IBADAN URBAN FLOOD MANAGEMENT PROJECT
IUFMP

# IUFMP News

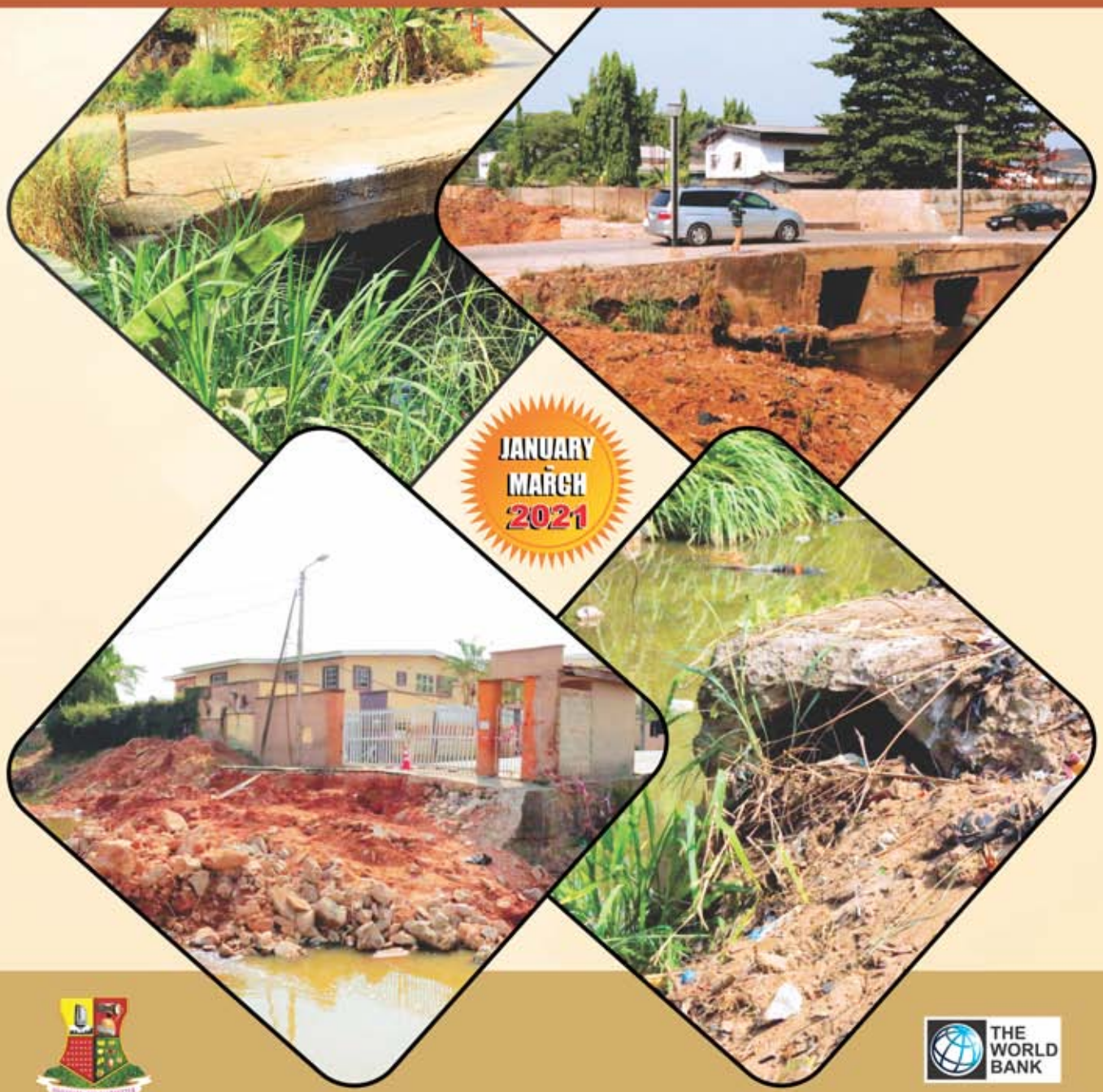
...say no to flood!

A QUARTERLY NEWSLETTER OF THE
IBADAN URBAN FLOOD MANAGEMENT PROJECT (IUFMP)

## First Pool of Works:

# 24 NEW BRIDGES;

## ENHANCED CONNECTIVITY, IMPROVED MOBILITY!




THE WORLD BANK

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EDITORIAL CREW:

IUFMR NEWS...is a quarterly publication of the IBADAN URBAN FLOOD MANAGEMENT PROJECT (IUFMP)

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IUFMP News

...say no to flood! | A QUARTERLY NEWSLETTER OF THE IBADAN URBAN FLOOD MANAGEMENT PROJECT (IUFMP)


# BRIEF ON URBAN FLOOD MANAGEMENT PROJECT

The Ibadan Urban Flood Management Project (IUFMP) was set up by the Oyo State Government, with the funding support of the World Bank, in response to the devastating flood of 26th August, 2011 which claimed about 120 lives and destroyed properties valued at tens of billions of Naira.

This initiative of the Oyo State Government was borne out of the fact that Ibadan has witnessed several disastrous flooding incidents since 1933, with successive governments engaging in measures which turned out to be more palliative than curative. It was in view of this that the IUFMP mandate was aimed at providing fundamental and far-reaching solutions to the perennial and incessant flooding that has become characteristic of Ibadan.

With its broad-based Project Development Objectives couched as ***"to improve the capacity of Oyo State to effectively manage flood risk in the city of Ibadan,"*** the IUFMP mandate covers primarily, reconstruction of hydraulic devices (bridges, culverts, etc) that were destroyed by the 2011 flood incident, as well as a number of related issues which impact adversely on the predisposition of Ibadan to flooding. Such issues include the need to design a workable Solid Waste Management Masterplan, the imperative of a Flood Risk Management and Drainage Masterplan, and the essentiality of a comprehensive Ibadan City Masterplan. Also embedded in the Project design is a Flood Forecast and Early Warning System which is meant to make available to the residents the requisite resources to have prior awareness of possible flooding disasters and take the necessary precautionary measures. All of these are geared towards relieving Ibadan of the menace of incessant flooding and upgrading the city to its deserved status of a 21st Century mega city.

Therein lies the mandate of the IUFMP; and it is gratifying that the task is already being faithfully accomplished.

# FROM THE PROJECT COORDINATOR'S Desk

It is my pleasure to present this new edition of IUFMP News to all the stakeholders of Ibadan Urban Flood Management Project (IUFMP) and readers of the quarterly publication. For me particularly, it is a momentous occasion, as it is the first edition I will be signing off in my new capacity as the Acting Project Coordinator of IUFMP.

Keen followers of IUFMP are most likely aware of recent dislocating rumours and unfounded reports about the Project as peddled, rather uncharitably, by a few online media platforms. It is gratifying, however, that the dust has finally settled and whatever was the agenda of the ill-motivated campaign has been dispelled. The Project remains on course, as the Oyo State Government is focused on delivering its mandate to the letter.

It is in line with the foregoing that this edition of IUFMP News takes a closer look at the over twenty (20) new hydraulic structures that are springing forth as a positive complement to the channelization of major rivers in Ibadan, as part of the First Pool of Works. The x-raying of these hydraulic structures is done by presenting the baseline status of each of the crossing structures, with pictorial indication of their look and feel. This is with a view to alerting all our stakeholders, especially the community beneficiaries, to the big relief that will soon come their way as these interventions get underway.

Also reported in this edition was the brief but eventful visit of a delegation of the Federal Ministry of Finance, Budget & National Planning to some work sites of IUFMP's, as part of the Federal Government's inspectorial oversight of donor-funded projects in Oyo State. Suffice it to say here that the Project got more than a pass mark from the visiting team on all outlined parameters.

Yet another major milestone achieved within the first quarter of the year, which is copiously covered in this edition, was the successful hosting of the much awaited Operations and Maintenance (O & M) Training on the newly rehabilitated Eleyele Dam. Facilitated by Messrs. Tractebel Engie, the firm of supervising consultants on the dam rehabilitation, the training was the last-mile capacity-building forum for operators of the dam drawn from Ministry of Environment & Natural Resources and Water Corporation of Oyo State, aimed at enabling them to operate and maintain the newly installed gadgets without hitches.

Having given you, our dear readers and stakeholders, a foretaste of this loaded edition of IUFMP News, I urge you to turn the pages and enjoy every bit of the bumper package.

**Engr. J. Olasunkanmi Sokeye**
**Ag. Project Coordinator**

# Fed. Min. of Finance, Budget & National Planning Tours IUFMP, Other Oyo Projects' Sites

Mr. Henry Adeyi (pointing), Team Leader of the delegation from Fed. Ministry of Finance, Budget & National Planning, making a comment at one of the sites visited

A 5-man delegation of the Federal Ministry of Finance, Budget & National Planning paid an inspection visit to Oyo State in the second week of January 2021, to monitor and assess the progression of all Donor-Assisted Projects in the State. Ibadan Urban Flood Management Project (IUFMP), a World Bank-assisted flood risk mitigation project, was one of the projects so inspected.

As outlined in the Ministry's correspondence to the Oyo State Government on the visit, the objectives of the exercise were to:

i. ensure the development objectives of the Donor-Assisted Projects are being achieved;
ii. carry out a review of the implementation progress of the components under the projects;
iii. review projects disbursement level;
iv. identify bottlenecks/challenges hindering the smooth implementation of the projects; and
v. provide support/solution to the PIUs on the effective coordination of project implementation.

For IUFMP, the visit took the inspection team to a number of the project's work sites ranging from completed to ongoing ones. For the completed 4 Priority Sites, Ola Adua Culvert and adjoining roads located at Apete in Ido LGA was the port of call; while the duo of Alaro Poly Bridge along Sango –

Eleyele Road and Believers Bridge at Odo Ona Elewe were the visited sites among the 13 Priority Sites. Also inspected was the newly renovated Eleyele Dam. On the final lap, the inspection team visited the Ogbere Tioya area for an on-the-spot assessment of the ongoing channelization works of rivers in Ibadan under the First Pool of Long-term Investments.

While commenting after the inspection, leader of the delegation, Mr. Henry Adeyi, who is a Deputy Director in the Federal Ministry of Finance, Budget & National Planning, commended IUFMP for the work done so far. He specifically applauded the quality and timeliness of the work done which, according to him, had great potentials to reduce the impact of flooding in Ibadan. He was optimistic that by the completion of the First and Second Pools of intervention works, the longstanding menace of flooding in Ibadan would have been largely mitigated. The team leader also charged the Project Implementation Unit (PIU) of IUFMP to ensure that no effort was spared towards achieving effective and timely execution of the remaining interventions.

Representing IUFMP on the inspection tour were PIU members from Engineering, Monitoring & Evaluation, and Communication Units.

Other Donor-Assisted Projects monitored in the State included: Urban Water Supply & Sanitation Improvement Project; Accelerating Nutrition Results in Nigeria; States Fiscal Transparency, Accountability and Sustainability Programme for Results; Saving One Million Lives (SOML); Program-for-Results (PforR); Nigeria Erosion and Watershed Management Project (NEWMAP); Community and Social Development Project (CSDP); and Better Education Service Delivery for All (BESDA).

Mr. Henry Adeyi, Leader of Fed. Ministry of Finance, Budget & National Planning delegation, flanked by one of his team members and some PIU members, at one of the sites visited

COVER STORY

# First Pool of Works:
# 24 NEW BRIDGES: ENHANCED CONNECTIVITY, IMPROVED MOBILITY!

In the course of its over six years of operation, the Ibadan Urban Flood Management Project (IUFMP) has come to be known and perceived as a bridge-building project. This is symbolic in two major ways: the functional perception of the project as reconstructing damaged bridges and culverts, and the emotional perspective of IUFMP helping to reconnect communities which had hitherto been cut off from each other due to flood-ravaged bridges, culverts and other such links. Both perceptions are, however, complementary and complimentary, to the extent that they both spell development to the people of Ibadan and Oyo State in general.

The immediate past quarterly edition of IUFMP NEWS focused on the Pool of Works which we aptly tagged "the Big Ones." However, the narrative centered largely on the channelization works, especially at the Lots 1 and 2 sites, while citing in passing the crossing structures (bridges and culverts) to be constructed as part of the new interventions. But these aspects of the works certainly deserve more than a mere mention, because of the sheer number of crossing structures to be done and the transformation that will be brought to bear on the existing ones.

For the First Pool of Works alone, a total of twenty-four (24) crossing structures of different sizes, scopes and designs have been billed for reconstruction at different areas of the Ibadan Metropolis. These 24 bridges and culverts, aside from serving as flood-control infrastructure in their areas of location, would greatly aid inter-community linkage, thus helping to boost the socio-economic prospects of the city.

What is the baseline status of the existing culverts and bridges pre-intervention? How is the current state of the existing structures to be replaced affecting the host communities in terms of flooding, mobility and other social indices? These questions will be answered in greater details as we take a closer look at the existing hydraulic devices across the communities. The essence of this is to facilitate the assessment of project outcomes by the Oyo State Government, the World Bank, the PIU and other critical stakeholders of IUFMP when the ongoing interventions are completed.

## Agodi River Channel

A total of four (4) associated crossing/hydraulic structures are to be reconstructed along the 2.3km-long channelization works to be done on the river. These are:

I. **ID No 40**: The existing structure which situates at Francis Okediji Street had earlier been washed away by flood torrents, thus cutting off linkage between that part of Old Bodija and the adjoining communities. The damaged culvert will be replaced with a **2(6.0 x 2.5) m culvert**.

*The collapsed Francis Okediji culvert at Old Bodija Area pre-intervention*

ii. **ID No 41**: This is the tunnel-like structure that channels the Agodi River across Oduduwa Street (by BON Hotel) at Old Bodija. Though the culvert was still standing before construction, the inlet and outlet were evidently too narrow and inadequate for the runoff of the river, thus causing backflow and flooding, especially during periods of heavy downpours. It will be replaced with a **2(6.0 x 2.5) m culvert**.

*Baseline status of the Agodi Channel Culvert at Oduduwa Street (by BON Hotel) Old Bodija Area pre-intervention*

*The demolished culvert at Layi Osunkunle Street Old Bodija Area before reconstruction work started*

iii. **ID No 42**: This is the hydraulic device across Agodi River on Layi Osunkunle Street, by Davis Hotel, Old Bodija. Though the structure was still standing before demolition, it had evidently become inadequate for the discharge/volume of runoff, thus causing surrounding houses and vegetation to be flooded. The inadequate structure is to be replaced with a **2(6.0 x 2.5)m culvert**.

iv. **ID No 627**: This is the culvert that spans the Agodi River at the popular Ladoke Akintola Street, New Bodija. The dimensions of the existing culvert would be too inadequate for the ongoing channelization of the Agodi River, hence the proposed replacement with a **2(4.0 x 2.5)m culvert**.

*Baseline State of Ladoke Akintola Culvert new Bodija pre-intervention*

## Kudeti River Channel

Two new hydraulic structures are to be constructed along the 2.50km-long channelization works:

v. **ID No 273**: This structure is to replace the weak, old and degraded culvert across the Labo/Oranyan/Bere Road, by BOVAS Filling Station, which has over the years exposed the area to massive flooding and tragic eventualities. The proposed replacement is an **(8.0 x 2.5)m culvert**.

*Baseline State of the Culvert at Labo-Oranyan, Kudeti Area pre-intervention) 2*

*Baseline State of the location for Crossing Hydraulic Structure & Footbridge across Kudeti River at Labo-Oranyan Area (pre-intervention)*

vi. **Kudeti Footbridges 1 & 2**: The footbridges are intended to provide intra-community access/passage to residents of Labo, Oranyan and environs whose community is traversed by the heavy-flowing Kudeti River. This intervention will be complemented by landscaping works on the river banks, which is aimed at transforming the area from a slum.

## Orogun River Channel

This channel of 2.30km length has 6 new hydraulic structures to be constructed:

**ID No 565**: This culvert, located around the Army Barracks off Ojoo Road, has been rendered almost redundant with the road it spans somewhat impassable. A **2(4.0 x 2.0)m culvert** is in the works, as a replacement.

*Baseline State of the Culvert at Army Barracks Ojoo Road (pre-intervention)*

**viii. ID No 678**: This is the access culvert into Kajorepo Community, off Ojoo – Iwo Road. The culvert has become too low and narrow to effectively discharge runoff, thus resulting in overtopping of the culvert and flooding of houses. The culvert is being replaced with a **2(6.0 x 2.0)m** new hydraulic structure.

*Baseline State of the Culvert at Kajorepo Inside Area on Orogun River pre-intervention*

*Baseline State of the Culvert at Kajorepo Entrance on Orogun River by Ojoo - Iwo Road Expressway pre-intervention*

**ix. ID No 677**: This culvert channels the Orogun River from Kajorepo Community across the Iwo Road – Ojoo Expressway. Though the existing hydraulic structure is still structurally adequate, it has become hydraulically inadequate for the volume of runoffs from the downstream of Orogun River. Thus, a **2(6.0 x 2.0)m culvert** is in the works to complement the existing one.

**x. ID No 634**: The Project is executing here an associated crossing structure of **3(5.0 x 2.0)m** over the Orogun River at the Kajola Compound area. Pre-intervention, what existed there was a fabricated metal crossing, which is unstable and insecure for human movement.

*Baseline State of the Associated Pedestrian Bridge along Orogun River channel at Kajola Compound pre-intervention*

*Baseline State of Orogun Culvert by GOFAMINT Church pre-intervention*

xi. **ID No 633**: The existing culvert across the Orogun River at the GOFAMINT Church area is being replaced with a **3(6.0 x 2.0)m culvert** in order to ensure that the increased runoff from the channelized river would have a smooth flow.

xii. **ID No 122B**: This culvert that spans the UI – Ojoo Highway on the Orogun River is presently hydraulically inadequate and in disrepair, causing backflow of the river runoff. In anticipation of the channelization of the Orogun River, the culvert will be replaced with **a 5(6.0 x 2.0)m culvert**.

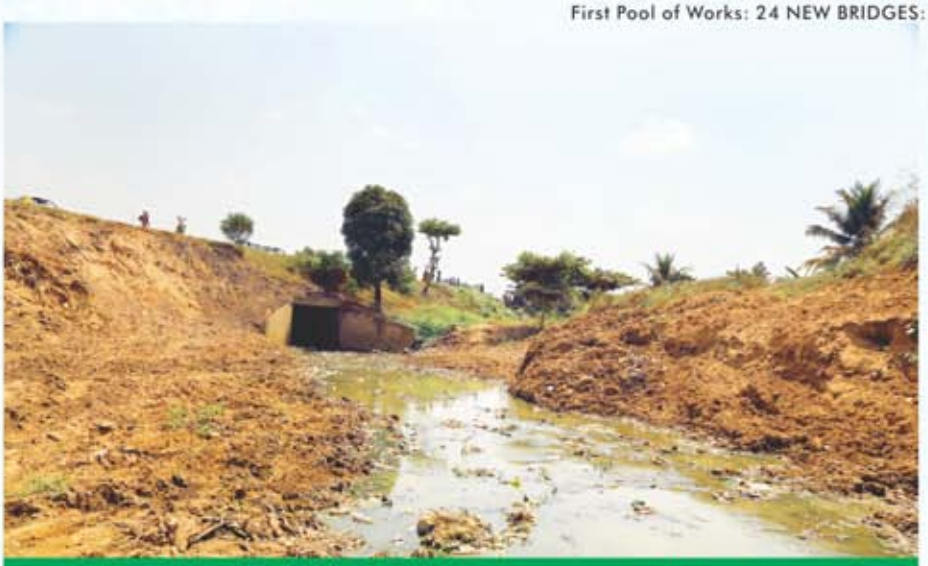
*Baseline State of the Culvert on Orogun River along UI - Ojoo Road pre-intervention*

*Baseline State of the Culvert on Ogbere River at Akinwumi Street pre-intervention*

## Ogbere North River Channel

The channel is 6.90km-long with five new hydraulic crossing structures to be constructed:

xiii. **ID No G5**: The existing 2-cell Box Culvert spans the Ogbere River at the Akinwumi/Odewenwa Street axis near Iwo Road Interchange. With the ongoing channelization of the river, the culvert will become too low and inadequate for the discharge/volume of runoff from downstream; hence its proposed replacement with a **2(6.0 x 2.5)m culvert**.



*Baseline State of the Culvert on Ogbere River at Onipepeye across Ibadan-Lagos Expressway pre-intervention*

xiv. **ID No 86**: This hydraulic device is further down on the Ogbere River channel at the Onipepeye axis, crisscrossing the Ibadan – Lagos Expressway. The single cell culvert, though structurally okay, will become hydraulically inadequate for the channelized river; which is why it will be complemented with a **2(6.0 x 2.5)m culvert**.

xv. **ID No 305**: This yet another culvert on a tributary shedding into the Ogbere River crosses the Ibadan – Lagos Expressway at the Mufu Laninhun area. It has obviously become too narrow and inadequate for the volume of flow passing through, thus causing backflow into the communities upstream. It will be replaced with a **1(3.5 x 2.0)m culvert**.

*Baseline State of the Culvert on Ogbere River at Mufu Laninhun across Ibadan-Lagos Expressway pre-intervention*

*Baseline State of the Culvert on Ogbere River at Seriki - Adeyalo (ID No 74) pre-intervention*

xvi. **ID No 74**: This is a 3-cell culvert on the Ogbere River linking the Seriki / Adeyalo areas of Ibadan. Though structurally adequate, the existing culvert would not be hydraulically adequate for the channelized river when completed. Hence, a single span of **1(4.0 x 3.0)m culvert** is being added to complement the standing structure.

## Ogbere South River Channel

The total length of river to be channelized at Ogbere South river channel is 4.5km with only one new culvert to be constructed.

*Baseline State of the Ogbere Tioya Culvert pre-intervention*

xvii. **ID No 73**: This is the popular **Ogbere Tioya** Culvert on the Olorunsogo – Amuloko – Akanran Road. Being downstream of the river, the flow of the Ogbere River here is known to be heavy and torrential, which results in over-flooding and cutting off of human/vehicular movement. The existing structure is to be replaced with a **4(6.0 x 3.0)m culvert**.

**Separate Structures**: These are hydraulic devices that are not directly on the rivers being channelized but have been identified for construction or reconstruction to mitigate flood risk in the areas they are situated. They are seven (7) in number.

*Baseline State of the Oorelope Culvert at Oluyole Zartech Area pre-intervention*

xviii. **ID No 23**: This culvert connects the Oorelope Community of Oluyole Estate in Ibadan. In its pre-intervention state, the culvert is too low, causing it to easily get overtopped during heavy rainfalls, resulting in the community being cut off from the rest of the city. It is being replaced with a **8(6 x 2.25)m culvert**.

xix. **ID No 76**: This is the culvert on Ariyo River along Olorunsogo–Amuloko –Akanran Road. The size of the culvert has become inadequate for the discharge/volume of runoff in the catchment area; so it is being replaced with a **6(6 x 2.5)m culvert**.

*Baseline State of the Olorunsogo - Amuloko-Akanran Road Culvert (pre-intervention)*

*Baseline State of the Culvert at Jerusalem Area, Arulogun - Ojoo Road pre-intervention*

xx. **ID No 125A**: This culvert is at the Jerusalem Area along Ojoo – Arulogun Road, Akinyele LGA. The 2-cell pipe culvert is in disrepair, with evidence of failed portions. It will be replaced with a **2(6 x 2.0)m culvert**.

xxi. **ID No 132**: This is the culvert on Abepe Stream along Apete – Awotan Road, Ibadan. It is evidently too low and the headroom is inadequate to channel the runoff from the river course during heavy downpours. It is being replaced with a **1(4 x 2)m culvert**.

*Baseline State of the Apete - Awotan - Akufo Road Area Culvert (pre-intervention)*

*Baseline State of Odogbo Fatokun Culvert, Moniya pre-intervention*

xxii. **ID No 195**: This culvert situates at the Odogbo Fatokun area of Moniya in Akinyele LGA. Though the device is structurally adequate consequent on a recent intervention, its inlet and outlet are inadequate, resulting in the areas being heavily flooded during high precipitation. In its place, a **1(3.5 x 1.5)m culvert** is to be constructed.

xxiii. **ID No 27T**: The existing structure is a 2-cell Pipe Culvert across the Ibadan – Ife Expressway close to the Iwo Road Interchange. It has become visibly inadequate, thus causing backflow upstream which results in flooding and waterlogging of the surroundings of both the inlet and the outlet. In lieu, a **(3.0 x 2.0)m culvert** is being constructed.

*Baseline State of Iwo Road Interchange Culvert along Ibadan-Ife Expressway pre-intervention*

*Baseline State of the Inlet of the Ajibode - NISER Area Culvert (pre-intervention)*

xxvi. **ID No 6T**: This is a 2-cell pipe culvert on Ajibode Road, NISER area, Ibadan. The rings have evidently become too narrow to channel runoff from upstream across the road to the downstream, which often resulted in over-flooding in the area. The aged culvert is being replaced with a **1(4 x 2)m culvert**.

# IUFMP Hosts Eleyele Dam O & M Training

Engr. Stephane Gsell, Tractebel Chief Resident Engineer, demonstrating to participants how to operate the Intake Tower gadgets

The Ibadan Urban Flood Management Project (IUFMP) has hosted the mandatory Operations and Maintenance (O & M) Training on the newly rehabilitated Eleyele Dam in line with international best practice for dam management and operations.

The training, which was a key deliverable of the supervising consultant's firm on the dam rehabilitation works, Messrs. Tractebel Engie, was necessitated by the need to enable the operators of the dam to get familiar with normal/routine operations of the various equipment, in order to ensure the safety of the dam and its appurtenances, and help guard against any risk of failure, especially dam breaks.

The 3-day session, which ran between 3rd and 5th February, 2021, was facilitated by the Chief Resident Engineer (CRE) of Tractebel, Engr. Stephane Gsell, while participants were drawn from Oyo State Ministry of Environment & Natural Resources, Water Corporation of Oyo State as well as relevant members of the Project Implementation Unit (PIU) of IUFMP.

It would be recalled that the Oyo State Government, through IUFMP, had embarked on a first-of-its-kind rehabilitation of the Eleyele Dam, which was originally constructed as an earth dam in 1942. Prior to the rehabilitation works, most of the dam's appurtenances were already ageing and fast deteriorating.

The executed refurbishment works on the dam have boosted its safety index to international standards. New structures with appropriate capacities have been built, new monitoring equipment installed and have become operational. Nevertheless, maintaining this safety level will require the stakeholders to pursue their efforts by executing a sustained monitoring and surveillance of the dam scheme; hence the O & M Training.

The scope of the training included the operation rules, monitoring and surveillance activities required on the new Eleyele Dam scheme to maintain its safety standard, among others. Participants were sensitized on the highlights and imperative of both preventive and corrective maintenance of the gadgets and monitoring equipment.

According to the training facilitator, the preventive maintenance is to be performed as and when due, as most corrective actions are impossible during critical times. These include regular vegetation control, deposit clearing, and servicing/testing of hydro-mechanical equipment.

The corrective actions are to be taken to remedy identified defects during regular inspections. The facilitator underscored the importance of taking necessary corrective actions in a timely manner, as no actions may be possible if and when unfortunate events occur.

As part of the practical sessions, participants took turns to operate the newly installed and functional gadgets and equipment under the watchful supervision of the facilitator, Engr. Gsell.

A participant operating one of the gadgets at the rehabilitated Eleyele Dam as part of the O & M Training

# CAREFREE ATTITUDE TO REFUSE DISPOSAL IS DISASTROUS


# Make Ibadan Clean

## LET'S JOIN HANDS TO STOP FLOODING IN IBADAN !!!

**IBADAN URBAN FLOOD MANAGEMENT PROJECT (IUFMP)**

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