercial establishment.

The over-flow of the reservoir is controlled by an ungated Ogee weir spillway. The overflow is directed downstream to a concrete-lined tailrace canal which also acts as flow energy dissipater by means of a series of concrete steps.

A major contributor to the hazard potentials of Eleyele Dam is the fact that, as a result of high urban

development over the years, it is now located upstream of densely populated and highly developed areas of Ibadan City. Indeed, downstream the Ona River, land use development and construction have progressively reduced the flood plain of the River. Any failure of the Dam will therefore result in heavy loss of lives, and serious damage to homes, schools, roads, bridges, rail lines, public utilities, industries, among others.

The Dam, had been bombarded by at least two major floods in the past 30 years out of its over 70 years of existence. Consequently, flood, ageing and other factors are adjudged to be responsible for the Dam and its appurtenance works developing various forms of structural and hydraulic defects.

In view of the above, palliative works had been completed as part of the first phase of Dam Safety works. The palliative works covered the concreting for the protection of the toe of Ogee Spillway, clearing of vegetation (and removal of all felled trees and debris) in the Spillway Channel and the Scour Channel up to Ologun Eru Bridge, removal of broken concrete slabs



in the Channel, as well as 500 m clearing extension of Spillway/River Channel, downstream Ologun Eru Bridge.



The second phase is the rehabilitation of the Dam and the studies and detailed engineering design are almost completed so that the civil works can commence in due time.

# IBADAN CITY MASTERPLAN IN PICTURES

The Ibadan City Master Plan is one of the ongoing activities of IUFMP. The activity involves the mapping of the entirety of Ibadan metropolitan area to ensure coordinated physical growth, improved socio-economic development, enhanced living standards of residents as well as better service delivery that would make the city resilient to stress and responsive to natural disasters, especially flooding. The master plan is expected to capture the present situation of the city, plan for future development and expansion of the city, identify the land use and suggest future developmental actions.

As part of the execution of the assignment, IUFMP, in collaboration with the Ministry of Lands, Housing and Urban Development and the Project Consultant – Dar Al-Handassah, organised a workshop on data collection for the preparation of the plan. The aims of the workshop were to introduce the project to all stakeholders, to inform attendees of the opportunities inherent in the master plan and also utilize the gathering to collect relevant data.

Aside this workshop, other workshops, training, and brainstorming sessions had been organised with the participation of relevant stakeholders. These includes, the presentation of the Diagnostic Report, training on GIS for line MDAs and the recently concluded week-long Visioning Sessions for various stakeholders.



## Presentation of Diagnostic Report to various stakeholders.



### 1-Week GIS Training for MDAs



### Week Visioning Workshop and Sessions for Stakeholders



Visioning workshop with sub-technical committee

Visioning workshop with Local Government Areas Officials

Stakeholder Engagement with Academics

### 3-DAY RETREAT/MINI MISSION FOR THE IUFMP PIU

A 3-day retreat was organized by the World Bank for the PIU (Project Implementation Unit) in order to fast track implementation and work better as a team. The theme of the retreat was, 'Working Better, Together'. It was a highly refreshing and fulfilling programme where lots of grey areas impeding the successful implementation of the Project were ironed out with a view to fast tracking project implementation.



## ADVOCACY VISITS TO LOCAL GOVERNMENT AREAS

As part of efforts to collaborate with the Local Government Areas where the Project sites are situated, the IUFMP Social Team paid courtesy visits to the Caretaker Chairmen of Akinyele, Egbeda and Ona Ara Local Government Areas.



Visit to Akinyele Local Govt



Visit to Egbeda Local Govt



Visit to Ona Ara Local Govt

## NIGERIA HYDROLOGICAL SERVICES AGENCY

### ISSUED FLOOD ALERT TO IBADAN

The Nigeria Hydrological Services Agency (NIHSA) issued a flood alert that there was likely to be flooding in the city of Ibadan. To this end, the Oyo State Government through the Ibadan Urban Flood Management Project (IUFMP) embarked on series of activities to mitigate the impact of flooding if and when it occurs. Part of the activities embarked upon was sensitizing the citizens on the dangers inherent in dumping refuse in drainages and water channels; as these are some of the causes of flooding in Ibadan. The IUFMP in collaboration with the Ministry of Environment and Water Resources also commenced dredging of rivers and streams as these would assist in water capturing of the rivers thereby allowing for free flow of water.



Project Coordinator on Eyi Ara Programme at BCOS



PC on AM 120 on BCOS

■ Dredged Rivers & Streams



Before the Dredging Work



After the Dredging Work

**ODO ONA (TRIBUTARY AT GBEKUBA TO GADA SECTION)**



Before the Dredging Work



After the Dredging Work

**OSUN ABOLOWOJAYE RIVER**



**GOVERNOR'S INSPECTION OF DREDGED SITES**



**CLEARED DRAINS AT IWO ROAD INTERCHANGE**

# WORLD BANK MISSION IN PICTURES



**WB Country Director's visit to His Excellency, the Governor of Oyo State.**



**At Eleyele Dam**



**At Cele Rainbow**



**At Ogbere Pegba, WB Country Director engaging a community member**



Community appreciating the team



# Community Engagement Programmes

IN PICTURES



Sasa Osajin and Ola Adua communities



Cele Rainbow: Mobilization through Drama Presentation by the Social Team

# Community Engagement Programmes

IN PICTURES



IUFMP Team and Women Leaders at Ogbere Pegba



Ominrin And Olorungunwa Sites



Stakeholder Consultative Forum at Ibadan Business School



Community Engagement meeting at Ogbere Moradeyo



Community Engagement meeting at Elere and Foworogi



Community Engagement meeting at Omirin and Olorungunwa



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## IBADAN URBAN FLOOD MANAGEMENT PROJECT

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*Season's Greetings*

**IUFMP...say no to flood!**