



# IUFMP News

*...say no to flood!*

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

## AT IUFMP, A HARVEST OF **DELIVERED ASSETS**



APRIL  
JUNE  
2020





# From the PROJECT COORDINATOR'S Desk

**T**his quarter's edition of **IUFMP News** presents us a platform to showcase the many bumper harvests of deliveries of the Ibadan Urban Flood Management Project (IUFMP) which crystalize within the period.

Among other landmark events, we were privileged to host the No 1 Citizen of Oyo State, the Executive Governor of our dear State, His Excellency Engr. Seyi Makinde FNSE, at the official commissioning of the newly rehabilitated Eleyele Dam and Intake Tower complex. This happened on Friday 29th May, 2020, which symbolically, was the very first anniversary date of the Governor Seyi Makinde administration in Oyo State. To say it was a grand outing would be an understatement, as His Excellency was much impressed with the quality and timeliness of, as well as the local inputs into, the massive rehabilitation works.

Also in the streak of momentous achievements is the advancement of the 13 Priority Sites to the range of over 90% completion for both Lots 1 and 2. The significance of this is underscored by the fact that residents of the communities where these interventions are situated have already started heaving a sigh of relief from possible flooding, in view of the fact that construction work has been completed on eleven (11) of the sites, while work on the remaining two (2) have reached an advanced stage of

completion.

While some works being implemented under IUFMP are reaching completion stage, some major new ones are taking off. Chief on this list are the interventions collectively dubbed the **Pool of Long Term Investments Works for Flood Risk Mitigation**, which have been packaged into four (4) lots. Lots 1 and 2 of this are presently being kick-started, while processing of Lots 3 and 4 by all relevant technical stakeholders is ongoing. Thus, the proposed channelization of major rivers and streams that crisscross the landscape of Ibadan will be starting in earnest anytime from now. For emphasis, the rivers are **Orogun, Ogbere, Kudeti, Agodi and Ona**, each with pre-identified cross structures (bridges and culverts) to be constructed.

The icing on the cake is the approval of the State Government to embark on dredging of thirty-two (32) rivers and streams across Ibadan Metropolis as part of the palliatives to prevent flash flooding in and around the city. The competitively selected Contractors have since commenced work, in compliance with the global best practice for such assignments as espoused in the Bid Documents and carefully cascaded to the operatives by the PIU experts. Yet another event worthy of mention is the training on Online Geospatial Visualization Platform, as part of the initiatives to boost the

implementation of the strategic masterplans developed under IUFMP, especially the Ibadan City Masterplan and the Drainage Masterplan. This, essentially, drew participants from the PIU and relevant Ministries, Departments and Agencies (MDAs) among which are Ministry of Lands, Housing & Urban Development; Ministry of Environment & Natural Resources; Ministry of Works, Transport & Public Infrastructure; Surveyor-General's Office; Oyo State Emergency Management Agency (OYSEMA); Bureau of Statistics; and the ICT Unit of the Governor's Office. This session, which happened in the twilight of the second quarter, was facilitated by the World Bank, and is in line with the capacity-building mandate of IUFMP for operatives of the relevant MDAs in the Oyo State Civil Service in order to enhance the long-term sustainability of the Project's gains.

The foregoing is a foretaste of the rich menu served in this edition of **IUFMP News**, which I warmly commend to all stakeholders of the Project.



**TPL DAYO AYORINDE**  
Executive Secretary/Project Coordinator,  
IUFMP

# AT IUFMP, A HARVEST OF DELIVERED ASSETS!

This year, 2020, presents a major milestone for the Ibadan Urban Flood Management Project (IUFMP). This is largely so because some of the intervention works under the Project earlier farmed out to Contractors and Supervising Consultants were billed for completion and commissioning in the year. So, in spite of the restrictions and constrictions imposed by the sudden outbreak of the Coronavirus global pandemic, the Project Implementation Unit (PIU) and other stakeholders in the execution chain fired on all cylinders to ensure the lofty goals were realized.

Top on the list of the works is the **Eleyele Dam and Intake Tower Rehabilitation project**. The contract was awarded to Messrs. CGC-CHWE Joint Ventures, a Chinese firm, in June 2018, while Messrs. Tractebel Engineering, a French concern in partnership with a Nigerian engineering firm, SGI Consulting, won the Supervising Consultancy brief. The rehabilitation works on the now 78-year-old dam was billed to be executed in 24 months.

It may be recalled that the overtopping of the Eleyele Dam by flooding was one of the immediate causes of the disastrous flood disaster that befell Ibadan on 26th August, 2011. Much of the casualties and property losses recorded in the flooding happened in the communities downstream of the dam.

Yet another bunch of major deliverables is what is called the **13 Priority Sites** in IUFMP parlance. Encased in this are 13 sites of hydraulic devices (bridges and culverts) destroyed by the aforementioned flood event of 2011. So massive was the degree of damage to these devices that some were totally cut off, thus truncating commuting between residents on either side of the bridge or culvert. For most, if not all, of them, the damaged structures exposed the communities to the vagaries of unhindered flooding, with attendant danger to lives and property. Only an urgent fixing of the structures was the needed elixir to the pains and pangs of the populace, and that was what the IUFMP intervention provided.

Specifications of works done at the 13 Priority Sites included not only bridges and culverts but also long stretches of approach and adjoining roads in the locale of intervention, as well as drain

lines on both sides of the reconstructed roads, as outlined in the engineering designs.

A visit to any of the 13 Priority Sites would reveal the engineering masterpieces that they are! The damaged structures were not merely rebuilt but redesigned to make them more capacious and capable based on the identified flood patterns in their respective locales. The solidity of the structures, the well-asphalted network of approach and adjoining roads, and the strong drain lines channeling flood water runoff into the river courses, all bespeak of quality, functionality and aesthetics combined.

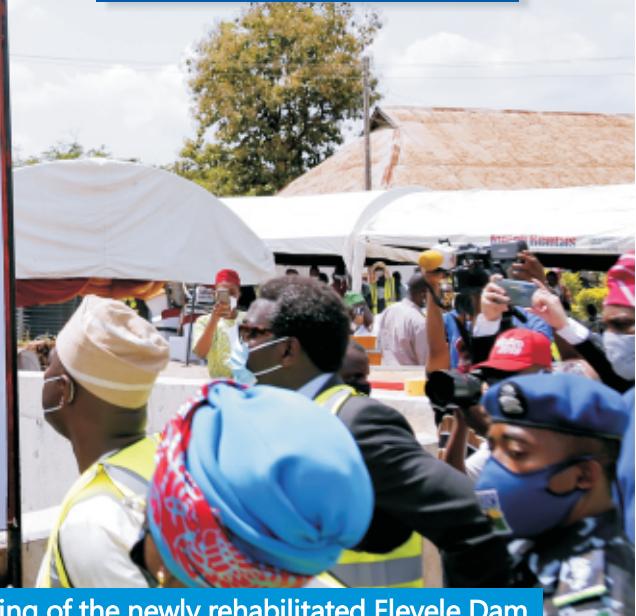
It is therefore a big harvest that all these assets and structures are coming to fruition within this period, timely enough to provide the needed relief for residents of Ibadan Metropolis who over the years had always dreaded the approach of the rainy season. The realization of these massive infrastructural investments in flood control assets would, no doubt, yield much dividends in terms of peace of mind, safety of lives and property, and economic gains to people who hitherto were at the mercy of destructive flooding at particular periods in years past.

While the gains in the area of environmental transformation are easy to see, the multiplier benefits in the area of economic empowerment are being anticipated. Markets are bound to spring up, value of real estate property will appreciate, new businesses will emerge, and so forth. These benefits easily point up the sustainable development goals inherent in the Project Development Objective (PDO) of IUFMP, which is ***"to improve the capacity of Oyo State to effectively manage flood risk in the city of Ibadan."***





## ELEYELE DAM NOW WEARS A NEW LOOK!



Gov. Seyi Makinde and members of his Cabinet inspecting the making of the newly rehabilitated Eleyele Dam

**E**leyele Dam was constructed as an earth dam in 1942 by what was then called Public Works Department (PWD) of the Colonial Administration. The dam is on Ona River, a river that traverses the city of Ibadan, and it was built for the dual purposes of supplying potable water to residents of Ibadan and environs, as well as for flood control during high flow period, to safeguard lives and property downstream of the dam.

Over the years, the dam had become heavily silted as a result of urbanization and encroachment of the flood plain at the upstream side of the reservoir, while a good many of the structures and installations had become worn out owing to ageing and lack of turnaround maintenance.

In its about 78 years of existence, this rehabilitation implemented by IUFMP is the first major intervention the dam has undergone. It is instructive to note that the overtopping of the dam during the flood event of 26th August, 2011 was one of the major factors for the huge casualties and massive losses recorded, because much of the fatalities took place downstream of Eleyele Dam.

The rehabilitation contract was awarded to Messrs. CGC-CHWE JV (a Chinese company) while the consultancy services for the design and supervision of the rehabilitation work was awarded to Tractebel Engineering S.A. of France, with a Nigerian engineering firm, SGI Consulting, as partners.

### Pre-Rehabilitation State of Eleyele Dam

Given that the dam has been in existence for over

70 years, most of its facilities/components had outlived their lifespan leaving the dam and its appurtenances in a precarious state. For instance:

- The capacity of the existing Spillway Channel was insufficient to contain the flood during heavy downpours, coupled with the fact that part of it had broken.
- The emergency safety valve on the scour was not operational, making it difficult to dislodge around the Intake Tower and release water as fast as possible whenever there was a need to do so.
- Hydro-mechanical installations (i.e. valves and pipe network) and the platforms in the Intake Tower as well as other metallic structures had been seriously infested by corrosion.
- The river channel from the downstream of the dam to Ologun-Eru Bridge was narrower and could also not contain flood, and thus overflooding of the banks during heavy rainfall was a common occurrence.
- There were leakages in the Scour Tunnel.
- There were no installed safety and dam monitoring devices.

### Details of Intervention Areas on the Rehabilitation Works

- **Dam Embankment Crest:** Raised from the previous height of 183.6m to 185.4m (1.8m higher).

- Erection of 1.0m high concrete Parapet Wall on the embankment to prevent waves from overtopping the embankment.
- Increase in the discharge capacity of the Spillway from the 367.9m<sup>3</sup>/s to 1269m<sup>3</sup>/s.
- Increase in the width of the Spillway Channel to enhance its discharge capacity.
- Rehabilitation of the Intake Tower in order to fully restore its capacity to supply raw water from the reservoir to the treatment plant.
- Replacement of all hydro-mechanical equipment (pipes and valves) inside the Intake Tower.
- Rehabilitation of the Scour Tunnel so that it can freely discharge water through the Scour Channel back to the Spillway Return Channel.
- Reshaping and protecting of the river course down to Ologun-Eru Bridge.
- Improvement of the access road within the Waterworks premises.
- Slope improvement and raising the Dam Embankment by 1.8m (i.e. from Elevation 183.60m to Elevation 185.40m)
- Reshaping and protecting of the river course down to Ologun-Eru Bridge.
- Installation of new monitoring equipment. The completed works will, however, go through 1 year of defect liability period.

### **Permanent Works**

Under this rehabilitation project, the under listed works were classified as permanent works:

#### **Specific Details of Rehabilitation Works Done**

All deficiencies facing the dam have been cleared in 3-form solutions as listed below:

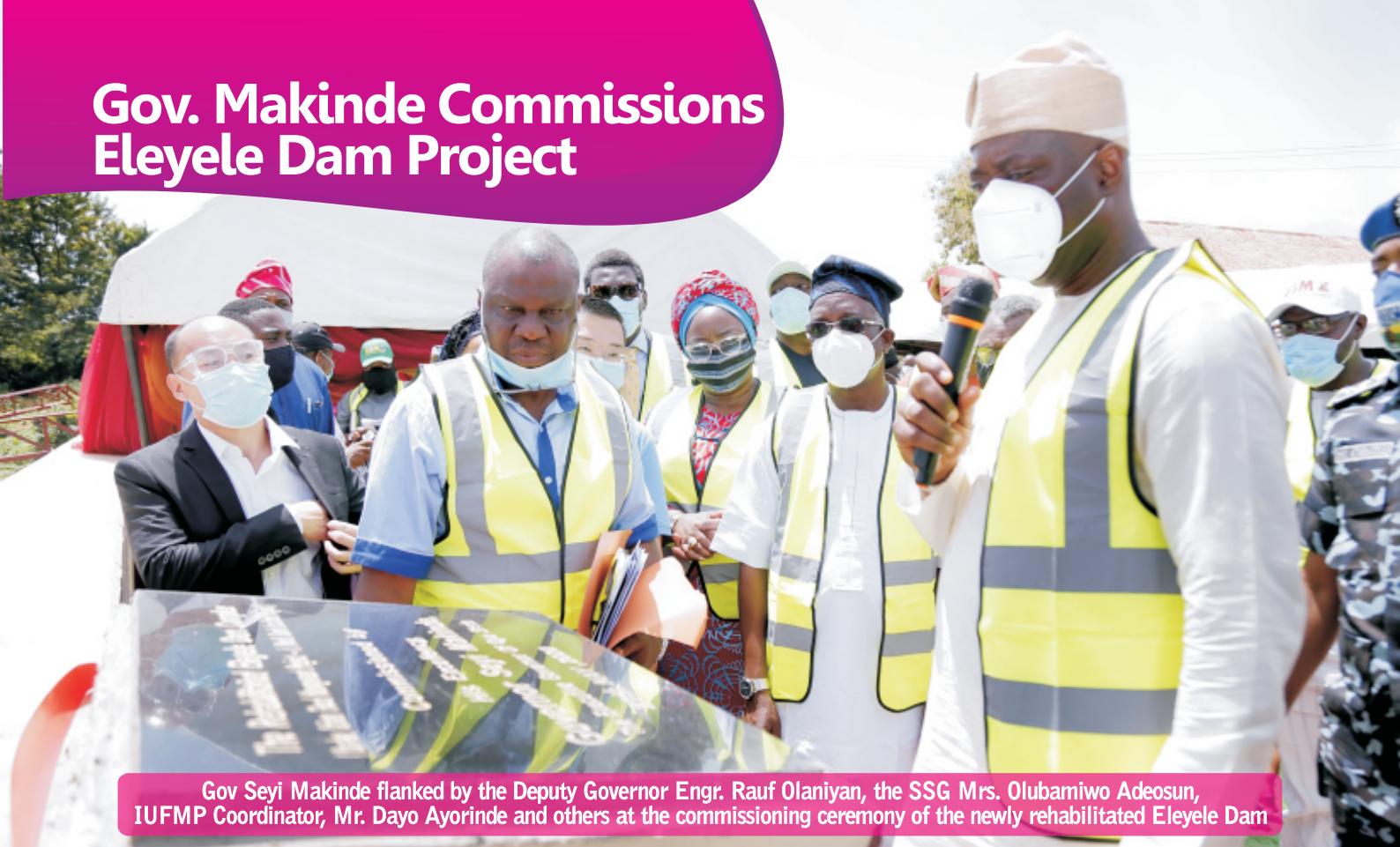
- I. Structural Solution:** Repaired and strengthened all structural defects/deformation as well as face-lifted all structures (whether concrete or steel).
- II. Hydraulic Solution:** Increased the capacity of the Spillway and River channels to contain the 10,000-year return flood of 1269m<sup>3</sup>/s
- III. Safety Solution:** Equipped the dam with adequate safety/monitoring devices.

#### **The Scope of Work can be summarized as follows:**

- i. Reconstruction of the Ogee Concrete Weir with improved profile.
- ii. Reconstruction and widening of the Spillway Channel, and upgrading of the side walls up to the confluence of Spillway and Scour Channel.
- iii. Checking of the integrity of the Intake Tower structure, improvement of the existing concrete finishing, vertical extension of the concrete structure by 1.8m and replacement of its Hydro-mechanical equipment.
- iv. Checking of the integrity of the Scour Tunnel structure, strengthening of the existing concrete, horizontal extension of the Tunnel, construction of a new valve chamber, installation of a new valve and replacement of the Ø600mm Scour Pipe and the Ø450mm raw water pipe
- v. Intake Tower:
  - Upgrading and elevating of the concrete structure.
  - Construction of Top Concrete Shed and lifting device.
  - Replacement of platforms and Access Ladder.
  - Replacement of existing HM installations.
- vi. Scour Channel:
  - Upgrading and extension of the Structure.
  - Construction of new Valve Chamber, in replacement of platforms and Access Ladder.
  - Replacement of existing HM installations and installation of new Gate Valves (GVs) in the new Valve Chamber.
- vii. Expansion and Protection of Ona River Bank Channel up to Ologun-Eru Bridge.
- viii. D/s Shore Protection of Existing Properties.
- ix. Footbridges:
  - Reconstruction of steel Access Footbridge to the Intake Tower.
  - Reconstruction of Pedestrian Footbridge overcrossing the Spillway Channel.
- x. Dam Monitoring:
  - Installation of monitoring/safety devices

The rehabilitated ultramodern Eleyele Dam was commissioned on Friday 29th May, 2020 by the Executive Governor of Oyo State, His Excellency, Engr. Seyi Makinde as part of the activities marking his administration's first anniversary in office.

# Gov. Makinde Commissions Eleyele Dam Project



Gov Seyi Makinde flanked by the Deputy Governor Engr. Rauf Olaniyan, the SSG Mrs. Olubamiwo Adeosun, IUFMP Coordinator, Mr. Dayo Ayorinde and others at the commissioning ceremony of the newly rehabilitated Eleyele Dam

Oyo State Governor, Engr. Seyi Makinde, has commissioned the newly-rehabilitated Eleyele Dam project, which he noted would greatly help in the bid to put an end to perennial flood disaster in Ibadan.

The Governor added that the project would also help to boost supply of potable water to Eleyele neighbourhood and other communities in the state capital.

While delivering his Keynote Address at the commissioning event which was held in strict compliance with the COVID-19 protocols, the Governor identified the project as one of the many investments in flood control assets being implemented under the Ibadan Urban Flood Management Project (IUFMP), with funding and technical support from the World Bank.

In his word: *"The last time I had the chance to meet formally with the management of IUFMP and representatives of the World Bank was in November 2019. They were having a mid-term*

*review at that particular time. On that occasion, I had a chance to stress why we chose to continue supporting this project."*

The Governor reiterated the reasons for his administration's support for the IUFMP as a courageous move to checkmate perennial flooding in Ibadan. He said, *"During my electioneering, I told people that for us, continuity in government is sacrosanct. I said that we would look at projects started by the previous administration, which are beneficial to the people of Oyo State and that are well-structured. So, this is one example of such projects and I am glad that we provided our full support."*

He added that as the dam was commissioned, there were still quite a lot to do, among which are the channelization of major rivers in the State, all geared towards ensuring that the State Government would not have to be issuing advisories whenever it was about to rain.

Engr. Makinde appreciated the

contractor and major consultants on the project, noting that with the supervision of the project carried out by a French company and its Nigerian partners, some Nigerian engineers had been given major opportunity to get exposure on the assignment.

He charged residents of Eleyele and other neighbourhoods of the dam to avoid indiscriminate and improper dumping of refuse, which could block the river channel, noting that the long-term sustainability of huge investments on infrastructural renewal like the dam project depends on communal and individual efforts.

Earlier, the Coordinator of Ibadan Urban Flood Management Project, Mr. Dayo Ayorinde had given a highlight on the implementation course of the Eleyele Dam rehabilitation works which, according to him, started some two years earlier. He appreciated the Governor for his administration's unflinching support to IUFMP in its mandate of managing flood risks in Ibadan.

# Photo Speak



Gov. Seyi Makinde and others inspecting one of the facilities of the Newly Rehabilitated Eleyele Dam

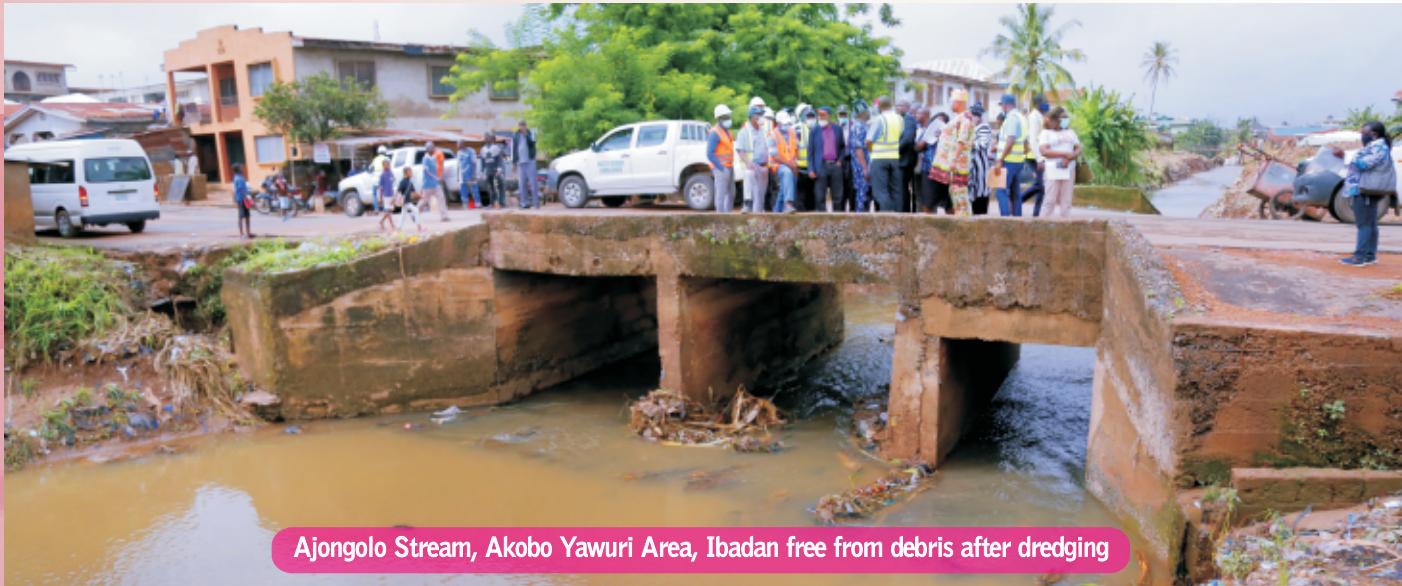


Gov Seyi Makinde, with members of his Cabinet, inspecting the rehabilitated Intake Tower of the Eleyele Dam Complex

# Photo Speak



# Photo Speak



# MASSIVE FLOOD INFRASTRUCTURE AT IUFMP 13 PRIORITY SITES

The 13 Priority Sites of Flood Control Infrastructure are the second set of sites identified for reconstruction by the Ibadan Urban Flood Management Project (IUFMP). The first set was made up of the 4 Priority Sites situated at Ogbere-Pegba, Cele-Rainbow, Shasha-Osajin and Ola Adua (the first 2 in Oluyole LGA and the latter duo in Ido LGA).

**The 13 Priority Sites are made up of the following, with the specifications of each site indicated:**

S/N	Site Name	Type of Hydraulic Structure	Length of Approach Road (Meters)	Length of Adjoining Road (Meters)
1.	<b>Alaro Poly</b> , Ibadan North LGA.	1-Span Bridge @ 10m Double Carriage	<b>700m</b>	<b>500m</b>
2.	<b>Alaro 7-Up</b> , Ibadan South-West LGA	1-Span Bridge @ 15m	<b>890m</b>	<b>450m</b>
3.	<b>Ogbere-Moradeyo</b> , Egbeda LGA	1-Span Bridge @ 15m	<b>950m</b>	<b>225m</b>
4.	<b>Ebenezeri</b> , Egbeda LGA	1-Span Bridge @ 15m	<b>1,840m</b>	<b>1,350m</b>
5.	<b>Foworogi</b> , Oluyole LGA	1-Span Bridge @ 15m	<b>1,400m</b>	<b>1,050m</b>
6.	<b>Abonde-Ogbere</b> Ona-Ara / Oluyole LGA	1-Span Bridge @ 15m	<b>682m</b>	<b>525m</b>
7.	<b>Believers Stream</b> , Oluyole LGA	5-Span Bridge @ 15m	<b>2,025m</b>	<b>600m</b>
8.	<b>Maje</b> , Oluyole LGA	3-Cell Culvert (3m x 3.5m)	<b>900m</b>	<b>600m</b>
9.	<b>Omirlin</b> , Egbeda LGA	3-Cell Culvert (3m x 3.5m) 1-Cell Culvert (3m x 3.5m) 2-Cell Culvert (2.5m x 2m)	<b>820m</b>	<b>450m</b>
10.	<b>Isokun</b> , Akinyele LGA	2-Cell Culvert (3m x 3.5m)	<b>900m</b>	<b>700m</b>
11.	<b>Olorungunwa</b> , Egbeda LGA	<b>2 Nos</b> of 1-Cell Culvert (3m x 3.5m) <b>2 Nos</b> of 1-Cell Culvert (2.5m x 2.5m)	<b>700m</b>	<b>600m</b>
12.	<b>Oki Oke-Ayo</b> , Egbeda LGA	1-Cell Culvert (3m x 3.5m)	<b>950m</b>	<b>300m</b>
13.	<b>Elere</b> , Oluyole LGA	1-Cell Culvert (3m x 3.5m)	<b>750m</b>	<b>600m</b>
<b>TOTAL LENGTHS</b>			<b>13,507m</b>	<b>7,950m</b>

The sites were identified for reconstruction consequent on their being massively damaged or washed off by the devastating Ibadan flood disaster of 26th August, 2011 which recorded about 120 fatalities and property destruction valued at over 30Billion Naira.

The reconstruction contract was awarded in July 2018 and scheduled for completion in April 2020. However, owing to a 3-month Stop Work Order in

May 2019 on account of the need to rejig the environmental and social safeguards compliance of the work sites, an extension of the implementation period was inevitable. As at Monday 22nd June, 2020, implementation was at 93% and 95% for Lot 1 and Lot 2 respectively.

Among other benefits, the implementation of the 13 Priority Sites has raised the status of the affected areas beyond emergency response to

# MASSIVE FLOOD INFRASTRUCTURE AT IUFMP 13 PRIORITY SITES

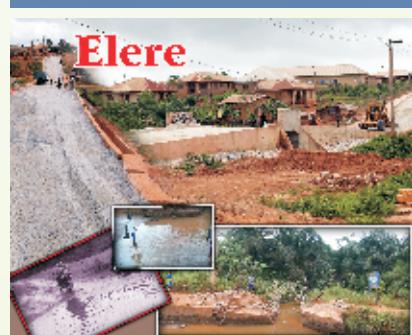
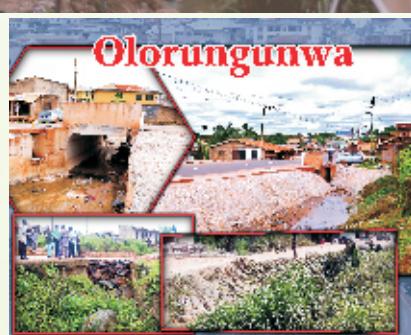
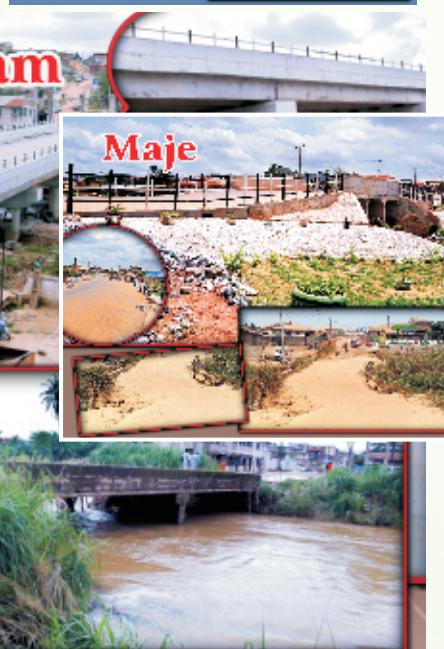
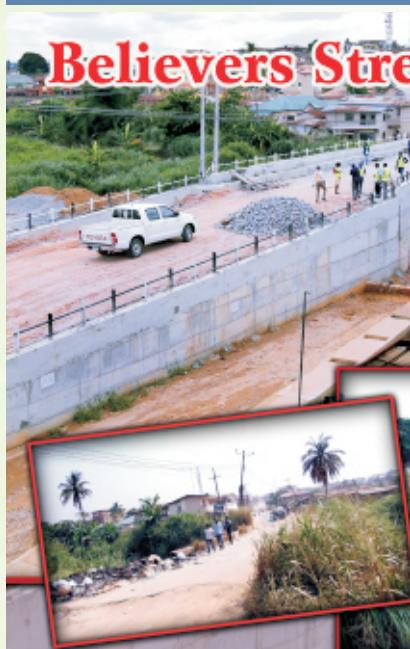
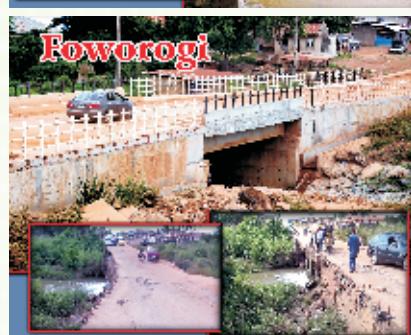
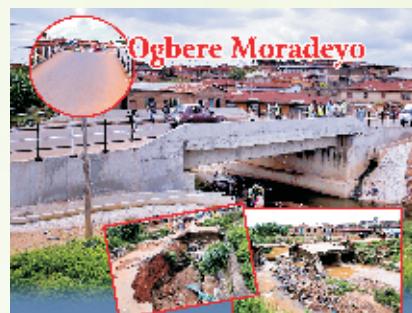
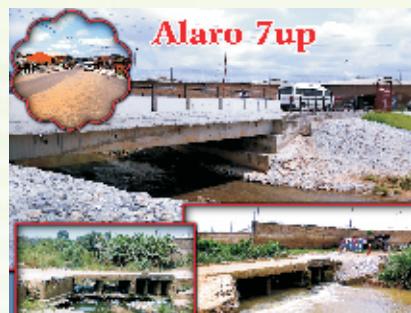
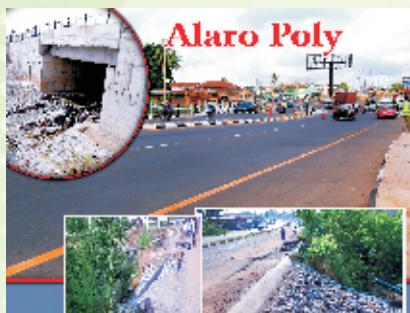
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urban resilience and environmental transformation.

In compliance with the World Bank stakeholders' engagement framework which stipulates engaging project beneficiaries before, during and after interventions, the various stakeholders of the projects are being actively engaged, to foster buy-in, ownership and long-

term sustainability.

Even ahead of the full completion of the works, commendations have started pouring in from residents of the affected communities for the Oyo State Government for the huge investments, and to IUFMP for a job well done.



# APPRECIATION LETTER ON FOWOROGI BRIDGE AND ELERE CULVERT



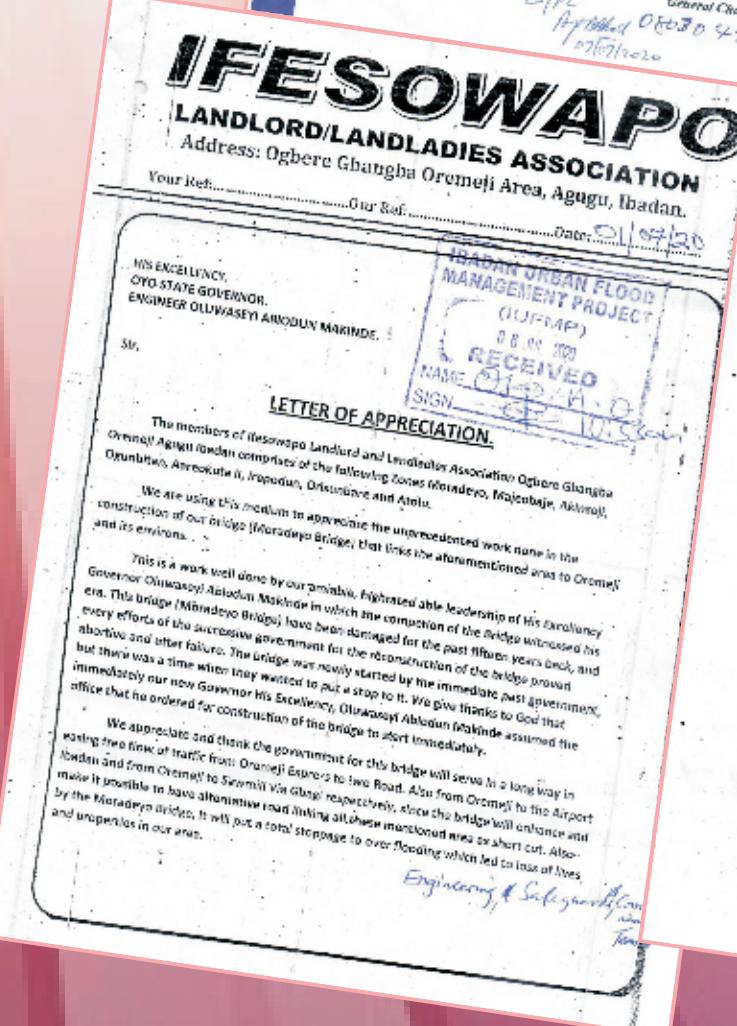
# APPRECIATION LETTER ON OGBERE MORADEYO BRIDGE

We appreciate and thank all sectors of Government ranging from Federal, State and Local Government Ibadan Urban Flood Management Project and the World Bank Assisted Flood Management Board, and those who in one way or the other contributed to the completion of the bridge. Thanks and God Bless.

*Chief S. A. Fakayode*  
Chairman  
Copy to: THE DIRECTOR, IBADAN URBAN FLOOD MANAGEMENT PROJECT (IUFMP), THE CHAIRMAN, EGbede LOCAL GOVERNMENT, IBADAN,

The above for your information Sirs.

*U. A. F. A. Fakayode*  
General Secretary



# Again, IUFMP Dredges Rivers and Streams in Ibadan

**A**s part of the Non-Structural measures to mitigate flood risk in Ibadan, the Ibadan Urban Flood Management Project (IUFMP), acting on the approval of the Oyo State Government, has embarked on dredging of major riversstreams and desilting of drains across the

Ibadan Metropolis.

The dredged locations were identified and proposed by the Oyo State Ministry of Environment & Natural Resources consequent upon its regular surveillance of water channels within the State as well as complaints received from neighbourhoods for such

interventions.

For the year 2020 exercise, a total of 32 rivers, streams and drains were covered, with a total length of 60,150 meters. The assignment, which is at an advanced stage of completion, was grouped into 3 Lots as detailed below:

## LOT 1

S/N	DESCRIPTION	LENGTH (Meters)
1.	Dredging of Olorunsogo Estate, Stream, Ibadan	1500
2.	Dredging of Odeku Stream, Bota Area, Oluyole, Ibadan	2000
3.	Dredging of Oloro Stream Tributary, Olode, Adegbayi, Ibadan	750
4.	Dredging of Odo-Osun Stream, Ashipa, Oluyole, Ibadan	2000
5.	Dredging of Idi-Osan Stream, Kumapai, Ibadan	2500
6.	Dredging of Fatosi Stream, Olomi, Olunde Area, Ibadan	1500
7.	Dredging of Isokan Stream, Oluwo, Ibadan	2000
8.	Dredging of Okewusi Stream, Oluwo-Nla Area, Adegbayi, Ibadan.	2000
9.	Dredging of Yokele - Pekun Stream, Oluyole	500
10.	Dredging of Bethel Estate Stream, Bode Igbo Area, Abeokuta Road	2500
<b>TOTAL</b>		<b>17,250</b>

## LOT 2

S/N	DESCRIPTION	LENGTH (Meters)
1.	Dredging of Ajidun River, New Ife Road, Ibadan	2100
2.	Dredging of Farayola Stream, Bodija, (Major Salawu Street) Ibadan	2100
3.	Dredging of Alapata Stream, Shasha, Moniya Area, Ibadan	1500
4.	Dredging of Ajogonlo Stream, Akobo/Yawuri Area, Ibadan	2300
5.	Dredging of Bashorun Stream, Bode Wasimi Area, Ibadan	1500
6.	Clearing of blocked drain along Bashorun-Bode Wasini Road, Ibadan	1200
7.	Clearing of blocked drain along NIHORT - Ile Titun Road, Ibadan	2000
8.	Clearing of blocked drain along NIHORT - Pekun Road, Ibadan	2500
9.	Dredging of Orukanga Stream, Apatupu, Elewuro Road, Akobo, Ibadan.	1500
10.	Dredging of Farinto Stream, Kute Area, Ibadan.	2500
11.	Dredging of Adukanle Stream, Agbofieti area, Gbekuba NIHORT Ibadan.	3000
12.	Dredging of Gbaro Ajimosun Stream, Lagelu	2000
<b>TOTAL</b>		<b>24,200</b>

## LOT 3

S/N	DESCRIPTION	LENGTH (Meters)
1.	Dredging of Moga Stream, Olunloyo, Ibadan	1500
2.	Dredging of Alawaye Stream, Olorunsogo Area, Ibadan	1000
3.	Dredging of shalom Stream, Idi-Ishin, ile-titun Area, Ibadan	2000
4.	Dredging of Adeniran Stream, Gbaremu, Gangansi Area, Ibadan	2200
5.	Dredging of Alaguntan Stream, Ologuneru-Eleyele road, Ibadan	2500
6.	Dredging of Ifesowapo Stream, Babanla, Oremeji Area, Ibadan	1500
7.	Dredging of Dalegan River, Iyana Agbala, Adegbayi, Ibadan	3000
8.	Dredging of Idi-Agbon Stream, Laogun, Old Ife Road, Ibadan	1500
9.	Dredging of Olami Stream, Fatusi Area, Olunde, Ibadan.	1500
10.	Dredging of Olope Woroko Stream, behind Ibadan Grammar School Molete	2000
<b>TOTAL</b>		<b>18,700</b>

# STATISTICAL DETAILS ON IMPACT OF IBADAN URBAN FLOOD MANAGEMENT PROJECT ON LIVELIHOODS AT THE 17 PRIORITY SITES AND ELEYELE DAM

4+13 PRIORITY INTERVENTIONS					
S/N	Location	Easting	Northing	No of Buildings Saved from Flooding	No of Beneficiaries Protected
1	Shasha-Osajin	824440.7	596893.2	1,390	8,340
2	Ola-Adua	824035.3	597070.6		
3	Cele Rainbow	809605	594300.8	2,720	16,320
4	Believer RC Bridge	810991	594832		
5	Ogbere-Pegba	811290.8	603584.1	2,427	14,562
6	Foworogi Bridge	810436.6	604359.7		
7	Elere Culvert	809665	604960.8		
8	Ebenezeri RC Bridge	818945	608136	1,589	9,534
9	Omirin RC Culvert	815220	609999	1,409	8,454
10	Olorungunwa Culvert	815202	609999		
11	Oke-Ayo Tuntun Culvert	819583	610924	1,641	9,846
12	Alaro 7Up RC Bridge	812916	593379	807	4,842
13	Ogbere-Moradeyo Bridge	816052.4	603410.8	2,041	12,246
14	Ogbere-Abonde Bridge	813433.5	600620	4,387	26,322
15	Isokun-Ojoo Culvert	814142.7	602028.9		
16	Maje Culvert	808782.7	598455.2	867	5,202
17	Alaro Poly Bridge	821001.7	597748.7	1,198	7,188
Total				20,476	122,856

**Source:** Analysis derived using Ibadan Integrated Flood Risk and Drainage Masterplan 2018 Report

## BENEFICIARIES OF ELEYELE DAM

S/N	Dam Inundation Area (DIA), Km <sup>2</sup>	Built-up area under DIA, Km <sup>2</sup>	Ibadan City Population Density (population/Km <sup>2</sup> )	Beneficiaries Protected
1	15.66	3.77	1,913	7212

**Source:** Eleyele Dam Safety Report, 2016



# **DON'T DUMP REFUSE AT UNAUTHORIZED PLACES THE RAINS ARE HERE**

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

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

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