



FEDERAL MINISTRY OF WATER RESOURCES



2020

ANNUAL REPORT

PREFACE

The year 2020 Annual Report gives a brief account of the major activities and achievements of the Ministry, its agencies and parastatals in 2020.

The Report, in essence, is an attempt to put on record laudable projects and programmes executed by the Ministry, cutting across water supply, water quality and sanitation, irrigation, dam development and hydropower, capacity development and international cooperation, hydrology and hydrogeology, climate change and flood management, amongst others.

The Report, which is sub-divided into six (6) chapters, deals essentially with policy framework and integrated plan as well as the notable achievements posted by the Ministry including its parastatals such as the twelve (12) River Basin Development Authorities (RDDAs), National Water Resources Institute (NWRI), Nigeria Hydrological Services Agency (NIHSA) and Nigeria Integrated Water Resources Management Commission (NIWRMC).

The Report is highly recommended to all researchers, water experts and the general public. It is our hope that you will find the information contained herein satisfactory, useful and purposeful.

The Ministry welcomes useful contributions from stakeholders to further improve on the quality of the publication and therefore its utility to all users.

Mrs. Didi Walson-Jack, mni

Permanent Secretary
Federal Ministry of Water Resources.

FOREWARD

Water resources development is a key growth driver in the national economy and its pivotal role is intricately linked to other critical sectors such as agriculture, rural development, tourism, industrial production, hydropower generation, transportation, aquaculture and environment. This multisector benefits accruing to the water sector underscore the high priority that the present administration accorded to the sustainable water resources development and management as the fulcrum for poverty eradication and job creation.

The activities of the water sector during the period under focus was affected by the novel COVID-19 pandemic. To ensure that the programmes of the Ministry was not adversely affected, it became necessary by the Ministry to adjust its plan in response to the new culture engendered by the pandemic and charted a course towards attaining its vision of improving access to potable water for all Nigerians.

Further, the Ministry had initiated a programme to combat its impact in accordance with the protocol of ensuring availability of water supply, sanitation and hygiene facilities as a part of the Federal Government intervention on COVID-19.

The Ministry also carried out awareness campaign on the rules of WASH in curtailing COVID-19; inauguration on 16th April, 2020 of the National WASH Committee on Response to COVID-19 with the Honourable Minister of Water Resources as the chairman and all State Commissioners responsible for water resources development as members; developed a National Guideline for WASH Sector Response to COVID-19 in collaboration with some Development Partners and shared to all 36 states and FCT, implementation of National WASH response to COVID-19 as contained in the National Economic Sustainability Plan (NESP) and construction of WASH facilities across the nation.

Also, the Ministry's efforts at improving sanitation resulted in the aggressive national campaign against open defecation- **"Clean Nigeria: Use the toilet"**. The first year anniversary of this campaign was marked on the 27th November, 2020. Construction of over 30 sanitation facilities were undertaken and 38 LGAs are now certified as Open Defecation Free (ODF). There is also strong collaboration with the State Governments, the Private Sector and other stakeholders to end Open defecation.

The Ministry has during the period continued the implementation of WASH Action Plan launched by Mr. President in 2018 to revitalize the sector as well as the Executive Order 009 to give effect to the campaign. The Action Plan encapsulates a 13-year revitalization strategy with the central aspiration of **"Ensuring access to water and sanitation for all"**- by the year 2030 through a renewed Federal-States Partnership

towards credible pursuit of the SDGs and to ensure that the Federal Government effectively guides, supports and incentivizes state investments and their reform efforts.

It is important to mention that a significant progress was recorded in irrigation development in year 2020 by addition of more hectares of land towards achieving sustainable food production and by so doing contributed to the national effort in alleviating poverty and hunger. Also, there are over 400 dams (small, medium, and large) at present which store about 48 Billion Cubic metres of water, owned and operated by the Federal, State Government, universities, private and individuals, spread across the country, which are being utilized for irrigation, water supply, hydropower, aquaculture, flood control, amongst others.

In conclusion, therefore, I must say that the giant strides recorded by the Ministry and its agencies in the year 2020 under my watch was the result of hard work, dedication, commitment and team work approach to service delivery.

Engr. Suleiman H. Adamu, *FNSE, FAEng.*

Honourable Minister
Federal Ministry of Water Resources.

CHAPTER 1

1.0 Introduction

- 1.1 Nigeria is blessed with abundant water resources. The country is drained mainly by Rivers Niger and Benue and numerous tributaries. The total surface and ground water resources is estimated at above 250 billion cubic meters representing about 1,800 m³ /capita/year of total renewable water resources, which is well above 1,000 m³ /capita/year typically used to define water scarcity. Nigeria is NOT a water poor country. There is enough water resource for domestic, industrial, agricultural, hydropower, transportation and recreational use.
- 1.2 In this regard, the place of water as a critical element to human livelihoods and central to the achievement of the seventeen (17) Sustainable Development Goals (SDGs) accounted for high premium which the Ministry received in the year 2020. This, in return, accounted for the increase in the level of activities and the fast pace of service delivery in the sector.

1.2 Mandate of the Ministry

The Ministry's mandate is to formulate and implement policies, projects and programmes that will enable sustainable access to safe and sufficient water to meet the social, cultural and economic development needs of all Nigerians, for all uses, in ways that contribute to enhancing public health, food security, eradicating poverty while maintaining the integrity of freshwater ecosystem of the nation. The Ministry's responsibilities within the mandate are as follows:

- i. Formulate and review National Water Resources Policy and Legislation;
- ii. Formulate and implement a Master Plan for the overall development of the water resources of the country in a systematic, integrated and coordinated manner;
- iii. Explore, develop and manage surface and underground water resources through construction of Dams, Barrages, Dykes and other Hydraulic structures for flood control, water supply, hydro-power generation, and other purposes;
- iv. Develop Irrigation Infrastructure to support food production for enhanced national food security;

- v. Collect, store, analyze and disseminate hydro-meteorological, water quality and hydrological data and information;
- vi. Support and promote Studies and Research on the nation's Underground and Surface Water Resources potential;
- vii. Promote integrated approach to Water Resources Management;
- viii. Promote high level advocacy for Water Sanitation and Hygiene;
- ix. Collaboration and cooperation with all relevant National, Regional and International Agencies on all matters relating to water resources development including transboundary water management; and
- x. Support, monitor and evaluate the programmes and performances of the Ministry's Agencies and Parastatals.

1.3 **Vision Statement**

To provide sustainable access to safe and sufficient water for cultural, social and economic development needs of the nation.

1.4 **Mission Statement**

To be the vehicle of Nigeria's Integrated Water Resources management and development contributing optimally to the socio-economic activities of the nation.

1.5 **Policy and Regulatory Framework**

The overall sector's development is being guided by three pillars:

- i. National Water Resources Master Plan;
- ii. Immediate and Long-Term Strategies for the Water Sector (2016-2030) also known as the Water Sector Roadmaps; and
- iii. The Sustainable Development Goals (Goals 6).

1.5.2 **Other policy and regulatory documents include:**

- i. Water Resources Decree 101 of 1993 (Now Water Resources Act CAP W2 LFN 2004)
- ii. National Water Supply & Sanitation Policy, 2000;
- iii. Nigerian Standard for Drinking Water Quality, 2007;
- iv. Nigeria Hydrological Services Agency (NIHSA) Act, 2010;

- v. River Basin Development Authority Decree 25 of 1976 as amended;
- vi. National Water Resources Master Plan 2013;
- vii. Nigeria Integrated Water Resources Management Commission Act;
- viii. National Water Resources Institute Act 1985, Cap N83 (2004);
- ix. National Water Resources Policy, 2016;
- x. National Irrigation & Drainage Policy, 2016.
- xi. Making Nigeria Open Defecation Free 2025 Roadmap (2018)

1.6 **Organizational Structure**

The Ministry Organizational Structure consists of six (6) Technical Departments, seven (7) Service Departments, ten (10) Service Units and fifteen (15) Agencies and Parastatals including 12 Nos. River Basin Development Authorities as follows:

1.6.1 **Technical Departments**

- i. Department of Dams & Reservoir Operations
- ii. Department of Irrigation & drainage
- iii. Department of River Basin Operations & Inspectorate
- iv. Department of Water Quality Control & Sanitation
- v. Department of Water Resources Planning & Technical Support Services
- vi. Department of Water Supply

1.6.2 **Service Departments**

- i. Department of Human Resources Management
- ii. Department of Finance & Accounts
- iii. Procurement Department
- iv. General Services Department
- v. Reform Coordination and Service Improvement Department
- vi. Internal Audit Department
- vii. Special Duties Department

1.6.3 **Service Units**

- i. Legal Unit
- ii. Press & Public Relations Unit
- iii. Anti-Corruption and Transparency Monitoring Unit
- iv. Gender and Human Right Unit
- v. Climate Change Unit
- vi. Stock Verification Unit
- vii. Public Private Partnership Unit
- viii. SurveyUnit
- ix. National Assembly Liaison
- x. SERVICOM

1.6.4 **Agencies**

- i. National Water Resources Institute
- ii. Nigeria Hydrological Services Agency
- iii. Nigeria Integrated Water Resources Management Commission.

1.6.5 **Parastatals**

- i. Anambra Imo River Basin Development Authority
- ii. Benin Owena River Basin Development Authority
- iii. Chad Basin Development Authority
- iv. Cross River Basin Development Authority
- v. Hadejia-Jama'are River Basin Development Authority
- vi. Lower Benue River Basin Development Authority
- vii. Lower Niger River Basin Development Authority
- viii. Niger Delta Basin Development Authority
- ix. Ogun Osun River Basin Development Authority
- x. Sokoto Rima River Basin Development Authority
- xi. Upper Benue River Basin Development Authority
- xii. Upper Niger River Basin Development Authority

CHAPTER 2

2.0 DEPARTMENTS

2.1 THE HUMAN RESOURCE MANAGEMENT DEPARTMENT

2.1.1 Introduction:

The Human Resource Management Department is one of the core common Service Departments in the Federal Ministry of Water Resources responsible for the following core functions, namely, Staffing, Development, Compensation, Safety and Health, Employment and labour Relations. Within each of these core functions, the Department conducts wide variety of activities geared towards the well-being of the staff. These include: -

- i. Ensuring the right staff-mix of the Ministry;
- ii. Managing the career progression of the staff;
- iii. Training and re-training of staff towards updating knowledge so as to enhance their job performance;
- iv. Maintaining effective relationship with the other Department towards appropriate provision of benefits;
- v. Coordinating and providing prompt attention to staff welfare issues;
- vi. Ensuring timely discharge of disciplinary cases;
- vii. Supporting the staff capacity building;
- viii. Providing oversight function as observers on Appointment, Promotion and Discipline;
- ix. Serving as the secretariat for the Ministry's Management Committees;
- x. Liaison with Federal Civil Service Commission (FCSC), Office of the Head of Civil Services of the Federation (OHCSF) and Office of the Accountant-General of the Federation (OAGF), etc on matters that affect the Ministry's personnel.

2.1.2 Structure

The Department is headed by a Director who is in charge of its day to day activities. The Department is divided into two (2) Divisions i.e. Appointment, Promotion and Discipline (APD) as well as the Staff Welfare and Training Divisions and each division is headed by a Deputy Director. Under these two (2) divisions, there are four Assistant Directors in charge of various Sections; namely Promotion, Appointment and Discipline, Training, Staff Welfare and Chiefs in charge of the following Units; Integrated Personnel Payroll Information System (IPPIS), Pension, Records Office, Open Registry and Secret Registry.

2.1.3 **Staff Strength**

The Department has a total number of One Hundred and Seven (107) during the period under focus.

2.1.4 **Achievements recorded by the Department in 2020**

- i. Engagement of two hundred and thirty (230) NYSC for the year 2019/2020.
- ii. facilitated the enrolment and biometric capturing of over three hundred and fifty (350) officers of the Ministry from 2012 till 2020.
- iii. shortlisted and forwarded the list of One Hundred and Eighty-Five (185) officers to Finance and Accountant Department of the Ministry for onward transmission to the Budget office of the Federation for payment of salary arrears from 2014 till 2020.
- iv. forwarded completed 2020 salary emoluments and PAYE Data forms of one thousand and eighty-four (1084) officers to the Office of the Accountant-General of the Federation as requested.
- v. A total number of 65 retired officers from the Ministry have been paid their National Housing refund.
- vi. repatriation allowances paid to Forty-Two (42) retired Officers in the same light, eighty (80) beneficiaries of 1st 28 days allowance were paid.
- vii. A total number of six (6) officers passed away from January 2018 to 2020 and all the deceased officers' burial expenses were paid.
- viii. The Management of Federal Ministry of Water Resources has been passionate and committed to the training and retraining of all Staff of the Ministry and in this regard eighteen (18) Consultants were engaged for the training of a total number of six hundred and twenty-eight (628) staff of various grade levels in

different Capacity building programme related to their schedule of duties.

- ix. conducted Management Retreat for all Directors and Deputy Directors in the Ministry at Ibom Hotel and Golf Resort Uyo, Akwa Ibom State from 22nd – 26th January 2020

2.2 DEPARTMENT OF WATER RESOURCES PLANNING AND TECHNICAL SUPPORT

2.2.1 Introduction

The Department of Water Resources Planning and Technical Support Services D(WRP&TSS) is the “Think-Tank” of the Ministry saddled with the responsibility of coordinating the Ministry’s projects and programmes.

2.2.2 Structure

The Department is headed by a Director assisted by Deputy Directors and other line staff. The Department is structured into four (4) Divisions, each headed by a Deputy Director. The Divisions are as follows:

- i. Collaboration and Technical Support;
- ii. Monitoring and Evaluation;
- iii. Planning, Policy and Programme; and
- iv. Research and Statistics

2.2.3 Staff Strength

The Department has 111 members of staff as at 31st December 2020:

2.2.4 Core Functions of the Department

The Department carries out the following functions:

- i. Formulation, analysis, review and updating of Annual Report, Medium Term Sector Strategy, Master Plan for the Water Sector in liaison with other Departments of the Ministry, River Basin Development Authorities (RBDAs), National Water Resources Institute (NWRI) and Agencies;
- ii. Project Monitoring and evaluation in conjunction with the other Departments of the Ministry, RBDAs, NWRI, OSGF, MFBNP, Special Duties, Fiscal Responsibility and Agencies;
- iii. Processing and review of feasibility and design studies in liaison with all the operational Departments, RBDAs, NWRI and Agencies;

- iv. Coordination, formulation and production of Water Resources Policies on development, operation and management (including design criteria, code of practice, standards, specifications, water tariffs etc);
- v. Establishment, Operation and Management of the Water Resources Information and Communication Technology;
- vi. Responsible for Coordination of the Central Water Resources Reference Library and Documentation Centre;
- vii. Execution of all Research and Statistical Activities of the Ministry including coordination of Statistical Activities of the Ministry in liaison with relevant Agencies like NBS, NPC etc.
- viii. Secretariat for the National Council on Water Resources;
- ix. Responsible for External Relations such as Bilateral, Multilateral International and Regional Relations including Food and Agricultural Organization (FAO), International Food and Agricultural Development (IFAD), NEPAD, USAID, EU, AU, LCBC, NBA, ECOWAS, NNJC etc; and
- x. Responsible for the coordination of global events such as World water week, World Water Forum component of the United Nations General Assembly and SDGs.

2.2.5 **Achievements recorded by the Department in 2020**

- i. Successful hosting of the 27th Regular Meeting of National Council on Water Resources in Abuja with the theme “Managing Water Resources in Crisis – the Nigerian Experience.” The meeting had the following sub-themes:
 - a. Covid 19 Pandemic.
 - b. Post-Covid 19 Pandemic.
 - c. Impact of Climate Change on Integrated Water Resources Management.
- ii. A total of fifty-one (51) Memoranda comprising eighteen (18) Action and thirty-three (33) Information respectively were approved and noted by the Council.
- iii. Developed draft guidelines for implementation of the National Water Resources Policy. This had since been circulated to the relevant Departments, Units and Agencies as well as other critical stakeholders for their input.
- iv. Coordinated the Honourable Minister’s appearance at the National Assembly to clear some grey areas on the National Water Resources Bill.

- v. Development of Action Plan for advocacy on the Bill to get the buy-in of stakeholders for better understanding of the content of the Bill.
- vi. The Ministerial Policy Advisory Committee (MPAC) on Water held one zoom and one physical meetings to advise the Honourable Minister on some critical issues pertaining to water resources development and management.
- vii. Reconstitution of the Project Monitoring Unit (PMU) to coordinate the implementation of the 2013 National Water Resources Masterplan.
- viii. Collation of input from the relevant Departments, Units and Agencies in the Ministry towards the review and update of the National Policy on Operation and maintenance of Water Resources Infrastructure and its guidelines as well as the development of operation and maintenance manual.
- ix. Strengthened the Ministry's Core-Team on SDG-6 saddled with the responsibility of tracking the implementing of the SDGs in the Water Sector and hold its meeting on 11th June, 2020 to map strategies towards the development of the harmonized framework and action plan for tracking of the SDG in the Sector. Also constituted a Technical Committee to develop the Implementation Framework/Action Plan with the view of harmonizing all SDG related activities.
- x. Organized round table interactive session for all Desk Officers from all the River Basin Development Authorities (RBDAs) and other water agencies on Freedom of Information (FOI), Act 2011. This was followed by Submission of FOI Annual Report for 2019 to the Federal Ministry of Justice.
- xi. Reconstitution of M&E Desk Officers of the Ministry and its Agencies as well as the inauguration of the Technical Committee of Experts for the finalization of the M&E Framework. Thereafter the draft M&E Framework for the water sector was developed
- xii. Hosting of the Consultative meeting in conjunction with the Technical Committee to review, harmonize and update indicators in line with SDG-6.
- xiii. Undertook inter-ministerial exercise with the Federal Ministry of Finance, Budget and National Planning, Special Duties, Fiscal Responsibility Commission and Nigeria Hydrological Services Agency.
- xiv. Hosted the 2020 world Water Day with the theme "Water and Climate Change"

- xv. Validated the Baseline study and planning of activities of selected pilot projects in the Niger Delta of Nigeria under the Niger Basin–Lullemeden Taoudeni/Tanezrouft Aquifers (NB-ITTAS) Project. Also, participated in validation of the draft standard for discharge of pollutants in the Niger Basin.
- xvi. Participated at the finalization of the Niger basin Authority (NBA) Organizational Chart as part of the Institutional Audit as well as at the NBA Regional Steering Committee session of projects and programmes.
- xvii. Hosting of stakeholders on Visibility of NBA and the impact of NBA activities upstream of the Niger as well as the quarterly meetings of the NBA-NFS.
- xviii. Part payment of Nigeria’s contribution towards building of a benefitting NBA Headquarters.
- xix. The FMWR through the Department of Water Resources Planning and Technical Support Services successfully hosted the 39th Ordinary Session of NBA Council of Ministers in Abuja, where major decisions and resolutions were taken to strengthen the NBA.
- xx. Bilateral/Joint Commission agreement and MoUs were signed as well as shared ideas on the international best practices for the development of the water sector.
- xxi. Selection of Consultant for recruitment of Lake Chad Basin Commission (LCBC) staff.
- xxii. Participated at the implementation of the project “**improving the management of the Lake Chad Basin**” (Under LCBC/GEF/UNDP).
- xxiii. Participated at the LCBC Campaign on the Regional Stabilization Strategy.
- xxiv. The LCBC in 2020 developed Terms of Reference(TOR) on the in-depth studies on improvement of the Hydraulic capacity of the Chari and Logone Rivers.
- xxv. Establishment of research development findings and innovation database for water sector.
- xxvi. Interfaced with National Water Resources Institute (NWRI) to harmonize research and innovation in the Water Sector.
- xxvii. Full Operationalization of National Water Resources Information System (NAWIS) at the Headquarters and six (6) geo-political zones.

- xxviii. Upgrade of solar power facilities with the acquisition of 10 KVA Pure Sine Wave Inverter System with 15 Batteries with additional 320 Watt 16 Panel.
- xxix. Capacity building of staff of the Division on Database Administration and web portal Management.
- xxx. Deployed 15 High-end Computing Desktops for the NAWIS Expansion work.
- xxxi. Comprehensive audit of water infrastructure across the country to ascertain the level of their functionalities.
- xxxii. Developed Work Plan for digitization and automation of Ministry's filing system in lines with Head of Civil Service of the Federation's directives.
- xxxiii. Deployment of wireless access point was still ongoing
- xxxiv. Website upgrade and redesign was still ongoing.
- xxxv. Provision of support service to all internet users.
- xxxvi. Installation of 10 KVA inverter (192v) with 16 batteries as back up for switches in the Ministry.
- xxxvii. Liaised with the relevant Departments (Water Supply and Water Quality Control and Sanitation (WQC&S) on data sets for reporting progress on the PEWASH and Clean Nigeria: Use the Toilet Programmes.
- xxxviii. Programme for Integrated Development and Adaptation to Climate Change in the Niger Basin (PIDACC/NB) is being implemented in four (4) River Basins namely: Upper Benue, Upper Niger, Sokoto Rima and Anambra-Imo for a period of six (6) years. The programme is being supported by the Africa Development Bank. The overall objective is to contribute to improving the resilience of the Niger River Ecosystems and populations through sustainable management of natural resources. Hence, the progress made on the programme in 2020 include:
 - a. Development of 2020 Procurement plan (African Development Bank had already granted "no objection");
 - b. Appointment of Sub-Basin Coordinators and Accountants;
 - c. Establishment of State (Sub-Basin) Technical Committees for four RBDAs of PIDACC/NB intervention areas;
 - d. National Project launch via zoom platform from 28th – 29th August, 2020;

- e. Development of Gender Action Plan for PIDACC activities;
 - f. Development of Terms of Reference (ToR) for Component 1;
 - g. Development of the sub-basin Master Plan (This was already cleared by the Africa Development Bank);
 - h. Support to operationalization of payment for Environmental Services (PES). This was submitted to the Bank for review;
 - i. Technical feasibility study and work supervision for protection of ecosystem and natural resources (Bank comments are being addressed by the project);
 - j. Preparation of financing manual for sub-project was finalized and forwarded to the Bank for review and issuance of no objection;
 - k. Development of National Environment and Social Management Plan (ESMP) was finalized and forwarded to the Bank for review and issuance of no objection;
 - l. Development of Terms of Reference (ToR) for Component 2;
 - m. Technical feasibility study, detailed design and work supervision for multipurpose infrastructure development;
 - n. Request for Expression of Interest (REoI) for multipurpose infrastructure development (cleared by the Bank and ready for publication in national dailies newspapers);
 - o. Technical study and work supervision, construction of communities' infrastructure for climate change and adaptation and embankment dykes and levies (Bank had already reviewed ToR and revert to the project for correction for issuance of no objection).
- xxxix. Secured office accommodation for PIDACC/NB at Bassan Plaza, Central Business District, Abuja.
 - xl. Undertook mission to the four PIDACC/NIB intervention RBDAs for profiling of projects and project sites, as well as determining the status of proposed projects.
 - xli. Signing of transfer agreement for Global Environmental Facilities (Fund) between Niger Basin Authority and Federal Ministry of Water Resources.
 - xlii. Recruitment of Procurement and Monitoring and Evaluation Experts through competitive bidding.

2.3 DEPARTMENT OF FINANCE AND ACCOUNTS

2.3.1 Introduction

The Department of Finance and Accounts is one of the service departments in the Ministry it is statutorily charged with the responsibility of providing financial services to the Ministry. The Department is headed by a Director, who also doubles as Sub-Accounting Officer. Aim at procuring sufficient financial resources for the sustainable implementation of the Ministry's mandate.

2.3.3 Structure

Traditionally, the Department of Finance and Accounts is made up of two (2) Divisions namely:-

- I. Accounts Division**
- II. Budget Division**

The Accounts Division (Accounts, Capital, Funds and CPO) which is saddled with the responsibility for financial administration of the Ministry is made up of twelve (12) sections. However, for administrative convenience, the Sections are further grouped into four each headed by a Deputy Director.

The Budget Division is under the Department of Finance and Accounts. It is headed by a Deputy Director. The Division is responsible for collation, reconciliation and synthesize of the Ministry's annual budget as well as the monitoring of the budget implementation procedure to ensure due process compliance. It is made up of two (2) units namely Capital Budget and Recurrent Budget.

2.3.4 Staff Strength

The total staff strength of the Department stood at one hundred and fifty-five (155) as at 31st December, 2020 made up of eighty-seven (87) males and sixty-eight (68) females.

2.3.5 Functions

- i. Ensuring compliance with Financial Regulation and Accounting codes by all staff under its control and supervision;
- ii. Receipt, custody and disbursement of public funds;
- iii. Prompt processing of all approved payments;
- iv. Providing financial information to the Management for decision making;
- v. Liaises with the office the accountant General of the Federal (OAGF), Central Bank of Nigeria (CBN), Budget Office of the Federation (BOF) and other Financial Institutions;
- vi. Liaising with the National Assembly (Public Account Committee) and other Financial Institutions;
- vii. Responding to all queries from internal Audit Unit, Inspectorate Department, Office of the Accountant General of the Federation (OAGF), Office of the Auditor – General for the Federation (AGF) and Public Account Committee (PAC);
- viii. Regulating and guiding all treasury staff under its supervision;
- ix. Ensuring adequate supervision of the disbursement of funds and proper monitoring and accounting for revenue;
- x. Advising the Accounting Officer on all financial matters as well as the more technical provisions of these Regulations and other Treasury and finance Circulars; and
- xi. Maintaining proper accounting records such as books of accounts, Main

2.3.6 Projects/Programmes executed in 2020

	Projects/Programme Title	Project Description	Percentage Level Of Completion As At December 2020	Specific Achievements In 2020	Challenges/Constraints	REMARKS
1	Verification and Reconstruction of RBDAs Accounting Operations in line with IPSAS Accrual	1. Establishment of Budget Data Baseline 2. Verification of RBDAs accounting operations 3. Reconstruction of 12 RBDAs accounting operations in line with IPSAS Accrual	100%	Efficient accounting operations and financial administration of the RBDAs	Irregular releases of funds	On-going
2	Automation of	1. Procurement of	100%	Efficient	Irregular	On-going

	Accounts and Budget Operations TSA, IPSAS Acrual Basis and Gifmis System	software license 2. Procurement of computer hardware and LAN (Local Area Network) 3. Installation, configuration, customization and users' training 4. Digitalization of the Department		accounting operations and financial administration	releases of funds	
3	Monitoring and Evaluation/Implementation of MTSS-ERGP and Annual Appropriation (Budget)	Quarterly and half yearly monitoring of budget implementation in conjunction with Ministry of Finance, Budget and National Planning	100%	Quarterly and half yearly monitoring of budget implementation in conjunction with Ministry of Finance, Budget and National Planning	Irregular releases of funds	On-going
4	Electronic Fixed Asset Register	1. Procurement of software license 2. Procurement of computer hardware and LAN (Local Area Network) 3. Installation, configuration of Fixed Assets Register, Fixed Assets Register software testing, customization and users' training (3 users)	100%	Efficient accounting operations and financial administration	Irregular releases of funds	On-going
	TOTAL		100%			

2.3.7 Revenue Generated by the Ministry in 2020

S/N	TYPES OF REVENUE	OTHERS(SPECIFY)	DATE OF ACTIVITIES	AMOUNT GENERATED	NAME OF BENEFICIARY
1	Internally Generated Revenue		JAN –DEC 2020	14,992,801.75	Tresurer Single Account Federal Government

2.4 GENERAL SERVICES DEPARTMENT

2.4.1 Introduction

The Department of General Services was a Division under Administration Department of Ministries/ Extra Ministerial Department (MDAs) prior to its creation on 11th March, 2014 vide Circular No. HCSF/CMO/EM/243/17. The Department is to create and maintain a healthy and conducive working environment as well as the provision of necessary tools for the realization of the vision and mission of the Ministry.

2.4.2 Structure and Functions of the Department

The Department is divided into two divisions; General Services and Facility Management and each division is headed by a Deputy Director charged with the following functions:

- i. Transport Administration
- ii. Utility Services
- iii. Store Management
- iv. Security
- v. Maintenance Services
- vi. Facility Management
- vii. Plant and Equipment
- viii. Office Allocation

2.4.3 Staff Strength

The Department has eighty-two (82) staff, out of this number, four (4) are of the Directorate Level, while the remaining are of the Administrative, Executive, Technical and Clerical Cadres respectively. The eighty-two (82) staff are made up of fifty-eight (58) males and twenty-four (24) females.

2.4.4 Short Description of the Activities carried out by the Department including achievements in 2020.

During the period under review, the country was besieged with the outbreak of the Corona-Virus (Covid 19) pandemic, and as such, the General Services Department provided the needed materials aimed at combating the Corona Virus (Covid-19) disease for all staff of the Ministry;

In specific terms, the Department carried out the following activities:

- i. provision of Hand Wash Machines, Sanitizers and Soaps;
- ii. production of circulars on prevention and spread of COVID – 19;
- iii. provision of Disinfection Machines to prevent spread of COVID– 19;
- iv. renovation of toilets and improve sanitation of the environment;
- v. improve Power Supply to the Ministry;
- vi. deduction of Electricity Bills from Source;
- vii. alternate Source of Power through 4 Nos. Generators;
- viii. alternative water supply by the connection of the Ministry to the central borehole;
- ix. settlement of outstanding Bills being process; Security, Cleaning Services and Vehicle Insurance;
- x. provision of Basic working materials such as Stationery Items.
- xi. repair and replacement of Transformer, Feeder Pillar and burnt Armored Cable;
- xii. minor repairs of toilets in the old and new building;
- xiii. repairs of overheating Generating set;
- xiv. replacement of non-functional lighting points in the Offices, Conference Room and corridors;
- xv. repair of Air Conditioners;
- xvi. organized an in-house meeting in line with Performance Management System in collaboration with HRM;
- xvii. repairs of water Fountain;
- xviii. evacuation of full soakaway; and
- xix. renovation of Director Irrigations office.

The Department has a functional Store Unit made up of Capital and Stationery Stores. The following items were purchased and distributed to Departments/Units by the Store:

- i. Foot and Neck Massagers
- ii. Stationery

2.4.5 Challenges

- a. Inadequate funding;
- b. Inadequate Office Accommodation;
- c. Shortage of parking space;
- d. Shortage of permanent drivers as those driving the vehicles are outsourced; and
- e. Inadequate vehicles in the pool as those available are ageing.

2.4.6 Way Forward

- i. Prompt release of funds to enable the Department implement its projects and programmes;
- ii. Provision of more staff buses to facilitate the movement of staff to and fro the office;
- iii. Provision of stand by Ambulance for emergency cases at the Clinic of the Ministry upon completion;
- iv. Need for the provision of training programmes to enhance efficiency and service delivery of staff of the Department;
- v. Need to recruit drivers as the outsourced drivers are expensive to maintain by the Department;
- vi. Need for the provision of conducive and more office accommodation to members of staff; and
- vii. The need for the provision of alternative power source (Solar power) to complement the generating set whenever there is power outage in the Ministry.

2.5 PROCUREMENT DEPARTMENT

2.5.1 Introduction:

The Department of Procurement of the Ministry was created in 2008 following the enactment of Procurement Act, 2007 and Circular No.: HCSF/PSO/155/1/25 of 9th June, 2008 from the Office of the Head of Service of the Federation and charged with the statutory responsibilities of ensuring Due Process, Probity, Accountability, Transparency, Competitiveness and Value for money in the procurement of all goods, works and services in the Ministry.

2.5.2 Structure:

The Department was made up of two Divisions namely; Capital and Recurrent. It was headed by a Director (SGL.17) and supported by a Deputy Director and other line staff.

2.5.3 Functions of Department of Procurement

In line with the Public Procurement Act (PPA) 2007 and extant Circular from the Head of Service of the Federation (Circular No. HCSF/PSO/155/1/25 of 9th June, 2008), the functions/activities of the Department are as stated below:

The Department is responsible for the procurement of goods, works and services to the Ministry. In specific terms, responsibilities include but not limited to the following: -

- i. collation and preparation of needs assessment of the Ministry;
- ii. preparation and forwarding of the Procurement Plan of the Ministry to Bureau of Public Procurement (BPP);
- iii. collation, Preparation and forwarding of the Procurement Records of the Ministry to Bureau of Public Procurement (BPP);
- iv. collation and preparation of Department Utilization Plans;
- v. serves as the Secretariat of the Procurement Planning Committee (PPC) and Ministerial Tenders Board (MTB);
- vi. preparation and Placement of advertisements, collation and issuing of the Standard Bidding Documents as specified in the Procurement Act;

- vii. opening of Technical and Financial Bid Documents as submitted by Bidders;
- viii. evaluation of Technical and Financial Bid Documents;
- ix. preparation of Technical and Financial Evaluation Report;
- x. preparation of Memoranda for Ministerial Tenders Board meetings;
- xi. issues award letters to successful Contractors;
- xii. conducts appropriate price intelligence survey to obtain value for money before award;
- xiii. obtains 'Due Process' and Certificate of "No Objection" to contract award' from BPP;
- xiv. obtains approval from Federal Executive Council to contract award; and
- xv. oversight of the Ministry's Agencies.

2.5.4 **Staff strength**

The Department has a staff strength of thirty-four (32) staff as at 31st December, 2020 which cut across various disciplines and cadres.

2.5.5 **Activities of the Department in 2020**

The Procurement process for year 2020 started with the inauguration of the Procurement Planning Committee (PPC). This was followed by consideration of the projects in 2020 Appropriation Act for Specific Procurement Notice (SPN) and the 2020 Procurement plan while payment for the ongoing projects in the 2020 Budget were processed by the various Department.

There were sets of advertisements for year 2020 projects, which comprised Ministry core projects and the Constituency Based projects. The number of projects were advertised based on different categories. The bid evaluation was carried after the submission of the necessary documents by the bidders.

In line with the Public Procurement Act 2007, the Department awarded a number of projects ranging from water supply, irrigations, dams, sanitation and hygiene facilities, flood vulnerability/hydrology mapping, consultancy services for study and design of the new projects, etc.

2.6 INTERNAL AUDIT DEPARTMENT

2.6.1 Introduction

The Internal Audit Department of the Ministry is one of the service departments. It is responsible for internal auditing on activities of the Ministry and assisting management to measure and evaluate the effectiveness of all control mechanisms put in place. The department, not only carries out financial audit, but also management audit of other areas of the Ministry's functions with a view to monitoring their efficiency and effectiveness. It carries out special reviews or assignments, which may be directed by management. In some circumstances, the department initiates special review in the course of normal audit assignments.

2.6.2 Structure

The Internal Audit Department is headed by a Director who is directly responsible to the Permanent Secretary/Accounting officer for the execution of duties as spelt out in chapter 17 of Financial Regulations.

2.6.3 Staff Strength

The Department had a total staff strength of forty-three (43) staff as at 31st December, 2020. This was made up of twenty-one (21) males and twenty-two (23) females.

2.6.4 Duties of Internal Audit Department:

- The Department is saddled with developing master Audit programs that will outline the auditing tasks to be carried out throughout the year with timelines of completion of the tasks;
- Compliance with Audit Guidelines, Financial Regulations Accounting Codes and other extant rules is also enforced by the Department;
- Assures adequate supervision and auditing of the disbursement of public funds and proper monitoring and accounting for revenue;
- Advising the Accounting Officer on all auditing matters, technical provisions of the audit regulation and Treasury Circulars;
- Ensuring the auditing of financial returns (monthly transcripts, bank reconciliation statements, Revenue and Expenditure returns)

other statutory returns and that the returns are promptly rendered to the Treasury in line with the extant rules and regulations;

- The Department also sees to the auditing of accounting records such as books of accounts, Main and Subsidiary Ledgers;
- Securing regular training programs for all Internal Audit Staff to prepare them for the efficient performance of their duties;
- Guarantee the timely compilation and regular submission of monthly audit reports to the Accounting Officer and the Treasury;
- Make certain that periodic checks of all Government Statutory Corporations Commissions and Agencies under their Ministry is implemented and,
- Liaising with the Accountant General from time to time in the interpretation of the provisions of the Financial Regulations and other Treasury Circulars where necessary.

2.6.5 Programmes executed by the Department in 2020

S/N	PROJECTS/PROGRAMMES TITLE	PROJECT DESCRIPTION	PERCENTAGE OF LEVEL OF COMPLIANCE AS AT DECEMBER, 2020
	Computerization Of Internal Audit	ERGP29111979	On-Going
	Internal Audit Inspection of Capital Projects Nationwide (Completed)	ERGP30111943	On-Going
	Internal Audit Verification of Ongoing Capital Projects	ERGP30111964	On-Going
	Internal Audit Inspection of Books of Accounts and Accounts of RBDA's in line with GIFMIS	ERGP7111954	On-Going

2.6.6 Pre-Payment/System Audit:

- The Internal Audit Department carries out day to day activities particularly in the area of prepayment and system audit operations.
- The Department Develops appropriate tasks that will ensure seamless implementation of emerging technologies in downloading files from the GIFMIS System for further analysis.
- The responsibility to further reinforce internal audit functions in the area of prepayment audit also lies with the Internal Audit Department.
- Ensuring effective implementation of internal audit monitoring and evaluation activities.

- Certifying that laid down procedures are being observed in tendering, contracts and store keeping with a view to preventing waste, pilferages and extravagance.

2.6.7 Budget Monitoring/Forensic Audit

- The Internal Audit Department daily exercises oversight responsibility through monitoring and supervision, particularly in the areas of budget, revenue monitoring and forensic audit operations of the Ministry and its agencies.
- Developing of proper budget and revenue monitoring and evaluating audit related activities that will guarantee regular and up to date reports on execution of the budget by the Ministry its agencies.
- Use of problem solving tools and techniques in the areas of forensic audit and investigation.
- Advising in the application of specialized knowledge and software in the areas of audit and investigation.
- Liaising with all relevant agencies in the area of conduct of value for money (performance) audit — to ascertain the level of economy, efficiency and effectiveness derived from government projects and programmes.

2.6.8 System Audit

- The Department participates in risk analysis of the current state, pros and cons of the alternatives.
- Also the establishing of performance measures, monitoring and continuous quality assurance to ensure compliance with internal audit guidelines and standards in the Ministry.
- The responsibility for the performance of system audit and enforcing of compliance with applicable laws, regulation, policies and procedures, also lies with the Department.
- Supervision of subordinate staff to ensure knowledge transfer through training and capacity building.
- The Department also carries out auditing tasks and activities to ensure efficiency and effectiveness in the operations of system auditing function of the Ministry and its agencies.
- Designs and executes an effective means of system of internal controls which provides reasonable assurance that operations are effective and efficient, assets are safeguarded and financial

information is reliable that can be tendered as an evidence in the court.

2.6.9 **Functions**

- i. **PRE-PAYMENT AUDIT:** This involves audit of all payment vouchers (e.g. variation advice, Capital and Overheads, etc) before payments are made at the Central Pay Office (CPO). In this regard, it is mandatory that internal audit stamp, issued by the Accountant General of the Federation with an identification number is appended on all audited payment vouchers as a mark of verification.
- ii. **REPORT:** Monthly, quarterly, half yearly and end of the year reports of the department activities are rendered to the Permanent Secretary, and copies of the reports are forwarded to the Accountant General of the Federation and the Auditor General for the Federation, in compliance with chapter 17 of the Financial Regulations (Revised to January, 2009).
- iii. **AUDITING OF RBDA:** To ensure compliance with Financial Regulations and other extant rules, the monitoring and verification of RBDA accounts and projects are carried out yearly and the reports were been sent to permanent secretary with a copy to Accountant General of the Federation.
- iv. **AD-HOC DUTIES:** Ad-hoc assignments are also carried out by the department from time to time as may be directed by the Permanent Secretary or the Honourable Minister. The department participates in Ministerial Tenders Board and Management Meetings. Also, the department participates from time to time in the procurement process such as opening of Bids, pre-qualification exercise etc.

2.6.10 **Constraints / Challenges**

The Internal Audit Department is faced with challenges in the course of performing its duties and these include: -

- i. Lack of adequate budgetary provision and untimely release of funds
- ii. Inadequate capacity building for the staff of the Department
- iii. The Department has limited office space.
- iv. Inadequate office equipment including computers, photocopy machines, etc.

2.6.11 **Way Forward**

- Funding of the Audit Programme of the department should be improved and timely provided now that it is a full department.
- More office accommodation should be provided for the department.
- The department should be provided with computers and photocopying machines to facilitate production of reports at the headquarters and the agencies.
- Training and re-training of audit staff with Modern Techniques of auditing, particularly in the area of information technology and forensic auditing in view of the computerization of the Ministry's accounting system and current Financial Management Reforms.

2.7 SPECIAL DUTIES DEPARTMENT

2.7.1 Introduction

The Special Duties Department was created by the Office of the Head of Civil Service of the Federation vide circular reference Number HCSF/CMO/EM/243/17 dated 11th March 2014 and mandated to take over the duties of the Director, Office of the Permanent Secretary in addition to the under listed specific functions:

2.7.2 Structure and Function:

The Department is headed by a Director, and has a staff strength of eleven (11) officers made up of eight (8) male and three (3) female

The Department has the following functions:

- i. assisting the Permanent Secretary to provide line supervision and general management to all the staff of Offices of the Honourable Minister and the Permanent Secretary;
- ii. execute assigned projects for the Permanent Secretary;
- iii. manage assigned direct reporting units on behalf of the Permanent Secretary;
- iv. assisting the Permanent Secretary, as required, to formulate and articulate his/her leadership agenda for the Ministry;
- v. provide support, in time of leadership transition in the Ministry;
- vi. management of high-level stakeholder access to the Permanent Secretary;
- vii. assisting the Permanent Secretary manage his/her schedule to ensure that his/her activities follow espoused priorities;
- viii. coordination of the Permanent Secretaries response to emergencies;
- ix. scheduling of all staff meetings and briefings involving the Permanent Secretary;
- x. coordination of the daily briefing sessions of the Permanent Secretary's official schedule;
- xi. represent the Permanent Secretary in certain functions;

- xii. coordination of the constituency projects; and
- xiii. liaison with National Assembly;

2.7.3 Activities carried out by the Department including achievements

During the year under review, the Department through National Assembly Liaison Unit recorded some modest/positive achievements in many interactive sessions covering areas of budget defense, budget performance and utilization, Public Accounts on appropriations and expenditures, oversight functions and monitoring of water resources projects, Public Hearings.

2.7.4 Other Notable Achievements include:

- i. participated and contributed to the development and coordination of policies, projects and plans formulated to support the Ministry's agenda for the transformation of the water sector in Nigeria;
- ii. provided an enabling environment for effective institutional networking between the Ministry and stakeholders in the water sector with a view to strengthening public private sector partnership initiatives in the sector;
- iii. facilitated the implementation of the itinerary of the Honourable Minister and Permanent Secretary through the Protocol Unit;
- iv. participated in monitoring, inspection and documentation of programmes/projects implementation;
- v. supported efforts by the Ministry to process data to generate reference materials necessary to create awareness for stakeholders, prospective investors and the general public on the sustainable basis;
- vi. successful coordination of briefing of the Honourable Minister and the Permanent Secretary by Departments, Agencies and Parastatals of the Ministry; and
- vii. organized Sensitization Workshop and Zonal Flood Monitoring for Disaster Risk Reduction in Water Sector held from 25th – November, 2020 at Asaba, Delta State.

2.8 DEPARTMENT OF DAMS AND RESERVOIR OPERATIONS

2.8.1 Introduction

The Department of Dams and Reservoir Operations is mandated to undertake the planning, designing, supervision of construction and regulating of all Dams and Reservoirs in Nigeria. The Department is headed by the Director of Dams and Reservoir Operations.

The Department is divided into five (5) Technical Divisions as approved by the Head of Service of the Federation in the recently concluded reform of the Ministry structure. Each Division is headed by a Deputy Director. The five (5) Technical Divisions are as follows: -

- i. Dam Engineering Services
- ii. Dam Instrumentation and Safety
- iii. Hydropower Development
- iv. Dam Reservoir Operations
- v. Geotechnical and Support Services

2.8.2 Staff Strength

The Department during the period had a staff strength of one hundred and forty-four (144), comprising one hundred and twenty-five (125) technical and nineteen (19) supporting staff, made up of ninety-nine (99) males and forty-five (45) females.

2.8.3 Functions

The following, among others, are the functions of the Department:

- i. Conducting feasibility studies for Dams site selection, topographical survey, geological, geochemical, geophysical, geotechnical and hydrological studies of Dam sites before commencement of any Dam construction.
- ii. Conduct and Supervise Environmental Impact Assessment (EIA) Studies and Environmental Audit of Dam projects.
- iii. Formulation and implementation of appropriate guidelines, policies and programmes for planning, design, development, operation and maintenance of Dams and storage schemes

undertaken by River Basin Development Authorities (RBDA's), States Water Boards and Private Agencies throughout the country. This is facilitated by proper liaising with Dam Regulatory and Operational Bodies (Internal and External) such as National Sub-Committee on Large Dams and International Commission on Large Dams (ICOLD).

- iv. Construction, supervision of Dams and Hydropower projects in accordance with the provisions of the National Water Resources Master Plan (NWRMP).
- v. Study of Hydropower potentials of new and existing Dam sites.
- vi. Ensuring safety and functionality of all existing Dams in the country by undertaking studies and organizing Dams and Reservoir safety inspection of completed and on-going Dams and ensuring installation of safety devices in all on-going and proposed Dams.
- vii. Undertake the analysis of Dam surveillance data and preparation of programme for periodic evaluation as well as rehabilitation and modifications of all existing Dams nationwide.
- viii. Developing specific reservoir operation models for major reservoirs in the country, establishing standards for management of reservoir water quality and organising and attending seminars, workshops, meetings and conferences on strategies for efficient and effective control of Dams and reservoirs in Nigeria.
- ix. Enhancing in-house capability of RBDAs through direct labour execution of small Dams for irrigation and water supply at village/community level by proper harnessing of both human and material resources of the respective RBDA's.
- x. Ensuring that Dams are constructed in accordance with the provisions of National Water Resources Master Plan and with best Engineering Practice.
- xi. Ensuring the inter-basin transfer of water from areas of surplus to areas of scarcity.
- xii. Ensuring that the regulatory framework for construction of Dams (irrespective of the reservoir capacity) which are either trans-boundary/interstate in spread and or multipurpose in use is the sole responsibility of the Federal Government.
- xiii. Mobilization for greater participation of International Donor Agencies.

2.8.4 Major Accomplishments

During the period under review, the Department made the following progress in the execution of the major projects, as shown in the table below:

S/N	NAME OF PROJECT	LOCATION	% of Completion Before 30 th Sept. 2020	% of Completion From 30 th Sept. to 31 st Dec. 2020
i.	Construction of Mangu Dam	Plateau State	80	82
ii.	Construction of Adada River Dam	Enugu State	90	98
iii.	Construction of Ingawa-Dallaje Dam	Katsina State	70	75
iv.	Construction of Gadau-Lafiya Zigau	Bauchi State	85	90
v.	Construction of Kontagora (Auna) Dam and Irrigation Project	Niger State	57	58.5
vi.	Construction of Farin-Ruwa Dam and Water Supply Project	Nasarawa State	5	Payment of mobilisation effected, and Contractor mobilised to site
vii.	Construction of Ogbesse Dam	Ekiti State	45	46
viii.	Consultancy Services for assessment of rehabilitation needs for the completion of Inyishi Dam Project.	Imo State	75	100%
ix.	Production of Compendium of Dams in Nigeria	Nationwide	85	100%
x.	Construction of Hawal Interbasin Water Transfer in Biu Local Government Area of Borno State.	Borno State	At tendering state	Assessment of tenders for the procurement of works contractor was completed and the evaluation report was sent to the BPP in December 2020 for grant of Certificate of No Objection for award of contract.

It should be noted that the Department has other important Projects that had been completed. These include the followings:

S/N	NAME OF PROJECT	STATUS	REMARKS
(A)	COMPLETED PROJECTS		
i.	Construction of Ogwashi-Uku Dam, Delta State.	Completed	Completed and handed over to Benin Owena River Basin Development Authority(BORBDA) for operation and maintenance
ii.	Construction of Ibiono-Ibom Dam, Akwa-Ibom State.	Completed	Completed and handed over to Cross River Basin Development Authority(CRRBDA) for operation and maintenance

S/N	NAME OF PROJECT	STATUS	REMARKS
iii.	Construction of Amauzari Earth Dam Bridges and Access Road, Imo State	Completed	100% Completed and handed over to Anambra Imo River Basin Development Authority(AIRBDA) for operation, maintenance and further development
iv.	Construction of Amla-Otukpo Earth Dam, Benue State	Completed	Certificate of substantial completion to be issued after completion of remedial works.
v.	Construction of Gimi Earth Dam, Kaduna State.	Completed	Completed and handed over to Upper Niger River Basin Development Authority(UNRBDA).
vi.	Construction of Sulma Earth Dam in Katsina State	Completed	Completed and handed over to Katsina State Government/ Sokoto Rima River Basin Development Authority(SRRBDA)
vii.	Rehabilitation of Kampe-Omi Dam, Yagba Local Government area of Kogi State.	Completed	Completed and Handed over to Lower Niger River Basin Development Authority(LNRBDA)
viii.	Rehabilitation of Kargo Dam in Kaduna State.	Completed	Completed and handed over to Upper Niger River Basin Development Authority(UNRBDA)
ix.	Study and design of Ojoga Dam in Benue State	Completed	The final design documents sent to Lower Benue River Basin Development Authority(LBRBDA) for implementation
x.	Gurara water transfer to FCT Project:	100% completed and handed over to Client	Hydropower component concessioned as it is.
(a)	Lot A: Contract for Remedial and Repair Works beyond the Defect Liability Period of Gurara Water Transfer to FCT Lot A: Dams and Associated Work Dam and Associated Works.	Completed works are taken over by Client and handed over to Facility Managers. The uncompleted works was cancelled from the existing contract.	The contract is closed and final account effected. The uncompleted repair works of the Dam Gate to be repackaged for completion. Outstanding liabilities of N10Billion sent to DMO
(b)	Lot B: Operation and Maintenance of Conveyance Pipeline	100% completed and handed over to client	Facility Manager engaged for operation and maintenance of the facilities.

S/N	NAME OF PROJECT	STATUS	REMARKS
xi.	Kashimbilla/Gamovo Multipurpose Dam, Taraba State	<p>Completed Component:</p> <ul style="list-style-type: none"> • Dam & Related Structures - 100% • Hydropower Station- 100% • Landing Airstrip - 100% <p>On-going component:</p> <ul style="list-style-type: none"> • Water Supply System - 68%, • Irrigation Scheme - 5% • Dam Access Road - 92% • Access Roads to Resettlement Camps -20% <p>• The overall % Level of completion is 84.59%.</p>	<p>Outstanding Works:</p> <ul style="list-style-type: none"> • Completion of Water supply system comprising Water Treatment Plant of 60,000m³/day and Transmission mains of 65Km of 800mm diameter DI pipe. • Irrigation Scheme • Dam Access Road • Access Roads to Resettlement Camps • Slope Protection works for pipeline from treatment plant to the balancing reservoir.
xii.	Construction of Mangu Dam, Mangu town Plateau State.	<ul style="list-style-type: none"> • Foundation works – 100% completion • Spillway structure – 100% completion. • Intake structure – 100% completion • Dam embankment 80% completion 	<p>Outstanding works:</p> <ul style="list-style-type: none"> • Completion of dam embankment • Electro- Mechanical works of the intake structures to the treatment plan. • Completion upstream & downstream protection work
xiii.	Construction of Adada River Dam, Enugu State.	<p>Percentage Completion of On-going Works:</p> <ul style="list-style-type: none"> • The embankment – 98% • Raw water intake works - 100% • Access bridge to intake tower – 100%. • Spillway – 100% • Dam bottom outlet works – 100% • Access Road – 65%. • Water treatment plant - Review of design completed <p>• Overall progress of work - 70%</p>	<p>Outstanding Works:</p> <ul style="list-style-type: none"> • Asphaltting of the dam crest • Completion of access road • Water Treatment Plant • Ancillary works
xiv.	Construction of Ingawa/Dallaje Dam in Katsina State.	<p>Percentage Completion of On-going Works:</p> <ul style="list-style-type: none"> • Dam embankment – 66% • Spillway – 98% • Access Road – 75% • Draw-off works – 68% • Pumping house – 45% <p>Overall progress of work is 75% completion.</p>	<p>Outstanding works:</p> <ul style="list-style-type: none"> • Completion of Dam embankment, • Spillway Channel, • Access road, • Draw-off works • Pumping house. <p>₦257,559,816.36</p>

S/N	NAME OF PROJECT	STATUS	REMARKS
xv.	Construction of Gadau/Lafiya-Zigau Dam in Bauchi State.	The project is on-going and the Contractor is on site. The project is scheduled to be completed by first quarter of 2021	The overall progress of work is 90% completion.
xvi.	Construction of Alajue Small Earth Dam (MDG), Osun State	The overall progress of work is 90% completion. The project is scheduled to be completed by first quarter of 2021	Completion of slope protection works

2.8.5 Hydropower Projects

In the area of Hydropower Projects, it is worthy to mention that the Department, during the period under discussion, has collaborated with the Federal Ministry of Power (FMP), to develop the Nigerian Power Sector Investment Opportunities and Guidelines for willing investors to take advantage of the hydropower potentials that exist in some of our Dams.

Works on Dadin Kowa Hydropower Project already concessioned has reached advanced stage of completion. Also, works on Tiga and Challawa Hydropower projects concessioned to the Kano State Government was on-going.

FMWR through the Department, is collaborating with FMP for potential Hydropower generation development, under Public Private Partnership (PPP) arrangement, these are:

- i. The Kashimbilla Dam Hydropower plant – 40MW;
- ii. Gurara Dam Hydropower Project – 30MW;
- iii. Ogashi-Uku Dam Hydropower plant – 1MW;
- iv. Dadin Kowa Dam Hydropower plant – 15MW;
- v. Tiga Dam Hydropower plant – 20MW;
- vi. Challawa Gorge Dam Hydropower plant – 10MW;
- vii. Mangu Dam Hydropower Plant – 182MW;
- viii. Gurara II Multipurpose Dam – 360MW;
- ix. Itisi Multipurpose Dam Hydropower Plant – 40MW and
- x. Farin-Ruwa Dam Hydropower Plant – 20MW;

Also, the Department has identified and carried out studies on some of the completed and on-going Dam projects for Hydropower, nineteen

(19) of which have the potentials for Hydropower generation with a total capacity of 3,557MW. These Dams include; Gurara, *Oyan*, Ikere Gorge, Bakolori, DadinKowa, Tiga, Kiri, Jibiya, Challawa Gorge, Owena, Doma, Waya, Mgbowo, Zobe, Kampe, Kashimbilla, Ogwashiku, Zungeru and Mambila.

During the period under consideration, the Ministry has taken over the Farin Ruwa Dam Hydropower plant – 20MW from Nassarawa State Government for completion and concessioning.

2.8.6 Challenges

- i. Inadequate funding of Projects
- ii. Changes in Government policy

2.8.7 Recommendations

- i. Provision of funds for research and development of dams i.e. planning; design; construction, operation and maintenance for timely completion of our projects. Training and retraining of staff and personnel of the Department is also a way forward in achieving the mandate of the Department.
- ii. The Department will also work out modalities for the involvement of development partners to assist in the funding and development of our projects by way of PPP arrangements
- iii. Provision of adequate funding to enable timely completion of projects, through other sources of funds like the Natural Resources Intervention funds, Ecological funds be sought to augment the main budget lines of the ongoing projects.

Some Photographs of Dam Projects



KASHIMBILLA DAM HYDROPOWER PLANT

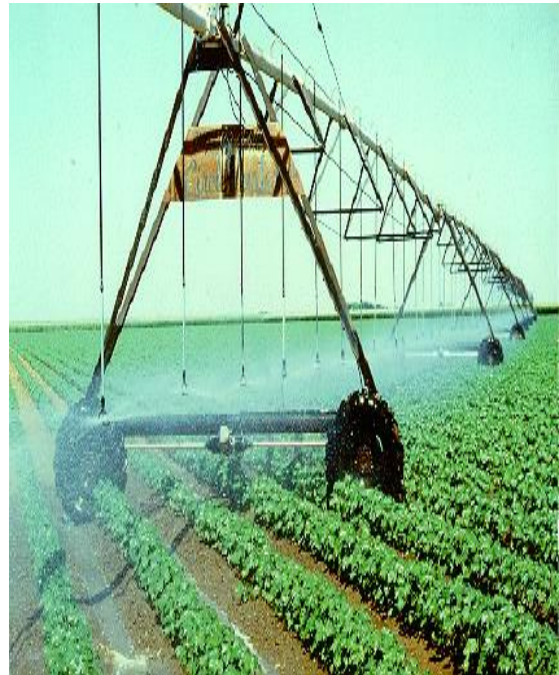


KASHIMBILLA DAM HYDROPOWER PLANT





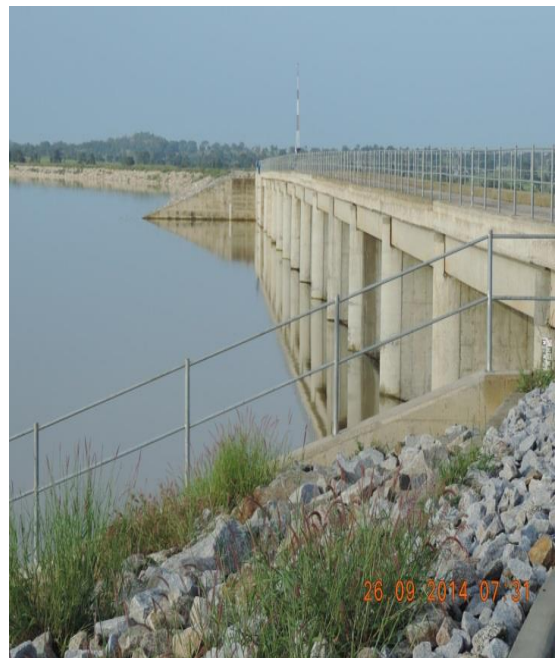
**GURARA MULTIPURPOSE
DAM**



GURARA IRRIGATION



**GURARA POWER STATION
/TRANSMISSION LINE**



**GALMA MULTIPURPOSE DAM
PHASE I**



OGWASHI-UKU DAM RESERVOIR



OGWASHI-UKU DAM SPILLWAY

PHOTO REPORT



Laying of Geotextile and Chippings in Toe Beam Trench and floor of
Step no. 4



Arrangement and Fixing of Reinforcement bars in Embedded Stone Slab

KONTAGORA (AUNA) DAM CONSTRUCTION



GIMI DAM RESERVOIR



GIMI DAM SPILLWAY

GALMA DAM



A Section of the Reservoir



2.9 DEPARTMENT OF IRRIGATION AND DRAINAGE

2.9.1 Introduction

Irrigation and Drainage Department is one of the Technical Departments of the Federal Ministry of Water Resources. It is saddled with the responsibility of implementing irrigation and drainage programmes and policies of the Federal Government of Nigeria.

2.9.2 Staff Disposition

The Department has a total staff strength of eighty-six (86) consisting of sixty-two (62) males and twenty-four (24) females.

2.9.3 Functions

- i. Provision of technical support and guidance for the formation, periodic review and implementation of National Policy regarding the planning, development, operation and maintenance of irrigation and drainage projects, consistent with the National Water Resource and Agricultural Policies of Nigeria;
- ii. Carrying out studies on the scope and extent of irrigation and provision of a well-articulated and comprehensive master plan for irrigation development in Nigeria;
- iii. Provision of necessary initiatives, guidance and support of plans and programmes of the River Basin Development Authorities (RBDAs) for irrigated agriculture, as well as supervision, monitoring and effective coordination of such plans and programmes;
- iv. Provision of necessary initiatives and resources for drawing up a code of practice for irrigation and drainage in Nigeria;
- v. Provision of technical support and guidance for formulation, periodic review and implementation of national policies regarding land tenure and compensation for irrigation development in Nigeria;
- vi. Liaising with and participation in activities of national, regional and international water resources organizations on all matters relating to irrigation and drainage;
- vii. Attracting private sector participation in the infrastructure development for expanding the horizon food and fiber production;
- viii. Effective and efficient management of water use for the purpose of future sustainability;
- ix. Institutional strengthening of irrigation agencies and farmer's groups;
- x. Downstream development of irrigation and drainage facilities;
- xi. Technical Support for planning and design activities of the RBDAs to ensure technical appropriateness, economic viability and assist with sourcing of funds for their implementation;
- xii. Provision of support services and establishment of sustainable operation, maintenance and management guidelines that is based on appropriate government policies;
- xiii. Continuous monitoring and evaluation/performance assessment of the Irrigation and Drainage development in Nigeria.

2.9.4 Programmes and Projects: implementation status

2.9.4.1 Rehabilitation of Lower Anambra Irrigation Project (LAIP)

LAIP is located at Omor in the Anyamelum Local Government Area of Anambra State. The project which consists of 3,850ha developed for double cropping of rice annually was commissioned in 1987. Over the years, the project facilities have deteriorated due to age and lack of adequate maintenance. This resulted in the drastic reduction in both the area under cultivation and average yield per hectare. Hence, the Federal government decided to rehabilitate the schemes in order to bring it to its original production capacity. The reactivation of the project was awarded to Messrs Hydro Works Limited in 2005, but the project could not be completed on schedule due to inadequate funding and price escalation. The project was later revised and approval was granted. The engagement of a consultancy service to examine the possibility of lifting water into the head-race canal by solar pump was still in progress.

2.9.4.2 **Middle Ogun Irrigation Project**

The Middle Ogun Irrigation project is intended to develop 12,000 Ha of land under irrigation in four (4) equal phases on the left and right banks of River Ogun at Odo-Ogun along Oyo-Iseyin road, about 10km from Iseyin in Oyo State.

The contract for the first phase of the project was awarded to Messrs Niko Engineering Ltd in December 1990 to cover 3,000 Ha of farmland. However, the project was stalled in 2015 due to paucity of funds which in turn led to escalation of cost. The procurement processes for contract awards for Consultancy Services for the study and re-design of Middle Ogun Irrigation Project had reached advance stage. Due Process Certificate of “No Objection” for the award of contract for the Provision of Dedicated Power Line had been obtained from Bureau of Public Procurement (BPP), prelude to request for FEC’s approval in order to tackle the energy challenge of the Project. The project had attained 63% level of completion as at 31st December, 2020.

2.9.4.3 **Completion of Kano River Irrigation Project (KRIP) – Phase 1**

Kano River Irrigation Project 1 (KRIP 1) is located about 35km South west of Kano city. The project was designed to irrigate 22,000 Ha, out of which 15,000 Ha were developed. The contract for the completion of the balance of 7,000 Ha of the project was awarded to Messrs Gilmore (Nig.) Limited with a completion period of 42 months.

The pace of works was very slow and demand by the contractor for upward review of the contractual sum of the project was unacceptable to the Ministry, hence the recommendation was forwarded to the Federal Executive Council (FEC) for termination of the contract. This was considered and approved by FEC. Presently, the World Bank

Assisted Transforming Irrigation in Nigeria (TRIMING) project had intervened to rehabilitate the entire scheme.

2.9.4.4 **Middle Rima Valley Irrigation, Sokoto State.**

Contract for the project was awarded in April, 2007 to Messrs Gilmore Engineering Nigeria Limited and was revised in May, 2015. Total Irrigable land was **4333Ha**. A total of **2746Ha** has been completed and handed over to Sokoto Rima River Basin Development Authority (SRRBDA) with the farmers already cultivating as at May, 2019. Project was **85%** completed during the period under review and the process for the obtaining RETC II was on-going towards completing the outstanding 15% works.

2.9.4.5 **Rehabilitation of Adarice Irrigation Project**

The Adarice Project covering an area of over 5000 hectares was first established in 1962 as a farm settlement scheme in the present day Uzo-Uwani Local Government Area (LGA) of Enugu State by the defunct government of Eastern Nigeria through a financial aid provided by USAID.

The Contract was ongoing. The Africa Development Bank (AfDB) was still intervening in the rehabilitation of some of the components of the projects

2.9.4.6 **Komadugu-Yobe Channelization (Marawaji Flow Control Structure)**

Marawaji Flow Control Structure is situated within communities located in both Jigawa and Yobe state. Marawaji Flow Control Structures are structures that will control flow of water in a sustainable manner in the designated area.

The contract for the construction of the flow control structures was awarded in November 2010 with a completion period of thirty-six (36) months. As at the end of year 2020 the work was about 25% completed.

2.9.4.7 **Hadejia Valley Irrigation Project (HVIP) Phase 1 Stage 1**

Hadejia Valley Irrigation project lies in the Auyo and Kafin Hausa Local Government Areas of Jigawa State between the Hadejia River and its branch, the Kafin Hausa River around the Fadama town of Auyo. In year 2020, the project has attained about 86% completion while 15 out of the 19 sectors covering 5,300ha of the entire project have been completed.

2.9.4.8 **Construction of Bagwai Irrigation Project**

Bagawi (Wadari Dam) irrigation scheme is located within (Latitude 12° 05' 8" & 12° 10' and longitude 8° 08' & 8° 17') in Bagwai Local Government Area in the North Western part of Kano State. The Irrigation Scheme is comprised of Wataridam 83.05MCM capacity, with a development area of 1,563 hectares divided into sectors 1,2,3,4,5,6,7 and 8. Kano state government under the previous contract/project had completed 691ha of irrigation area which comprised of sectors 1,2,3,4 and 8.

The contract for the expansion and completion of Bagawi Irrigation Project was awarded to MessrsDantata and Sawoe Construction Company Nigeria Limited in July, 2005 and the Department of Irrigation and Drainage was working on the memo to BPP for a "No Objection Certificate" for the RETC for the completion of the project.

2.9.4.9 Lower Ogun Irrigation Project

The project is located in Obafemi Owode Local Government Area of Ogun State. The scheme is planned for the development of 12,000 Ha with implementation in four equal phases.

The contract for the 1st phase of 3000 Ha suffered serious delays arising from poor funding which in turn led to escalation of project cost. The overall physical achievement was 42%.

As at December, 2020, the project was being repackaged to enable upgrade of the system to Center Pivot System (CPS) and renewable energy.

2.9.4.10 Shagari Irrigation Project

The Shagari Irrigation Project is situated in Shagari Local Government Area of Sokoto State. The project will utilize raw water from the completed Shagari Dam for irrigation of about 220 hectares of farm land. The contract was awarded in May 2007 and was later revised to accommodate inflation. The progress of work to as at the end of 2020 was about 95%.

2.9.4.11 Center Pivot Irrigation Project

The Centre Pivot Irrigation Project was initially designed to supply and install 54 units of sprinkler system of 60 hectares capacity each adding a total of 3,240 hectares of irrigated farm land. It was to cover Kebbi, Zamfara, Katsina, Kano, Bauchi, Taraba, Nasarawa, Benue, Kogi and Cross River States, provide employment for over 7,000 farming families and enhance the food security for the nation. The overall percentage completion was 70%.

2.9.4.12 Owiwi Irrigation Project

The Project is located in Ewekoro LGA in Ogun State and the irrigation component was divided into two lots; Lot I of about 35 ha and Lot II of about 160 ha. Lot I had been completed which the overall completion level was about 98%.

2.9.4.13 **Zobe Irrigation Project Katsina State.**

The project has a total Irrigable land of **1200ha**. In the year 2020, the project was reviewed and repackaged toward achieving and completing a realistic 800ha of irrigable land.

2.9.4.14 **Zauro Polder Project**

The 10,500ha project is located within the fadama area of the Rima River, stretching from Birnin Kebbi to Argungu in Kebbi State. The contract for the construction of the project was awarded to Messrs C.G.C Nigeria Limited on May 22nd 2007 with a completion period of 60 months. The project was jointly funded by the Federal and the Kebbi State Governments on a 70% and 30% respectively. During the period under consideration, effort was being made to ensure that the project was jointly funded by the Federal Ministry of Water Resources in conjunction with the Sokoto-Rima River Basin Development Authority (SRRBDA) in addition to special intervention by the Central Bank of Nigeria (CBN).

2.9.4.15 **Chouchi Irrigation Project**

Choughi Irrigation Project is one of the projects handed over to the Federal Ministry of Water Resources by the defunct Petroleum (Special) Trust Fund (PTF). The project is in the flood plains of River Benue which lies between Jimeta and Yola in Adamawa State. With a command area of 1,200ha of land suitable for rice with other values of the provision of livestock and fisheries development. As at year 2020, the project had attained 65% completion level.

2.9.4.16 **Completion of Sabke Irrigation & Drainage Project**

Sabke Irrigation Project located in Mai'Aduwa Local Government Area of Katsina State is one of the projects transferred to the Ministry for completion from the defunct Petroleum (Special) Trust Fund (PTF) in 1999.

Contract for its completion was awarded to Messrs Doliz Brown (Nigeria) Limited, on July 1, 2009. The Project envisions the development of about 1,200 ha of irrigation farmland.

Construction works continued steadily on site and by the end of December 2012 to 2020, certified works were around 97 per cent completed.

2.9.4.17 **Gari Irrigation Project**

Gari Irrigation Project is situated along the Gari River and around Kazaure town of Jigawa State and Dambata town of Kano State, and was awarded by the defunct Petroleum Trust Fund (PTF) to Messrs CGC Nigeria Limited in September 1998 with a completion period of 3 years. It was intended to complete irrigation facilities for a gross area of 2113 ha of land by gravity.

A design review of the project was carried out in year 2017 and subsequently the contract for the completion of the project was signed by the Ministry with the Contractor Messrs CGC in March 2018. During the period under review the Contractor has since mobilized to site and work was in progress.

2.9.4.18 Donga Suntai Integrated Water Resources Project, Taraba State.

Project has a potential of **12,000ha** irrigable land out of which **6,000ha** has been designed.

A Due Process Certificate of “No Objection” has been obtained from the Bureau of Public Procurement (BPP) for the contract award, in favor of Messrs (GGC) Global Projects Nigeria Ltd. in May, 2020 and awaiting request for approval from Federal Executive Council (FEC).

2.9.4.19 National Inventory and Production of a National Compendium of Irrigation Projects

With the intention of the present government to diversify the Nigerian economy away from oil to agriculture through all year round cropping, the need arose to intensify efforts towards irrigated agriculture for increased production not only for local consumption, but towards generating foreign earnings. In order to attain meaningful and strategic progress in the next coming years on irrigation development, a data base is being articulated to provide first-hand information on all irrigation projects in the country as well as generate information for future planning for sustainable achievement.

Contract for the project was awarded in 2017 and the draft final report was submitted in January, 2020. The Consultant, Messrs Hi-Tek Production made a final presentation of the report in August, 2020 towards the production of an Irrigation Compendium.

2.9.4.20 Construction of Drainage Structure and Land Reclamation in Lagos State

The Construction of Drainage Structures and Land Reclamation in Lagos State was one of the projects captured in the Ministry’s year 2020 Appropriation Act.

A team comprising four Officers from the Irrigation and Drainage Department and an Officer from the Ogun-Oshun River Basin

Development Authority carried out a reconnaissance visit to the proposed site from 26th - 29th July, 2020 and thereafter submitted a technical report on the visit.

An approval by the Honourable Minister for the execution of the Study and Design as well as the Construction of Drainage Structure and Land Reclamation in Lagos State was on-going.

2.9.4.21 **Turunku Water and Irrigation Project, 100,000 Hectares of Land**

The Turunku Water and Irrigation Project is one of the new projects captured in the Ministry's year 2020 Appropriation Act.

The project was in the planning stage and a reconnaissance visits to the proposed site in order to kick start the project were still on-going.

2.9.4.22 **Jibiya Irrigation Project**

The Jibia Irrigation Project is located in Jibia local Government Area of Katsina State. The Project has a total irrigable area of 3,500ha made up of 140ha direct gravity while the remaining 3360ha is being commanded by pumping into two Night Storage Reservoirs.

The Federal Ministry of Water Resources is desirous of rehabilitating the project and a technical visit was carried out by Staff of the Ministry (Irrigation and Drainage Department and Climate Change Unit) as well as Staff of Sokoto Rima River Basin Development Authority (SRRBDA) to verify the status of the project from 4th – 7th August, 2020.

The Honourable Minister has directed that the Department of Irrigation and Drainage in collaboration with other Units of the Ministry and the River Basin Development Authority (RBDA) should set up a team to carry out the in-house Study and Redesign of Jibiya Irrigation Project towards achieving total overhauling and rehabilitation of the project and also incorporating solar power energy for the generators and water pumps.

2.9.4.23 **Erosion Control at Idokpo, Ogbagede, Ukwagba Road, Ohaukwu Local Government Area Ebonyi, Ebonyi State.**

Contract was awarded in May, 2018 to Messrs Flab Engineering Services Ltd. Work commenced on site in January 2020 and has attained 70% completion as at June, 2020.

2.9.4.24 **World Bank Assisted Transforming Irrigation Management in Nigeria (TRIMING) Project**

Towards achieving the goals of the National Agricultural Investment Plan (NAIP), the Federal Government of Nigeria applied for financing

from the World Bank and the French Development Agency (AFD) for the sum of USD 350 Million IDA Credit as well as AFD Credit of USD 100 Million for initial intervention in the Nigeria Irrigation and Water Resources Management Project (NIWRMP).

The strategic thrust of the TRIMING project is to achieve the rehabilitation and expansion of deteriorated or uncompleted irrigation and dam infrastructures on a viable and sustainable footing. This is expected to make considerable contribution to the agricultural production, employment generation, rural poverty reduction, improved access to irrigation and drainage services, and to strengthen institutional arrangements for integrated water resources management.

The Project has three (3) components namely:

- i. Irrigation Development and Management;
- ii. Water Resources Management and Dam Operations Improvement; and
- iii. Project Management and Monitoring and Evaluation.

The World Bank Board of Directors approved the IDA credit of US\$495.30 million for the TRIMING Project on the 19th June, 2014. The project implementation is to last for a period of seven (7) years. The project is to be implemented on the following schemes:-

- a. Bakolori Irrigation Scheme in Zamfara State.
- b. Middle Rima Irrigation Scheme in Sokoto State.
- c. Kano Irrigation Scheme, Kano State.
- d. Hadejia Valley Irrigation Scheme in Jigawa State.
- e. Dadin-Kowa Irrigation Scheme in Gombe State.

The contribution of Nigerian Government in the form of counterpart fund is US\$44.00 million or 8.88% of the IDA credit. The Federal Executive Council has approved the loan.

It is expected that the intervention when completed will add over 52,000 hectares of land to the existing irrigation area, while at the same time reducing the hazard potential of existing dams.

In addition, about 625,000 jobs would be created while 520,000 additional tonnes of rice and other cereals shall be produced through these investments annually.

The potential hazards related to safety issues on 6 large existing dams that were constructed over several decades will be addressed through comprehensive studies and rehabilitation.

2.9.4.25 **Achievements made by TRIMING Project in 2020**

Substantial progress was recorded on the project in 2020. Some of the projects were completed while other were at different stages of completion. The projects include: -

- i. Renovation of two (2) Receiver Stations, HadejiaJemaare River Basin Development Authority (HJRBDA) and Sokoto Rima River Basin Development Authority (SRRBDA) completed in 2020.
- ii. Installation and Commissioning of Equipment for four (4)Receiver Stations. (at NiMET, Nigeria Hydrological Services Agency (NIHSA), SRRBDA, HJRBDA Hqrts) completed, in 2020.
- iii. Procurement and installation of 9-Nos Manual Rain Gauge (MRG) and 19 Manual Ground Water Stations (MGS) - Ongoing.
- iv. In SRRBDA, feasibility report and detailed design for river training works of river Rima, river Keta and the flood protection dyke for the Falalia and Takakumi Sectors of the MRVIP have been completed. The procurement process for award of the works have been completed.
- v. Dam Safety Studies and Design of Dadin Kowa Dam in Upper BenueRiver Basin was signed on 20th May 2020 and was still ongoing.
- vi. Remedial and upgrade works for the Hadejia Barrage
- vii. Remedial and upgrade works for Tiga Dam, Challawa Dam and RuwanKanya Reservoir awarded together with Kano River Irrigation Scheme (KRIS) Irrigation contract) were ongoing.
- viii. Procurement of contract for dam safety remedial works of Zobe and Bakolori dams completed and waiting Bank's clearance.
- ix. Rehabilitation of 1,909ha were completed and handed over to the beneficiaries while additional1,834ha are also completed awaiting handing over atBakolori Irrigation Scheme (BIS).
- x. Rehabilitation of the Bakolori Irrigation Scheme (Lot I) was ongoing at about 60% physical progress.
- xi. Conversion of sprinkler to surface irrigation system at BIS (Lot II) is ongoing at about 50% physical completionand 27% financial progress.
- xii. Rehabilitation of KRIS was ongoing at 40% physical progress and about 33% financial progress.
- xiii. Rehabilitation and expansion of HVIS is ongoing with overall physical completion at about 66% and financialprogress at about 50%.

- xiv. Construction of Dadin-Kowa "Quick-Wins" Irrigation Scheme (about 2,000ha) commenced and ongoing at about 3.0%.
- xv. Full Feasibility Study and Detailed Design of Guyuk Irrigation Scheme(about 19,000ha) ongoing. Draft feasibility and detailed design reports submitted.
- xvi. About 839 Water User Association and Groups have been formed and/or strengthened at BIS and Middle Rima Valley Irrigation Scheme (MRVIS).
- xvii. Production of cadastral maps and WUA Registry lists for BIS, MRVIS, KRIS and HVIS were ongoing.
- xviii. A template for Development of water management Decision Support Systems to be used by all TRIMING Schemes (starting with KRIS & HVIS) ongoing.
- xix. About 46,000 number of farmers have been trained in scheme operation and maintenance in BIS and MRVIS.
- xx. Enactment of WUA Regulations Act under the National Water Resources bill through the National Assembly was ongoing.
- xxi. Suitable buildings secured and upgraded to accommodate community radio stations at all the five TRIMING intervention sites.
- xxii. Training of WUA members on operation, maintenance and sustenance of Community Radio stations was still in progress.
- xxiii. Several capacity building programmes (involving training and study tour for staff of FMWR, project, RBDA and scheme) supported in the following areas:
 - a. Trainings, seminars, workshops & study tours on Dam Safety Assurance and Dam Management.
 - b. Trainings, seminars, workshops & study tours on Management of Irrigation & Drainage Systems.
 - c. Reform communication: Leadership, Strategy and Stakeholder Alignment
 - d. Monitoring and impact evaluation.
 - e. Comparative study of legal & Institutional frameworks for dam safety management.
 - f. GIS based training on structuring and editing spatial data.

- g. Training on Use of Water Balance and Hydrodynamic Model.
 - h. Hydrometry training, workshops and Field activities
 - i. International training on Federation Internationale Des Ingenieurs Conseils (FIDIC) for representatives of the RBOAs and the PMU.
- xxiv. TRIMING Project provides support to RBDAs in the following areas:
- a. Establishment of modestly-equipped ICT centres including capacity building in the FMWR and 3 RBDAs.
 - b. Renovation/reconstruction of about 64 offices and residential buildings across the 5 schemes.
 - c. Mobility support to aid logistics of deployed staff and some irrigation scheme managers from RBDAs.
- xxv. Several activities and publications on consensus building and supporting the change process:
- a. A comprehensive communications strategy report was prepared and was being implemented.
 - b. Several live phone-in programmes at some radio and television stations, courtesy visits to all key stakeholders as well as door - to - door sensitization campaigns carried out at the five Intervention schemes.
 - c. Baseline video documentaries as well as instructional videos to demonstrate needs for behavioural change in all the schemes were produced.
 - d. Appointment of youth vanguards as change agents in all the schemes.
 - e. Several workshops and seminars have been carried out to sensitize the general public and the target stakeholders on TRIMING Project activities.
 - f. A spectrum of identification materials (Newsletters, Reflective Safety Jackets, roll up flex Banners, back drop flex banners, posters, flyers, billboards, stickers, newsletters etc) and billboards have been designed, produced and distributed/installed across the schemes.
 - g. Implementation of consultancy for Evaluation of the Effectiveness of Behavioral Change Communication (BCE) Techniques for TRIMING Project is being monitored.

- xxvi. A Grievance Redress Mechanism (GRM) had been developed for all the TRIMING schemes.
- xxvii. The following milestones have been achieved under the Project Management and M&E component of the Project:
 - a. Development of an Information System with the following modules: Basin Level Information System, Scheme Level Information System, M&E Application and ERDMS.
 - b. The development of application for digital dam repository for Nigerian dams including capacity building.
 - c. Appointment and capacity building of MIS and M&E officers selected from staff of the RBDAs to man the TRIMING Project MIS offices.
 - d. Set up of a robust M&E system to monitor and evaluate the project and report progress and learning.
 - e. Baseline, ex-ante impact evaluation, mid-term evaluation as well as updating of data collection for M&E up to end of December, 2020 completed.
- xxviii. Environmental and Social Impact Assessment (ESIA), Resettlement Action Plan (RAP) and Grievance Redress Mechanism (GRM) system have been prepared and disclosed for all TRIMING schemes.

2.9.4.26 **Water Users Association (WUAs) Workshop**

Regional Workshop to establish/strengthen Water Users Association was held in Enugu State from 18th – 22nd November, 2020.

2.9.4.27 **Collaboration with Food and Agriculture Organization (FAO)**

The aim of this project is to put in place an appropriate instrument with complementary implementation strategy to facilitate and promote private sector investment in the irrigation sub-sector, the Federal Ministry of Water Resources (FMWR) in February 2013 made a request to the Food and Agriculture Organisation of the United Nations (FAO) for technical and financial assistance in the preparation of an Irrigation Policy and Strategy. The Policy has now been finalized and presented to the general public.

Implementation of the policy document is intended to improve irrigation and drainage development and management in Nigeria in order to achieve the broad objectives of food and raw materials security, increased employment, wealth creation and poverty

alleviation, and greater contribution to GDP, foreign exchange reserve and government revenue.

Action programmes have been extracted from the Policy for a progressive implementation.

2.9.4.28 **Collaboration with Federal Ministry of Agriculture and Rural Development (FMARD)**

The Ministry through the Department of irrigation and Drainage is in collaboration with the FMARD in the development and utilization of water resources infrastructure for agricultural development to enhance food security and wealth creation. From the water resources point of view, it was concluded that 20 Irrigation Projects, 18 Large and Medium Dams Projects and 20 MDG Small Earth Dam Projects, would suffice to jumpstart the collaborative efforts. The Federal Ministry of Agriculture and Rural Development (FMA&RD) also identified areas of intervention with respect to facilitation of the provision of personnel in extension work in agriculture, tractors and other farm implements, fertilizers, herbicides, pesticides, insecticides, etc. The work plan for the implementation of the obligations of the MOU has been prepared.

2.9.4.29 **Nigerian National Committee on Irrigation and Drainage (NINCID)**

The Department hosts the Secretariat of Nigerian National Committee on Irrigation and Drainage (NINCID), an affiliate of the International Committee on Irrigation and Drainage (ICID) with headquarters in New Delhi, India. This provision avails our Engineers the opportunity of being abreast with modern practices in irrigation, drainage and flood control as well as platform to share ideas with professional counterparts, local and foreign. Nigeria's financial commitment to the membership is annual subscription of US\$1,800.

2.10 **DEPARTMENT OF WATER QUALITY AND SANITATION**

2.10.1 **Introduction**

The Department of Water Quality Control and Sanitation is one of the Technical Departments of the Ministry. It is charged with the responsibilities of managing the nation's water quality and promotion of water sanitation and hygiene in addition, the Department is also

charged with the responsibility of management of waste water in the peri-urban and urban cities.

The Department has a staff strength of one hundred and thirty-one (131) officers

2.10.2 **The Mandate of the Department**

The mandate of the Department within the overall mandate of the Ministry is to formulate policies and guidelines, and overall management of matters affecting Water Quality Control, Water Sanitation, Hygiene Promotion and Waste Water Management and reuse. In specific terms the functions to the Department include the following:

- i. to provide a national organization which will increase knowledge of Water Quality and Sanitation, establish standards, review technology and encourage advances in water quality laboratory, operation and maintenance of wastewater treatment plants and their associated discharges by collecting and disseminating relevant information and addressing related technical questions;
- ii. to supervise and monitor all the completed and on-going National Water Quality Reference Laboratories across Nigeria and institutionalize water quality analysis and procedures;
- iii. carry out water quality surveillance and ensure safety of drinking water supplies through the enforcement of the Nigerian Standard for Drinking Water Quality (NSDWQ) NIS: 554 (2015) in collaboration with the Standard Organization of Nigeria (SON);
- iv. river and stream studies and modeling to determine contamination loads and stratification levels in different periods of the year and prevent eutrophication;
- v. trans-boundary water quality monitoring and maintain collaboration with Niger Basin Authority (NBA) and Lake Chad Basin Commission (LCBC) on water quality control monitoring network for the River Niger system and Lake Chad basin;
- vi. institute Quality Assurance and Integrity Management in water quality control laboratories through the adoption of peer review mechanism on UNEP/GEMs, SON and IPAN standards;
- vii. watershed management to identify point source and non-point source pollution and developing remedial and control measures to safeguard water sources;
- viii. formulation and implementation of appropriate guidelines, policies and programme of planning, development and maintenance of water quality control networks undertaken by

RBDAs, Water Boards and private agencies throughout the country;

- ix. safeguard and support public health through organized drinking water quality surveillance and water safety plans;
- x. maintain and support the National Task Group on Sanitation and promote the implementation of Community Led Total Sanitation in Nigeria;
- xi. support National Sanitation and Hygiene Promotion through advocacy and capacity building of the State Agencies;
- xii. drive the National Sanitation Promotion and Advocacy including the Global/National Hand-washing Campaigns;
- xiii. develop a National Water Sanitation Policy;
- xiv. promoting the in-house capability of States and Local Government Councils through Advocacy and enlightenment in sanitation, improved hygiene, water safety plan and sanitation at village/community level;
- xv. develop a National Policy for urban sanitation and wastewater management and reuse;
- xvi. promote, undertake the planning, design and supervision of the construction of urban sanitation and wastewater treatment plants in partnership with the States, Local Government Councils and the Private Sector;
- xvii. carry out WASH intervention on Disaster Risk Reduction measures in emergencies, floods, conflict zones and IDPs through control of water borne diseases;
- xviii. preparation of National WASH Humanitarian Response Plans (HRP) and interventions;
- xix. institutionalize WASH Tracking and Surveillance, data management, publish reports, promotion posters, hand bills on water and sanitation and hygiene, water quality atlases, maps, etc;
- xx. enhance international cooperation with partners in scaling up water sanitation and hygiene issues and implement National commitments to international development policy framework;
- xxi. Develop robust computer-based systems/ICT and reporting of national developments and progress in water sanitation and hygiene to the international community;
- xxii. capacity building in water quality sanitation and safety management, participation at seminars, workshops and conferences in such related matters; and

- xxiii. to carry out studies and provide technical manuals and guidelines on topical water resources subjects as: - water safety plans, performance monitoring, water quality modeling, environmental impact assessment and public information dissemination.

2.10.3 **Activities/Programmes Implemented by the Department in 2020**

The activities/Programmes carried out by the Department during the period under review were as follows:-

2.10.3.1 **Akure Laboratory**

The National Water Quality Reference Laboratory Akure monitors open water bodies in the part of Western Littoral HA6 (Ondo, Ekiti, and Edo States) and Niger South HA5 (Delta and Kogi States).

A total of 45 water bodies (30 rivers and 15 dams) were sampled within the catchment area and total of 27 parameters analyzed.

2.10.3.2 **Lagos Laboratory**

The National Water Quality Reference Laboratory Lagos monitors water quality in four states (Kwara, Lagos, Ogun and Oyo States). These states fall under the Niger Central (HA2) and Western Littoral Hydrological Areas (HA6).

A total of 39 sampling points which comprised 21 rivers and 18 dams/lakes were sampled majority of which are abstraction points and rivers in which effluents are discharged a total of 27 parameters analyzed.

2.10.3.3 **Minna Laboratory**

National Water Quality Reference Laboratory Minna covers five (5) states (Niger, Kaduna, Nasarawa, Plateau states and FCT Abuja) which fall under Niger Central (HA-2) and Lower Benue (HA-4) Hydrological Areas.

Designated sampling points were visited during the period. 34 samples were collected and analyzed due to security challenges. Nineteen (19) Dams and Fifteen (15) River water samples were collected. A total of 29 parameters analyzed.

2.10.3.4 **Enugu Laboratory**

The laboratory monitored open water bodies in ten states (Abia, Anambra, Akwa-Ibom, Bayelsa, Benue, Cross River, Ebonyi, Enugu, Imo and Rivers).

54 River samples and 4 open water-bodies were collected and analyzed.

2.10.3.5 Gombe Laboratory

The Gombe Laboratory monitors open water bodies in parts of Upper Benue HA3 (Adamawa, Taraba, Gombe, parts of Plateau and Bauchi states) and Chad Basin HA8 (Borno, Yobe, Jigawa, Kano and Bauchi states).

A total of 49 locations (35 rivers and 14 dams) were sampled and analyzed within the catchment area.

2.10.3.6 Kano Laboratory

National Water Quality Reference Laboratory Kano monitors water quality in seven states (Kebbi, Sokoto, Zamfara, Katsina, Kano, Jigawa and Bauchi States). These states falls under the Niger North (HA1) and Chad Basin (HA8) Hydrological Areas.

A total of 59 sampling points which comprised 26 rivers and 33 dams/lakes were sampled. A total of 30 parameters were analyzed.

2.10.4 Current Status of Nigeria Open Water-bodies

Status of open water-bodies currently in Nigeria is classified as not good with rating of 67% according to the overall calculated percentage Compliance. According to Water Quality Index, the quality of open water-bodies in Nigeria is classified as poor with intermediate risk assessment level.

2.10.5 Update on National Water Quality Reference Laboratory's Partial Commercialization

Partial commercialization of the services of the Laboratories and revenue generations for Nigeria Government through Remita commenced by all the six water quality reference laboratories in the year 2020 and the revenue generated were as listed in the following table

Laboratories	Amount Generated for the Year 2020 (N)
Lagos	1,527,500.00
Kano	2,576,000.00
Enugu	4,410,000.00
Akure	3,202,500.00
Gombe	2,425,000.00
Minna	1,595,500.00
Grand Total	15,738,500.00

2.10.6 Clean Nigeria Campaign

The 'Clean Nigeria: Use the Toilet' campaign aimed at ending open defecation in the country by 2025. According to the national roadmap, this is expected to create a mass movement against open defecation across the country, which will in turn trigger demand creation with the mobilization of households to provide their sanitation facilities, and relevant government institutions and the private sector providing sanitation facilities in institutions and public places such as schools, health care centres, parks and markets, in order to realize total coverage and sustainable access for the populace.

Partnerships are also being fostered with relevant agencies under the Clean Nigeria Campaign, one of such is with the National Orientation Agency which leverages on its nationwide structure through the communication, Orientation and Mobilization Officers (COMOs), in disseminating the key messages of the Clean Nigeria Campaign. A nationwide state level sensitization/orientation workshop for the COMOs on the Campaign was rolled out and so far, 25 state events have been held which has generated a ripple effect in each of these states. The Department was also working with the Organized Private Sector in Water, Sanitation and Hygiene (OPS-WASH) to leverage private sector investment to the sanitation sub-sector.

A team (FMWR and UNICEF) visited four companies; UNILEVER, Stock Exchange, IHS and Cornerstone Insurance. The companies expressed their willingness to be part of the campaign.

The Steering Committee for the Clean Nigeria Campaign was inaugurated under the chairmanship of the Vice President with membership across representatives of relevant stakeholders to provide technical oversight to the implementation of the Campaign.

2.10.7 Water, Sanitation and Hygiene (WASH) and Open Defecation Free (ODF) Campaign: Potential Positive Impacts on the Nigerian Economy

According to the 2018 Water, Sanitation and Hygiene (WASH) National Outcome Routine Monitoring (NORM) survey, national access to basic sanitation in Nigeria in line with the SDG 6 target for sanitation is 41.5% (80million). Also 18.2% of the population amounting to 35 million still use unimproved sanitation facilities and 15.9% (30 million) use toilet facilities shared by 2 or more households. An estimated 47million people (24.4%) practice open defecation, making Nigeria the top ranking country in Africa with the highest population of people practicing open defecation.

The mobilization of households to take the 47million Nigerians from practicing open defecation is expected to lead to the construction of over 9.4million toilets, using the average number of 5 persons per household. Also, moving households with unimproved facilities to

improved facilities will mean the construction or upgrading of additional 16million new toilet facilities. In addition, the number of institutional and public toilets required to meet the sanitation needs of the country is estimated at over 40,000.

The 9.4million toilets required to meet the Open Defecation Free (ODF) target of 2025 are expected to be constructed over the next 6 years at an average of 1.5million toilets per year, while the 16million toilets required to achieve the SDG target over the next 10 years will translate to 1.6million toilets per year.

In ongoing implementation of sanitation programmes, Toilet Business Owners (TBOs) are being trained to provide services to households for construction of new toilet facilities or upgrade existing facilities to improved ones, this has become an evolving market. Under the sanitation marketing initiative in 6 States, over 400 TBOs have been trained, who in turn engage marketers and artisans in their business. An estimated 40,000 household toilets have so far been built by over 8,000 artisans engaged by the TBOs.

2.10.8 **Summary of Activities carried out during the period and achievement recorded under review in respect of this project**

- a. Additional 22 LGAs as ODF making 38 LGAs altogether
- b. Training of State Desk officers for CNC & sensitization for Steering Committee Focal Officers
- c. Inauguration of Steering Committee by the Vice President and hosting of 2nd meeting
- d. Increased Advocacy to States, Heads of Service, State Permanent Secretaries
- e. Engagement with media, NOA, Actors Guild, NURTW, EHORECON, Market men & Women Association, Nigeria Hotels Ass. Etc.
- f. More engagement with Private Sector (Project FLUSHIT)
- g. Increased CNC activities in States;
- h. 25 State campaign flag off;
- i. Fund Mobilization (World Bank, SHF etc)
- j. Commemoration days observed (Global Hand Washing Day, Menstrual Hygiene Day, World Toilet Day)
- k. More capacity building for NTGS members on the National Protocol for Verification, Certification & Validation
- l. Technical support to States
- m. Launch of SHF

- n. Exit meetings on exit of SHAWN Programme
- o. Exit meeting for RUSHPIN programme

2.10.8.1 **Achievements**

- i. The LGSC Chairpersons representing Benue and Ekiti States were sensitized to provide plans for the formal institutionalization of WASH Departments in their LGAs using Kano and Plateau as good examples.
- ii. 264 Staff of the WASH Departments from Plateau, Kano, Ekiti and Benue States trained on how to develop partnership and collaborate with other institutions and sectors such as education and health; and civil society organizations to deliver WASH projects.
- iii. Trained officers of the 81 newly established LGAs WASH Departments on sanitation and hygiene practices and the methodologies for behavior change motivation.
- iv. The construction of sanitation facilities in the North-East and West were at 70% level of completion.
- v. Mobilized communities across the LGAs to register and participate in WASH Voice Monitoring Surveys.
- vi. Completion of four quarters of Open water-bodies monitoring in all the eight hydrological Area (HA) in Nigeria towards achieving the proportion of water bodies with good quality (SDGs 6.3)
- vii. Formation of a Committee on the development of Water Quality Management Roadmap.
- viii. Commencement of Development of Ambient Water Quality Standard
- ix. Development of Irrigation Water Quality Standard in progress
- x. Rehabilitation and reorganization of the six (6) existing National Water Quality Reference Laboratories (Akure, Enugu, Gombe, Lagos, Minna and Kano) towards achieving Water Quality Targets in SDG 6
- xi. Equipping and furnishing of Two (2) National Water Quality Reference Laboratories at Sokoto and Maiduguri
- xii. Generation of revenues by all the six laboratories through Remita
- xiii. Revitalization of National Core Group on Water Quality
- xiv. More LGAs have been declared open defecation free brings the number of LGA wide ODF to 387.

- xv. Approval of FEC for the roll out of the National Programme to End Open Defecation in Nigeria tagged “Clean Nigeria: Use the Toilet” Campaign.
- xvi. Setting up and official launch of an office complex as the operational base for the Clean Nigeria Campaign Secretariat.
- xvii. Increased ownership of improved sanitation facilities by households through sanitation marketing.

2.10.9 **Water Quality/Surveillance Activities/Achievements**

- i. Survey Design for Nationwide Assessment of drinking Water Quality was finalized.
- ii. Validation of Road Map for Water Quality Management approved
- iii. 2019 Report on Monitoring of Rivers and Water Bodies Activities produced and disseminated to Stakeholders at the Regular Meeting of the National Council on Water Resources (NCWR).
- iv. Process for the accreditation of National Quality Reference Laboratories for ISO/IEC17025:2017 in accordance with international best practice had commenced.
- v. The National Water Quality Referenced Laboratories (NWQRL) routine quarterly ambient water quality monitoring across the 8 hydrological basins in the country was carried out.
- vi. The newly built NWQR Laboratory Maiduguri had commenced Water Quality Testing Operation and the Laboratory are available for public usage.
- vii. Exchange Learning visits between the NWQR Laboratories (Akure, Enugu, Gombe, Lagos, Minna and Kano) to enhance capacity of the Analysts for effective service delivery were carried out.
- viii. Continued co-ordination of Water Quality Core group activities.
- ix. The inception report was organized for members of the core group and other critical stakeholders in order to keep them abreast with their institutional roles and responsibilities on water qualities in the country.
- x. Compliance and enforcement of Nigeria Standard for Drinking Water Quality (NSDWQ) NIS-554-2025 was intensified during the year review.
- xi. Supported States in the development of the Community Water Safety Plan (CWSP).

- xii. Capacity building of Water Service Providers and Technical officers on Urban Water Safety Plan (WSP).

**2.10.10 National Task Group on Sanitation (NTGS)
Meetings/Achievements:**

The NTGS is a national coalition platform with membership across government, development partners, media and CSOs. The Group holds its meeting on a monthly basis and had held 12 meetings within the reporting period. The meetings received report on activities carried out by partners and deliberated on emerging issues as relate to the sector. Joint activities were also planned and executed by members.

2.10.11 2020 Global Hand Washing Day Commemoration

The day was celebrated by the Ministry in collaboration with the National Task Group on Sanitation with the support of some Partners in the Sector. The theme for the year was- “Hand Hygiene for All”; while activities that marked the Day included a joint press briefing and sensitization on hand washing in different locations within six Abuja Area Councils

2.10.11 Sanitation Activities



2.10.11.1 Urban Sanitation/Achievements:

- i. Monitoring of the conditions of the Anaerobic Wastewater Treatment Plant at Zoo road, Kano State.
- ii. Conducted a Nation-wide Baseline Assessment of Waste water and Faecal Sludge Facilities of three States in each of the three Geopolitical zones (Rivers, Akwa-Ibom, and Delta) and Lagos, Ogun and Oyo State for the South West zone

- iii. Assessment of safety measures applied along the sanitation valuechain in eliminating the hazards involved in handling of excreta and Wastewater.
- iv. The first National Stakeholders meeting for the implementation of Urban / Peri –Urban Community Led Total Sanitation
- v. One – day validation workshop on Wastewater Management policy in Nigeria on the 15th of December, 2020



2.10.11.2 **WASH Tracking, Response and Collaboration**

- i. Held Monthly National WASH Sector Coordination meeting
- ii. Launched 3-year Humanitarian Response Plan (HRP 2019-2021)
- iii. Under took a Joint WASH Sector Monitoring and Assessment visit in response to Cholera outbreaks and establishment of States WiE Working Group in Kano, Katsina, Taraba, Jigawa, Adamawa, Kaduna, Sokoto, Zamfara, Kebbi and Ebonyi States.
- iv. WASH Sector Emergency Working Group intervention visit due to Cholera Outbreak in Ogun State 11 – 14th February, 2020
- v. 51 Nos contracts already issued for 102 Nos compartment of Sanitation and Hygiene facilities with borehole in 22 States across the country.
- vi. Initiated the construction of a total of 259 compartments of Sanitation and Hygiene facilities with 7 facilities per State under COVID-19 Intervention program.
- vii. Awarded Contract to 111 Nos. of contractors and the contractors had been mobilized to sites under COVID-19 Intervention program.
- viii. Total of 370 Sanitation and Hygiene facilities constructed almost completed
- ix. Federal Ministry of Water Resources Collaborated with Development Partners to develop WASH Response guidelines to COVID-19
- x. 9 Nos Sanitation and Hygiene facilities with Emergency Pour Flush latrines constructed in Jigawa States

2.10.11.3 **WASH Tracking**

- i. Conducted baseline survey in 3 LGAs in Ogun State
- ii. Trained of LGAs Officers on WASHIMS Platform
- iii. Trained 3 States (Borno, Adamawa & Yobe) Staff/ LGA officials on implementation of WASH Bottleneck Analysis Tools (WASHBATs)
- iv. Participated in the annual WASHNORMS Survey and led the development process for the 2018 WASH Account Report.
- v. Produced IEC materials for Awareness Creation on Hand Washing.
- vi. Produced of Water Quality Control and Sanitation 2019 Annual Report
- vii. Sensitized 24 Officers in the Southern and Northern River Basin Development Authority (RBDAS) On Bio-Fortified Crops.
- viii. Developed and produced the 2018 Nigeria WASH Account Report in collaboration with relevant Stakeholders.
- ix. Launched the 2019 WASH-NORM (II) launched on 5th November 2020

Pictures of the activities

	
<p>Hygiene Promotion at Bakin-Kasuwa, Ardo kola LGA, Taraba State</p>	<p>Wash Emergency advocacy visit to Honourable Commissioner of Water Resources in response to cholera outbreak in Taraba State</p>

	
<p>Sensitization Campaign At Inyagu Community, Ohaukwu LGA, Ebonyi State.</p>	<p>Water Sample Collection For Analysis At Amachi Community In Ebonyi State</p>
	
<p>Constructed Sanitation And Hygiene Facility In IDP Wassa, FCT</p>	<p>Constructed Sanitation And Hygiene Facility At IDP Waru Village, FCT</p>

2.10.11.4 **WASH Voice Services Management:**

- i. Trained WASHCOMs members on the Expanded Guidelines and Facilitation of Community WASH Register (cWASHr) in Gagarawa and Kiyawa LGAs of Jigawa State from 23rd March - 21st April, 2020 at Jigawa Hotel Limited, Dutse, Jigawa State.
- ii. Organized refresher training of WASHCOMs on Expanded Guidelines and Facilitation of Community WASH Register (cWASHr) in Gagarawa and Kiyawa LGAs of Jigawa State from 23rd March - 21st April, 2020 at Jigawa Hotel Limited, Dutse, Jigawa State. This comprised FMWR officials, UNICEF officials, States RUWASSA officials, LGAs WASH officers, WASHCOM Federations members, Facilitators and Resource Person.

Participant at the Workshop on cWASHr and WASHCOM Training in Dutse, Jigawa State



Facilitators guiding the participants during the Planning Meeting in Dutse, Jigawa State



Participants paying rapt attention to the facilitators

2.10.11.5 **Water Quality Surveillance**

A team of officers from the Ministry in collaboration with Federal Ministry of Health and National Water Quality Reference Laboratories, carried out water quality surveillance exercise in Enugu and Ebonyi States in December 2020. The purpose of this surveillance was to ascertain that water producers supply drinking water in accordance with the Nigerian Standard for Drinking Water Quality NIS-554-2015. The exercise involved Water Quality Analysis and Sanitary Inspection of four Water Treatment plants namely; Oji River, Iva Valley, Ajali (located at Enugu State), and Ezilo (located at Ebonyi State).

2.10.11.6 **Findings from the exercise were as follows:**

- i. that the Water Treatment plants and distribution networks were obsolete;
- ii. some of the Water Works lack adequate laboratory facilities; and

- iii. the water quality analysis recorded moderate to good compliance to the Standard (NSDWQ) as follows; Oji River (86.1%), Iva Valley (86%), Ajali (85.9%) and Ezilo (79%).

2.10.12 **Monitoring Activities**

The Six National Water Quality Reference Laboratories (Akure, Enugu, Gombe, Kano, Lagos and Minna) embarked on the rivers and open waterbodies monitoring activities in Nigeria from January to December 2020.

Total no of 1,120 samples were collected and analyzed from Rivers, dams and lakes at various locations in Nigeria on a fixed and agreed dates by all the laboratories to ensure uniformity and improvement in the data integrity.

2.10.13 **Water Quality Control**

Physicochemical and microbiological parameters were analyzed and the results compared with FMWR National Target Values set for Ambient Water Quality.

All the core parameters specified to achieve indicator 6.3.2 were taken into consideration with other progressive parameters analyzed.

24 parameters (Core and Progressive) were selected to calculate % Compliance while twenty three (23) parameters (Core and Progressive) were used to calculate the Water Quality Index by all the six laboratories from the total number of parameters analyzed. The selected technical parameters for the calculations are the same except Maiduguri Laboratories.

2.11 **DEPARTMENT OF WATER SUPPLY**

2.11.1 **Introduction**

The mandate of the Department of Water Supply is to contribute to the sector development through policy, strategy, programmes and projects development and implementation for Urban, Small Towns and Rural areas of the country.

2.11.2 **Structure**

The Department is headed by a Director who is assisted by three (3) Deputy Directors. The Department has four (4) Divisions namely; Urban Water, Small Town Water, Technical Support Services, and Collaboration and Partnerships.

2.11.3 **Staff strength**

The total staff strength of the department stood at one hundred and thirty-seven (137) as at 31st December, 2020

2.11.4 **Functions**

The functions of the Department include the following:

- i. Formulation and Implementation of Water Supply policy, strategies and Guidelines in consultation with relevant Department and Agencies at the Federal and State levels.
- ii. Preparation and Implementation of Federal Government intervention on Water Supply.
- iii. Development and Implementation of Water Supply Sector Reform.
- iv. Co-ordination, Monitoring, Evaluation and reporting on the Water Supply sub-sector;
- v. Promotion of collaboration and partnership among all stakeholders; and
- vi. Promotion of Water Supply Research and Technologies.

2.11.5 **Programmes and projects of the Department**

Programmes/Projects of the Department are structured along three demographic groupings of Urban Water Supply, Small Towns Water Supply and Rural Water Supply as well as programmes/projects funded by some Development Partners as follows:

2.11.5.1 **Urban Water Supply:**

This refers to water supply to areas with population more than 20,000 people with adequate social infrastructure. It is classified into the following two categories:

- i. Treasury Funded Urban Water Supply Intervention Projects
- ii. Urban Water Sector Reform Programme (UWSRP) being funded by Development Partners (World Bank, French Development Agency, African Development Bank & USAID).

2.11.5.2 **Small Towns Water Supply:**

This is Water Supply for areas with population of 5,000 to 20,000 people that have moderate access to other social infrastructure. It is also categorized into two viz:

- i. Treasury Funded Small Towns Water Supply Intervention Projects
- ii. Donor Funded Small Towns Water Supply and Sanitation Programme (STWSSP)

2.11.5.3 **Rural Water Supply:**

This covers areas with population of less than 5,000 people with little or no social infrastructure: It is also categorized according to the source of funding as follows:

- i. Treasury Funded Rural Water Supply Intervention Projects
- ii. Donor Funded Rural Water Supply Projects (African Development Bank Assisted – Rural Water Supply and Sanitation initiative, FGN/JICA – Assisted Rural Water Supply Programme, FGN/UNICEF – Assisted Rural Water Supply Programme, FGN/China – Assisted Rural Water Supply Programme)
- iii. Partnership for expanded Water Supply, Sanitation and Hygiene (PEWASH).

2.11.5.4 **Urban Water Supply Schemes**

At the inception of this Administration, a total of 35 Nos, Urban/Semi-urban water projects (uncompleted or abandoned) were inherited. This prompted a technical Audit to ascertain their technical and financial viability. Based on their outcome of the Audit, the projects were prioritized and the achievements made on the prioritized projects and other new projects were as follows:

2.11.6 Achievements

The major achievements of the Department in 2020 were as follows:

S/N	PROJECT TITLE	STATE	LGA	COMMENCEMENT YEAR	PROJECT STATUS
I	Damturu Water Supply Project, Yobe State.	Yobe		2020	Ongoing
ii	Ezealapkaka Water Supply Project	Imo	Ezealapkaka	2020	Ongoing
iii	Construction Of Water Supply For Akanu In Abia State	Abia	Akanu	2020	Ongoing
Iv	Construction Of Water Supply For Gashua In Yobe State	Yobe	Gashua	2020	Ongoing

2.11.7 Small Towns Water Supply (STWS)

Small Towns Water Supply projects mainly rely on groundwater extraction followed by water treatment where necessary. The water is stored primarily in Elevated Water Storage Tanks (EWSTs) of 100m³, 45m³ and 22.5m³ capacities as may be required before serving the beneficiaries through limited distribution networks. The summary of achievements is presented in the table below:

SMALL TOWNS AND WATER SUPPLY SCHEMES FOR UNIVERSITIES, COLLEGES OF EDUCATION AND POLYTECHNICS					
S/N	Project Title	Location		Commencement Date	Project Status Ongoing or Completed
		State	Location		
1	EC- Assisted Small Towns Water Supply & Sanitation Programme (Rehabilitation/Upgrade of Banjiram Water Supply Project In Adamawa State)	Adamawa	Banjiram Town	2020	Completed
2	Ministerial Water Supply Intervention or Disaster Risk Management	Jigawa	23nos. Sites In Jigawa State	2020	Completed
3	Construction of Solar Powered Boreholes in Bade/Jakusko Federal Constituency	Yobe	1. Jauro Nuhu Lafiya Riga 2. Gaya Moto Lafiya District, Jakusko LGA 3. Dagona Town Bade LGA	2020	Completed

4	Construction of Solar Powered Boreholes Across Yobe East Senatorial District, Yobe State	Yobe	1. Dapchi, 2. Gujba, 3. Buni Gari, 4. BuniYadi, 5. Babangida, 6. Govt. girls Sec. Sch. Damaturu	2020	Ongoing
5	Construction of Solar Powered Boreholes Across Fune/Fika Federal Constituency, Yobe State	Yobe	1. AbujanTalakawa, Damagum, Fune LGA 2. Bulabulum, Gadaka Ward, Fika LGA 3. Jauro Modi Mashio Ward, Fune LGA	2020	Ongoing
6	Construction of Solar Powered Boreholes Across Damaturu/Gujba/Gulani Federal Constituency, Yobe State	Yobe	1. Ngeljuli Village, Gujba Ward, Gujba LGA 2. Gurum village, Bumsa Ward, Gulani LGA 3. NayinawaTsallake, Damaturu LGA	2020	Ongoing
7	Construction of Solar Powered Boreholes in Adamawa North	Adamawa	Vintim Community in Mubi South LGA	2020	Ongoing
8	Construction of Two (2) Number Motorised Powered Boreholes in Katagum, Shira, Giade, Itas Gadau, Zaki, Gamawa, Jamaare Local Government Areas In Bauchi North Senatorial District	Bauchi	8 Location in Bauchi North Sen istrict	2020	Ongoing
9	Drilling Of Motorized Boreholes in Various Locations in Katsina North Senatorial District	Katsina	9 Locations in Katsina North Sen. District	2020	Completed
10	Construction Of Water Supply Project for Schools, Transport Parks, Markets In Lagos State	Lagos	12 Locations in Lagos Mainland Area	2020	Ongoing

2.11.8 **Rural Water Supply (RWS)**

The Rural Water Supply, under the Administration, has been targeted at North East States, Internal Displaced People across States and requests from some Federal Establishments (NYSC, Customs, Immigration, NSCDC etc.) for assistance. The projects that were awarded and completed during the period under review are providing improved water supply to over 500,000 people across the country in addition to providing jobs to many people.

2.11.9 **Partnership for Expanded Water Supply, Sanitation and Hygiene (PEWASH) Programme**

A major milestone achievement for Rural Water Supply and Sanitation Improvement is the development and institutionalizing of the PEWASH Programme. The PEWASH Programme is a collaborative/partnership intervention model between major stakeholders, including the Federal Government, State Governments, Local Governments, Communities,

Donor Agencies/ Development Partners and the Private Sector towards achieving the SDGs in Nigeria.

The PEWASH Strategy (2016 – 2030) was formally launched by the Vice President, His Excellency Prof. Yemi Osinbajo, GCON, in November 2016. So far, the following progress/achievements have been recorded under the programme:

- i. Thirty-three 33 States have signed the PEWASH Protocol (PP), expressing interest to partner with the FMWR in the Programme.
- ii. The PEWASH programme has successfully rehabilitated, upgraded and constructed water supply facilities in 1,197 communities in Kano, Ogun and Ondo states, as well as carried out capacity building at federal, states and LGA levels.
- iii. 118 contracts for construction/rehabilitation/upgrading of water supply facilities in ten (10) States (Imo, Katsina, Jigawa, Plateau, Zamfara, Sokoto, Ondo, Osun, Delta and Bauchi) had been awarded as part of the project scale up.

2.11.10 **National Wash Action Plan**

The Ministry, in collaboration with some Development Partners and State officials, developed the National WASH Action plan in 2018 to provide the needed roadmap for sustainable water supply and sanitation towards achieving SDG targets 6.1 & 6.2. this has enabled the Ministry to attract the highest level political commitment and attention ever in the WASH sector. The document was launched by President Mohammed Buhari, GCFR on November 8, 2018 during which he publicly declared a ‘State of Emergency on the WASH Sector’. The action plan which was earlier approved by the Federal Executive Council was followed up with a national workshop on 25th – 26th March, 2019 that prepared the needed platforms for its implementation.

The Action Plan includes a 13-year revitalisation strategy with the aspiration of **“Ensuring access to water and sanitation for all”** by the year 2030 through a strengthened Federal-State Partnership. Achievements so far recorded are as follows:

- i. So far, 13 (Thirteen) States have embraced the NAP and declared a “State of Emergency” namely: Ondo, Ekiti, Osun, Taraba, Delta, Ebonyi, Bauchi, Plateau, Jigawa, Niger, Imo, Benue and Ogun.
- ii. Series of retreats and workshops had been held with the important outcomes:
- iii. Development and Guidelines and Terms of Reference for States’ participation in the Technical Assistance Programme:

- iv. Development of Curriculum for M.Sc. in the focal Universities under NAP-CAP Programme in collaboration with NWRI-Kaduna and IHE-Delft, Netherlands;
- v. Technical Assistance for the development of National WASH Fund is currently ongoing.

2.11.11 **Wash Response to Covid-19**

The Ministry has been very active in the national efforts to combat the menace of COVID-19 PANDEMIC with following activities:

- i. The Honourable Minister inaugurated the National WASH committee on response to COVID-19 with all states commissioners responsible for Water Resources Development as members on April 16, 2020.
- ii. A national guideline for WASH sector response to COVID-19 was developed in collaboration with some Development partners and shared to all the 36 States & FCT.
- iii. The proposal for national WASH response to COVID-19 was developed by the Ministry and approved by the NASS and included in the National Economic sustainability plan (NESP). The proposal includes the following activities of which the implementation has already commenced.
- iv. Rehabilitation of 185Nos. Water Supply Projects (5Nos. for each of the 36 States and FCT).
- v. Construction of 185Nos. Solar Powered Water Supply Projects (5Nos. for each of the 36 States and FCT).
- vi. Construction of 370Nos. Public Sanitation Facilities (10Nos. for each of the 36 States and FCT).
- vii. Support to State Water Agencies to support their operations and to ensure uninterrupted water supply.
- viii. Supply of 370 Contactless Handwashing Facilities with soap and sanitizers (10Nos. for each of the 36 States and FCT)
- ix. Active engagement of 77,400 Youth Volunteers for hand-washing and ODF Campaign.

2.11.12 **Externally Funded/Assisted Programme**

2.11.12.1 **National Urban Water Sector Reform Project (NUWSRP)**

The NUWSRP is being coordinated by the Federal Project Implementation Unit that was established in 2004 in accordance with the mandate of the Development Credit Agreement with the World Bank for the implementation of Urban Water Sector Reform Project,

The project has incremental approach for States in its implementation such that States will self-select based on two major criteria viz: -

- a. Political commitment to reform the Water Sector
- b. Cost Recovery Capabilities of the Water Agencies

Both 1st NUWSRP and 2nd NUWSRP which comprises Ogun, Kaduna, Enugu & Lagos, Cross River States have been successfully implemented. The 3rd NUWSRP was being implemented in Bauchi, Ekiti and River States as Tier 1 States and another thirteen states refers to as Tier 2 States that include Jigawa, Kano, Gombe, Plateau, Benue, Abia, Anambra, Bayelsa, Ondo, Imo, Adamawa, Kebbi and Sokoto were on-going.

2.11.12.2 **African Development Bank (AFDB) Assisted Rural Water Supply and Sanitation(AFDB-RWSSI) Sub-Programme in Yobe and Osun States**

Federal Government of Nigeria/African Development Bank (AfDB) Assisted Rural Water Supply and Sanitation initiative of Federal Ministry of Water Resources has the objective to increase and sustain provision of safe water, sanitation services and hygiene practices to the rural communities and to build institutional sector capacity for management and implementation.

The project took off in 2008 with the African Development Bank's credit of US\$87 Million including FGN and States counterpart contribution from the two implemented States of Yobe and Osun. The programme components include:

- i. Infrastructure Provision
- ii. Capacity Building and
- iii. Management Support

The breakdown of completed Water and Sanitation facilities under this programme is presented in the table below:

S/N	Infrastructure	Location	Completion	Outcomes
a.	Water Supply Facilities			
i.	Construction of 2,186 Water points in rural communities and public schools of Yobe State, (MBH – 606, HPBH-1270, HDW – 310	Yobe	96%	Over 1,863,500 people are being served with water, 41 jobs are created
ii.	Construction of 1,032 Water points in public schools and places of Osun State, (MBH	Osun	100%	Over 948,900 people are being served with

	=310, HPBH-678, HDW – 44			water, 143 jobs are created
iii.	Construction of 2,226 compartment of VIP Latrines in public schools of Yobe State,	Yobe	100%	66,780 pupils are being served, reduced open defecation and improved health
iv.	Construction of 1,428 compartment of Sanitation facilities in public schools and places of Osun State, (Water Closet Toilet = 600 compartment, VIP 828	Osun	100%	42,840 Publics and people are being served, reduced open defecation and improved health

2.11.12.3 Other major achievements include:

- i. 3,183 water points and 3,654 compartments of sanitation facilities completed which are serving 2,790,150 people and 109,620 pupils/people respectively in the two states of Yobe and Osun, and led to reduction in open defecation and improvement in health condition of pupils as detailed below:
- ii. over 183 communities declared to attain open defecation free in Osun State;
- iii. 2,080 Water, Sanitation and Hygiene committees (WASHCOMs) were established in both states;
- iv. provision of Handpump/plumbing tools to 285 communities in 13 LGAs of Yobe State;
- v. establishment of spare parts supply chain centres in 13 LGAs of Yobe State;
- vi. completion of the seven short term consultancy services at the Federal Level targeted at improving RWSS sector;
- vii. FPCU built & strengthened over 1,802 Sector personnel across the three level of government, Legislative and Executive arms of Government in Yobe and Osun States through local/foreign trainings, study tour, advocacy and mobilization;
- viii. external Auditors were engaged to carry out annual Auditing of Books of Account of all the PIUs from project inception till date and the reports have been found acceptable and satisfactory even by the AfDB;
- ix. strengthened transparency in procurement business environment in Nigeria. (Support BPP by engaging TA for start-up activities

towards the roll out of e-Government Procurement (e-GP) system in seven pilot Federal Ministries);

- x. equipping the RWSS Institutions with information Technology, office and Laboratory equipment.
- xi. Water Quality Laboratory was set-up and equipped with chemicals and equipment in Osun State;
- xii. various livelihood support to IDPs returnees. dignity kits and set of animal tractions were distributed in Gujba, while 6,600 people benefited from the provision of means of decent livelihood and 110,000 relevant items were distributed to cushion the effects of desertification in belts. woodlots and nurseries goods (supplies and distribution of improved seeds, fertilizers, herbicides and pesticides. Commencement of supplies of Dignity Kits to be distributed to women);
- xiii. Quality Assurance for the project through engagement of third-party monitoring consultant;
- xiv. supports to FCT – Satellite Town Development Department to undertaken Demand Studies and GIS Mapping for the Abuja Integrated Urban Upgrading Programme as a basis for securing AfDB loan to finance the infrastructure development in the slums area of the five satellites town; and
- xv. production of jingles, drama and magazines programmes and broadcasted for five months on 36 FM radio stations across Nigeria and local television stations of Yobe and Osun States.

2.11.12.4 **AfDB funded Inclusive Basic Service Delivery and Livelihood Empowerment Integrated Program (IBSDLEIP)in five North East States**

The HBSDLEIP is being funded by AfDB and implemented by the five States (Adamawa. Taraba, Gombe, Borno and Bauchi) in the North East of Nigeria as well as Federal Ministry of Water Resources and others. This program is part of the on-going Federal Government efforts toward North East States Emergency Transition, Recovery and Peace building, elaborated by the five-year programmatic “Buhari Plan” of 2016. This programme cuts across education, health, Labour, women Affairs and Water Resources.

The programme has loan and grant finance facility. The WASH components of the programme at the Federal and State level are being financed with the sum of \$150 Million including \$6 million grant only at the FMWR. The shared amount is as follows; FMWR =\$10.0M (Loan & Grant), Adamawa - \$30M, Bauchi - \$26M, Borno - \$38M, Gombe -

\$17M, Taraba - \$16M and Performance allocation for WASH is - \$12M.

The programme's three main components include (i) Service Delivery (ii) Economy Recovery (iii) Institutional Strengthening.

2.11.12.4.1 The progress made so far includes:

- i. operational project vehicles procured for all the six PIUs:
- ii. 200 nos. and 76 nos. HPBH rehabilitation completed in Bauchi and Borno States while 84 Nos (solar/mechanized) new construction are at various completing stages in Adamawa State;
- iii. office accommodation construction is at peak of stage of completion in Adamawa State
- iv. some IT, Field and Office equipment were procured in Borno State while others PIUs are in procurement process to procure similar equipment;
- v. community Triggering for community Led Total Sanitation – 10 LGAs in Taraba State, 2 LGAs in Adamawa States with more than 50% of communities self-acclaimed ODF and 12 clustered communities in Borno State;
- vi. training of Trainers for WASHCOM formation in the prioritized communities; and
- vii. Many procurement documents for (Works Goods and Services) have been prepared and submitted for AfDB.

2.12 **DEPARTMENT OF RIVER BASIN OPERATIONS AND INSPECTORATE (RBOI)**

2.12.1 **Introduction:**

The Department of River Basin Operations and Inspectorate (RBOI) was created in **August, 2010** backed by Circular No. **OHCSF/MSO/317/Vol I/193** dated **10th July, 2012** in order to coordinate the activities of the **twelve (12)** River Basin Development Authorities (RBDAs) which were hitherto scattered in various Departments of the Ministry for better sectorial policy direction as well as more effective and efficient service delivery. The overall objective is to bring all the operations of the twelve (12) RBDAs to a close monitoring and scrutiny with a view to determining their productivity through the development and management of the nation's water resources and consolidating their outputs.

2.12.2 **Structure and Functions of the Department**

The Department of RBOI, being one of the Technical Departments in the Ministry, was professionalized and restructured vide Head of Service Circular No. **OHSCF/MSO/317/II/130** dated **18th December, 2017** with the following Technical Divisions:

- i. River Basin Planning and Design Division;
- ii. Operations Division;
- iii. River Basin Policies and Programmes Division;
- iv. Inspectorate Division.

2.12.3 **Staff strength**

The Department has a staff strength of twenty-four (24) officers made up of fourteen (14) males and ten (10) females.

2.12.4 **Functions**

The major Functions of the Department are as follows:

- i. carry out all Inspectorate and Monitoring functions of the RBDAs;
- ii. provision of Guidelines by the Department of RBOI for the Development of Strategic Plans by the RBDAs;

- iii. initiate Policies and Programmes for Job Creation and Poverty Reduction through the RBDAs;
- iv. initiate, Coordinate and Implement cross-cutting Programmes and Projects that can collectively involve and benefit more than one RBDA;
- v. Monitor, Coordinate and Advise the RBDAs in Internal Revenue Generation Initiatives;
- vi. coordinate and Advise the Honourable Minister and the Permanent Secretary on Private Sector Participations, Commercialization, Privatization or any other form of PPP arrangements for the development of the RBDAs;
- vii. undertake Performance Assessment, Technical Auditing of Projects and Programmes of the RBDAs to keep them on track and accountable to the Honourable Minister and the Permanent Secretary;
- viii. maintain Register and Computer Database of Projects and Programmes of the RBDAs;
- ix. inventorization, Coordination and Approval of Land Lease Application in the RBDAs;
- x. harmonize the 12 RBDAs Budget Proposals and coordinate Budget defense at NASS in collaboration with the Budget Division of the Ministry;
- xi. over-sighting of Appointment, Promotion and Disciplinary matters in the RBDAs in collaboration with the Human Resources Department;
- xii. over-sighting of Procurement related matters in the RBDAs in collaboration with the Procurement Department;
- xiii. liaise with the NASS on issues concerning the RBDAs, particularly on the Locations, Appropriation and the Implementation of Constituency Projects/Zonal Intervention Projects;
- xiv. develop a Strategy for harmonious relationship between the RBDAs and the host State Governments and host Communities where they operate and monitor such;
- xv. coordinate the activities of the 12 RBDAs especially those referred to the Ministry for action, interpretation or further directives;
- xvi. recommend to the Honourable Minister and the Permanent Secretary the Appointments and Tenures of Managing Directors and Executive Directors of the RBDAs;

- xvii. advise the Honourable Minister and the Permanent Secretary on issues of Board Appointments, Functions and limit of their Powers;
- xviii. provide Secretariat for Coordination of activities of the Forum of Managing Directors as well as the Forum of Executive Directors of the RBDAs;
- xix. collaboration with the Department of WRP&TSS on Technical matters related to Niger Basin Authority (NBA) and Lake Chad Basin Commission (LCBC);
- xx. collaboration with Nigeria Integrated Water Resources Management Commission (NIWRMC) on matters relating to Integrated River Basin Management (IRBM) at the Basin Levels;
- xxi. collaboration with Nigeria Hydrological Services Agency (NIHSA) on matters relating to Hydrological and Hydro-Geological activities at the Basin Levels; and
- xxii. carry out any other functions that may be referred to the Department by the Honourable Minister and the Permanent Secretary.

2.12.5 **Short description of the activities carried out by the Department as well as achievements recorded in 2020**

- i. Development of Inspectorate Manual for the RBDAs
- ii. Development of Guidelines for Operation and Maintenance of RBDAs, Dams and Irrigation Infrastructure
- iii. Organized an In-House Capacity Building Workshop on Monitoring, Evaluation and Information sharing on Projects in the RBDAs from **23rd to 25th August, 2020.**
- iv. Successfully organised retreat for Ministry's Representatives of the Boards of parastatals and agencies under the Federal Ministry of Water Resources in **November, 2020;**
- v. Got National Water Council approval for the commemoration of the World Rivers Day on 1st Sunday of September of every year; and
- vi. Successfully Organised a Retreat for newly appointed Executive Directors for the 12 River Basin Development Authorities in **December, 2020**

2.12.6 **Projects executed by the Department in 2020**

S/N	Project/ Programme Title	Project/Programme Description	Percentage of Completion	Remarks
i.	Development of Guidelines for Operation and Maintenance of RBDAs, Dams and Irrigation Infrastructure	1. Develop current and purpose- driven Guidelines on the Productivity of the RBDAs dams and Irrigation Projects.	100%	Completed
ii.	Development of Inspectorate Manual 1for RBDAs	Production of Inspectorate Manuals for the RBDAs	100%	Completed
iii.	Viability Assessment and Performance Evaluation of RBDA Projects	Socio- economic Impact assessment study of RBDAs Projects.(case study of Songhai farming)	50%	Ongoing
iv.	Coordination of Programmes for revitalization and Commercialization of RBDAs	i. Participation in technical meetings ii. Site visits and data collection	80%	Ongoing
v.	Impact Assessment of the Graduate/ Youth Empowerment programme across the RBDAs (Farming to Prosperity)	Coordinate the development of a transformative network of youth-cantered Agribusiness Hubs across the 12 RBDAs.	100%	Completed
vi.	Socio-Economic Impact Assessment of the Songhai Farming Model across the RBDAs.	Carry out periodic Inspection Visits to RBDAs to access implementation and compliance to the Integrated Songhai Farming Model.	100%	Completed
vii.	Coordination of Sensitization Programme on Integrated Water Resources Management (IWRM) in the River Basins	National sensitization workshop on mainstreaming IWRM at the catchment levels	100%	Completed

viii.	Coordination and Evaluation of ERGP Performance in the RBDAs	Tracking of ERGP Performance Targets for the RBDAs;	100%	Completed
ix.	Coordination of the Activities of the Governing Boards of the RBDAs	i. Coordinate Forum of Governing Boards meetings; and ii. Resolve disputes amongst members and within RBDAs.	100%	Completed
x.	Monitoring and Evaluation of Capital projects of the RBDAs	Development of Key Performance Indicators (KPI) for different Capital Projects.	100%	Completed
xi.	Renovation, Furnishing and Provision of Alternative Power Source of RBOI Headquarters Office	i. Purchase of Office Furniture and Hardware ii. Installation of Hardware	100%	Completed
xii.	RBDA Dam Safety Inspectorate and Surveillance	i. Site visits and data collection ii. Dam safety Reports	100%	Completed
xiii.	Infrastructure Optimization of RBDAs	i. Training of RBOI Staff on monitoring and evaluation of Hydraulic Infrastructure such as Dams and Irrigation. ii. Furnishing of offices iii. Purchase of office equipment	80%	On- going
xiv.	Establishment and Management of Central Data Base for Projects in RBDAs	Procurement and Installation of Computer Hardwares and other auxiliary works	100%	Completed
xv.	Collaboration and Partnership with Donor Agencies, Development Partners and MDAs on River Basin Management	Workshops, Seminars, Sensitization and organization of programme on exchange of knowledge	100%	Completed
xvi.	Needs assessment for institutional	Study visits and trainings of Hydrologists, Geologists,		

	Capacity Building	Hydrogeologists, Water Engineers, Technical and other Officers for effective and efficient Monitoring Supervision and Inspection of RBDAs Water Projects nationwide.	100%	Completed
xvii.	Collaboration of RBDAs with NBA and States on trans-boundary water	Participation on the NBA programmes locally and internationally	100%	Completed
xviii.	Supervision of discharge measurement and River flow studies	i. Supervision of Hydrological Data Base of the RBDAs. ii. Monitoring of Hydro-met stations across RBDAS.	100%	Completed

2.12.7 **Other Achievements:**

- i. development of Guidelines for Operations and Maintenance of Dams and Irrigation Infrastructure in the RBDAs – 80% completed;
- ii. development of Inspectorate Manual for the RBDAs – 80% completed;
- iii. supervision of Integrated Songhai Model Farming Schemes in the RBDAs;
- iv. supervision of Graduates/Youths Empowerment Programme (GYEP) in the RBDAs;
- v. coordination of Partial Commercialization of the RBDAs;
- vi. production of Register of RBDA owned Dams, Irrigation and Water Supply Schemes in the RBDAs;
- vii. mainstreaming/domestication of Integrated River Basin Management (IRBM) Practices in the 12 RBDAs;
- viii. optimization of the RBDAs Infrastructure Nationwide;
- ix. coordination of Initiatives for lifting 100 million Nigerians out of poverty in the next ten (10) years;
- x. in-House Monitoring and Evaluation of RBDAs Projects and Programmes;

- xi. in-House Workshop on Data Collection, Management and Information Sharing in the RBDAs;
- xii. coordination of the Managing Directors Forum as well as the Executive Directors forum;
- xiii. supervision of Operations and Maintenance of RBDA owned Dams and Irrigation Infrastructure;
- xiv. supervision of Hydro- Meteorological Stations in the RBDAs;
- xv. supervision of activities of Boards of the 12 RBDAs;
- xvi. supervision of matters relating to Budget, Procurement and Appointment Promotion and Discipline (APD) in the RBDAs;
- xvii. collaboration with Nigeria Integrated Water Resources Management Commission (NIWRMC) on matters relating to Integrated River Basin Management (IRBM) Practices at the Basin Levels and Trans-Boundary Waters;
- xviii. strengthening of the Central Data Base for Projects in the RBDAs;
- xix. Needs Assessment Survey for Institutional Capacity Building in the RBDAs;
- xx. monitoring of RBDAs Dams Safety and Surveillance Programme;
- xxi. tracking of ERGP Performance Targets for the RBDAs; and
- xxii. provision of Technical Support on matters relating to Niger Basin Authority (NBA) and Lake Chad Basin Commission (LCBC).

2.12.8 **Challenges/Constraints**

- i. Gross inadequate budgetary provision to match the increasing coverage by the Department;
- ii. With the deployment of more Technical Staff to the Department, we are currently faced with the challenges of office accommodation which stands at 5No. Offices only;
- iii. Inadequate operational vehicles (only 4 Nos. available for Nationwide coverage);and
- iv. Inadequate Technical Staff

2.12.9 **Recommendations**

- i. Development of Guidelines for Review of the Strategic Plans of the 12 RBDAs (2021 – 2024);
- ii. Enforcement of Dam Safety protocol in the RBDAs;
- iii. Enforcement of guidelines for Operations and Maintenance of RBDA owned Dams and irrigation Infrastructure;
- iv. Initiation of Programme for up scaling of Integrated Songhai Model Farming in the RBDAs; and
- v. Implement activities for mainstreaming/Domestication of IRBM practices at catchment levels to promote water security and conflict prevention.

PICTURE GALLERY

1.



Director, Songhai Regional Centre, Fr. Godfrey Nzamujo Welcoming the Deligates from Department of River Basin Operations and Inspectorate to the Centre in Port Novo, Benin Republic

2.



The Director, Department of River Basin Operations and Inspectorate led a six-man technical team from the Department to Songhai Integrated Model Farm, Port-Novo Benin Republic for a Technical Study Visit in February 2019

3.



Students from Benson Idahosa University (BIU) on completion of their training programme at Benin Owena River Basin Development Authority's Integrated Songhai Model Farm, Benin, Edo State



Group Photograph of participants at the National Sensitization Workshop Organized by the Department of River Basin Operations and Inspectorate on Mainstreaming of Integrated River Basin Management (Irbm) Principles and Practices at the Catchment Levels in Nigeria Held at Tinapa Lakeside Hotel, Calabar, Cross-River State

5.



Cross Sections of Trainees from the Upper Niger River Basin Development Authority's (UNRDBA) Graduates & Youths Empowerment Programme (GYEP) Minna, Niger State

6.



Practical Session by Graduates & Youths Empowerment Programme Trainees at Upper Niger River Basin Development Authority, Minna, Niger State



Empowerment of Graduates & Youths Empowerment Programme (Gyep) Trainees at Lower Niger River Basin Development Authority, Ilorin, Kwara State

2.13 **REFORM COORDINATION AND SERVICE IMPROVEMENT DEPARTMENT (RC&SI)**

2.13.1 **Introduction**

Reform Coordination and Service Improvement Department came into existence vide a Federal Government Circular Ref. HCSF/CMO/EM/243/17 dated 11th March, 2014.

2.13.2 **Structure**

The Department is made up of two divisions namely: Reforms Coordination and Service Improvement. It has a staff strength of eighteen (18) officers comprising seven (7) males and eleven (11) females.

2.13.3 **Functions**

- i. Enhancing the necessary frame work to ensuring efficiency, prudence, transparency, equity, accountability and adherence to due process in the conduct of Government business.
- ii. Work with the leadership of the Ministry to identify processes, system and service gaps with the Bureau for Public Service Reform

(BPSR) and Office of the Head of Civil Service of the Federation (OHCSF) to develop interventions to eliminate such gaps, manage and drive SERVICOM aims and initiatives within the Ministry, troubleshoot service failures and develop proposals to address them.

- iii. Receiving and attending to complaints/petitions from aggrieved citizens, staff, public and external bodies in respect of service failure, and complaints of non-adherence to due process (es) in procurement procedures.
- iv. Proffering advice and identifying good practices that can be adopted/adapted to improve service delivery in line with the character of the Ministry towards ensuring safe water to meet the cultural, social and economic needs of Nigerians.
- v. Organizing awareness and sensitization programmes for staff.
- vi. Maintaining a Charter desk office to collate inputs from the public, the Ministry, its Departments and Agencies.
- vii. Establishing a complaint/customer service Desk to receive and address complaints and grievances from within and outside the Ministry on service failure(s) with a view to resolving such lapses.
- viii. Setting up a service Improvement Desk to receive advice, suggestions and inputs on how services can be improved.
- ix. Serving as a focal point for driving all changes, reforms, innovation and improvement efforts within the Ministry and other Agencies of Government.

2.13.4 **List of the Activities Carried out/Achievements in 2020.**

- i. Held Last Quarter Network Rotational Meeting of the SERVICOM Focal Officers of the Parastatals, Agencies and RBDAs in Yola.
- ii. Completion of Door Numbering and Signages in the ministry
- iii. Review of Service Charter
- iv. Production of SERVICOM Sign Posts
- v. Production of Complaint Boxes

CHAPTER THREE

3.0 UNITS

3.1 GENDER AND HUMAN RIGHTS UNIT

3.1.2 Introduction

The Gender and Human Rights Unit is a “Specialize Unit” which was created in 2010. This is in realization of the Ministry’s commitment to support gender mainstreaming in the water sector aimed at ensuring that issues and concerns of males, females, poor, rich, elderly and people living with disabilities are incorporated into projects and programmes of the Ministry.

3.1.3 Structure of the Unit

The Unit has two sections, namely:-

- (i) Gender Matters
- (ii) Human Rights. The Unit is headed by an Assistant Director.

3.1.4 **Staff strength.**

The Unit has total staff strength of twelve (12), this comprised four (4) males and eight (8) females.

3.1.5 **Functions**

- i. Capacity building and strengthening of gender focal points;
- ii. Conducting advocacy and sensitization workshops for the propagation of gender mainstreaming in the sector;
- iii. Conducting advocacy and sensitization workshops for policymakers, for the propagation of gender mainstreaming in the sector;
- iv. Conducting advocacy, sensitization and mobilization activities to stakeholders, at the federal, state, LGA and community levels, for the promotion of gender mainstreaming in the sector;
- v. Promotion of water-based and sanitation related business, women and girls' empowerment;
- vi. Conduct verification exercises and report on implementation of gender plans;
- vii. Report on gender issues within the sector, pertaining to International commitments;
- viii. Collect data on current gender practices and gender roles in water projects and programmes;
- ix. Facilitate and advocate support and collaboration of Development Partners, Private Sector, NGOs, CSOs etc.

3.1.6 **Activities and Programmes Carried out in the Year 2020**

The Year 2020 was characterized by Lock down due to the corona virus (COVID-19). However, the Unit was able to record some achievements as stated below:

- i. Northern Zonal Workshop for the 3rd draft implementation guidelines Water Resources Policy in collaboration with UNICEF was held at Kini Hotel, Keffi, Nassarawa State. The purpose was to expose the draft guidelines to the relevant stakeholders for them to critique and make input into the document. More than twenty participants were drawn from the Ministry and the RBDAs.

- ii. A pool of stakeholders and Gender Desk Officers were equipped with requisite knowledge and skills on gender mainstreaming, in programmes and project cycle.
- iii. Production of the guidelines for gender mainstreaming.
- iv. Network of gender desk officers, between the main Ministry and its agencies established.
- v. A two-day Sensitization Workshop on the Best practices to prevent COVID-19 was held in Mararaba, Karu Local Government Area

3.2 LEGAL SERVICES UNIT

3.2.1 Introduction

Legal Services Unit is made up of lawyers posted from the Office of the Attorney-General of the Federation and Honourable Minister of Justice and supporting staff of the Ministry.

3.2.2 Functions

- i. Providing Legal Advice and Opinion on legal issues affecting the Ministry and its Agencies on policy matters, legislation, contracts, litigations, personnel matters, compensation matters and international relations.
- ii. Preparing defence and representing the Ministry in Court and initiating suits on behalf of the Ministry when necessary.

- iii. Drafting Agreements, Memorandum of Understanding (MoUs) and other documents between the Ministry and third parties.
- iv. Representation in Procurement Committee and in the Ministerial Tenders Board.
- v. Providing Legal advice to various Committees set up in the Ministry as member or non member.
- vi. Any other duties as may arise from time to time.

3.2.3 **Structure**

The Unit is headed by the Ministry's Legal Adviser who is the Director, Legal Services (SGL.17), ably supported by a Deputy Director, Assistant Director and State Counsels.

3.2.4 **Staff Strength:**

The Unit has a total staff strength of fourteen (14). This was made up of nine (9) males and five (5) females.

3.2.5 **Description of the activities carried out by the unit including achievements in 2020.**

The Legal Services Unit had been involved in:

- i. Representing the Ministry in a plethora of Court cases in Lagos, Niger, Osun, Benue, Plateau and Imo States.
- ii. Prepared more than 3000 Contract Agreements.
- iii. Follow-up of the National Water Resources Bill.
- iv. Rendering several Legal advice and opinion to the Ministry, the various Departments and Agencies under the Ministry.
- v. Participated in the 2020 Budget defence, Budget Performance appraisal and discussion.
- vi. Participated on Public Account of past appropriations and expenditure.

3.3 NATIONAL ASSEMBLY LIAISON UNIT

3.3.1 Introduction

The National Assembly Liaison Unit is one of the Service Units set up to liaise with the Senate and House Committees on Water Resources and other relevant Committees that are overseeing the Ministry's activities in order to foster cordial working relationship with them. The Unit came into existence in the last quarter of the year 2011.

3.3.2 Structure

The Unit is headed by a Deputy Director and supported by six other Administrative Staff. It has a total staff strength of seven (7) comprising five (5) males and two (2) females.

3.3.3 Functions

- i. Liaising between the Ministry and the two Committees of Water resources in the National Assembly and other related Committees involving Water related issues.
- ii. Project, uphold and maintain the dignity and good image of the ministry and its leadership before all the relevant Committees of the National Assembly.
- iii. Facilitates timely interactions between the Ministry and various Committees of both Houses whenever the need arises.
- iv. Ensures that materials and responses from the Ministry and its Agencies are legislatively right and politically correct.
- v. Guide members of the Committee on Water Resources of National Assembly and other related Ministries, Parastatals and Agencies during their oversight functions and tours.
- vi. Co-ordinates the Ministry's presentations (written and oral) before the Committees of the National Assembly.
- vii. Carrying out the public relations activities and any other functions/duties as may be assigned by the Management.

3.3.3 **Activities/ Achievements of the Unit in 2020**

During the year under review, the Unit was able to participate actively in most interactive sessions covering wide areas such as:

- i. 2020 budget defence.
- ii. Budget performance, appraisal and discussion.
- iii. Public account on past appropriations and expenditure.
- iv. Responds to the resolution tabled at the floor of both Committees of the National Assembly.
- v. Public hearing with various Committees of the National Assembly.

The Committees with most interaction over the year under review include:

- a. Senate/ House Committee on Water Resources.
- b. Senate/House Public Account Committee.
- c. House Committee on Rural Development.
- d. House Committee on Special Duties.
- e. House Committee on Port-Harbor and Water Ways.
- f. Committee on Economic Recession.

- g. Committee on Public Procurement.

3.4 PRESS AND PUBLIC RELATIONS UNIT

3.4.1 Introduction

The Press and Public Relations Unit is one of the Service Units in the Ministry statutorily saddled with the responsibility for formulation, implementation and monitoring of strategic public communication programmes of the Ministry for the effective and efficient information and enlightenment of Nigerians. The Unit is also mandated to provide support media initiatives in furtherance of the overall mandate of the Ministry for the inclusive governance of Nigerians.

3.4.2 Structure

The Unit is headed by the Director (Information) and assisted by Information Officers. The Director and Information officers are all from the Federal Ministry of Information and Culture.

3.4.3 Staff strength

The Unit had a total staff strength of sixteen (16) as at 31st December, 2020 and was made up of ten (10) males and six (6) females.

3.4.4 Functions

- i. Periodic rendition of news reports on the programmes and projects of the Ministry for inclusion in the National Website for public information and inclusive governance. These are sent in form of Press Releases to the Federal Ministry of Information and Culture, and also to various print and electronic media houses through e-press releases. The Press Releases are accompanied by relevant action photographs and videos.
- ii. Strategic projection of all activities and programmes of the Federal Government being implemented through this Ministry using the traditional and news media.
- iii. Daily review of the National Dailies and magazines for media reports about the activities of the Ministry, specifically the programmes of the Honourable Minister and the Permanent Secretary which were covered by the Department. This enables the Department to review the effectiveness of her communication strategy and subsequently send feedback to management for possible adjustments in corporate policies of government.
- iv. Oversees the information gathering and dissemination strategies of the Office in a manner that is consistent with the realization of a positive image and provides the ICT Unit of the Water Resources Planning and Technical Support Services Department with the communication materials for placement on the Ministry's Website. The Information Department on the other hand, keeps the WhatsApp, Twitter, Instagram etc updated always with trending programmes of the Honourable Minister and the Permanent Secretary.
- v. Creates strategies for handling press enquiries and Editors'/ Publishers' requests in a proactive way such that press interviews generate the achievement of a positive image for the Ministry and overall inclusive governance for Nigerians.
- vi. Develops concise key messages for placement in the public domain as advertorials and advertisements on behalf of the Ministry.

- vii. Organizes press briefings/conferences for the Honourable Minister and the Permanent Secretary as part of the public relations strategies for major programmes of the Ministry.
- viii. Develops and implements public education and enlightenment projects for special events for the traditional and new media.
- ix. Publishes magazines and other public information materials for the promotion of the achievements, programmes and activities of the Ministry.
- x. Carried out periodic Media Audit to enable the strategic adjustment of the media strategies of the Department.

3.4.5 Projects and Programmes implemented during the period under review

- i. A comprehensive sensitization and advocacy workshop for Water Resources Reporters on the urgent need for the proper and timely reportage of Federal Government's efforts and activities across the nation.
- ii. Printed and distributed two editions of in-house magazines that provided vivid and pictorial details of some Water Resources projects.
- iii. Carried out the production of television documentary on Water Resources special projects aired on Channels Television and African Independent Television (AIT), Arise TV, NTA and Silverbird TV.
- iv. Used Federal Radio Corporation of Nigeria (FRCN), Nigeria Info FM, Radio Nigeria Kaduna, Wazobia FM and Ray Power FM radio, Aso Radio, Kiss FM and Human Rights FM etc to air jingles aimed at educating the rural populace on the activities of the Ministry.
- v. Published some Feature Stories on Newspapers and Magazines.
- vi. Organised the First Quarter Lunch Time Forum on ending Open Defecation in Nigeria with Executive Directors (News) in the Electronic Media Houses in collaboration with Organised Private Sector in Water, Sanitation and Hygiene (OPS – WASH) in March, 2020.
- vii. Organised Virtual Ministerial Press Briefing that gave the Honourable Minister good opportunity to tell the whole world of his massive and landmark achievements in Nigerian Water, Sanitation and Hygiene Sector in the past one year.

3.5 ANTI-CORRUPTION AND TRANSPARENCY UNIT

3.5.1 Introduction

The Anti-corruption and Transparency Unit of the Federal Ministry of Water Resources was constituted in October, 2010. The Unit is charged with the responsibility of serving as a Watch Dog and whistle blower in matters pertaining to corruption and other social vices within the Ministry, including its Parastatals, Agencies and Commission.

3.5.2 Functions:

The Unit is charged with the following functions:

- i. Serves as the main link between the Ministry and the Parastatals on one hand and the Independent Corrupt Practices and Other Related Offences Commission (ICPC) on the other hand.
- ii. Receives Oral and written reports of conspiracy to commit or attempt to commit an offence of corruption.
- iii. Educates all officials of the Ministry and Parastatals on the need to abstain from bribery and corruption through seminars and lectures.
- iv. Submits an annual report to the Commission with copies to the Permanent Secretary.

3.5.3 Short Description of the activities carried out by the Unit Including Achievements in 2020

- i. Opening of a “WhatsApp” group for members
- ii. Donation of six complaint boxes to the Reform Coordination and Service Improvement Department.
- iii. Active involvement/participation during the previous National Council on Water Resources.
- iv. Submitted year 2020 report of its activities to the Secretary to ICPC.
- v. Continued sensitization of staff of the Ministry and its Parastatals and Agencies on the danger of taking gratifications including sanction.
- vi. Interfacing with the ICPC in cases involving staff of the Ministry.

3.6 SURVEY UNIT

3.6.1 Introduction

The Survey Unit is one of the supporting Units in the Federal Ministry of Water Resources. Its mandate is to provide the requisite geospatial information in the right quality, quantity and format for the various Technical Departments and Units in order to facilitate and complement their activities in the course of implementing their

mandates for better service delivery. The Survey Unit is under the office of the Permanent Secretary.

3.6.2 **Structure and Functions of the Unit**

The Unit is headed by a Deputy Director whose major responsibility is to identify and provide the geospatial needs of the Ministry's Departments and Agencies. It has a total staff strength of seven (7) officers made up four males (4) and three (3) females

The Unit's responsibilities amongst others are as follows:

- i. Topographical Survey of sites for construction of dams, reservoirs and irrigation infrastructure;
- ii. Cadastral and Legal Survey of all Federal Ministry of Water Resources landed properties nationwide for the preparation of Title-Deed-Plans (TDP)
- iii. Deformation Monitoring for horizontal and vertical shifts of Dams nationwide
- iv. Establishment of First (1st) Order and Second (2nd) Order Survey Controls on all Federal Ministry of Water Resources Dam and Irrigation sites nationwide.
- v. Hydrographic Survey and Bathymetric Survey
- vi. Liaising with the Federal Ministry of Water Resources on behalf of the Office of the Surveyor-General of the Federation (OSGOF).

3.6.3 **The following achievements were recorded by the Unit in 2020:**

- i. demarcation, Area Computation and Boundary Survey of Remaining Part of Kano River Irrigation Scheme (KRIS), Kano State;
- ii. reconnaissance Survey of some land assets of Lower Benue River Basin Development Authority and Sokoto Rima River Development Authority. Period: 08th – 14 June, 2020;
- iii. establishment of Dam Deformation Monitoring Controls in Kwa Falls Dam/Irrigation Project in Akamkpa LGA, Cross River State. Period: 26th June – 4th July, 2020;
- iv. perimeter/Details Survey of part of Kashimbilla Multi-Purpose Dam Reservoir in Taraba State. Period: 15th – 5th October, 2020; and
- v. reconnaissance Survey of some land assets of Cross River Basin Development Authority.

3.7 **STOCK VERIFICATION UNIT**

3.7.1 **Introduction:**

Stock Verification Unit is one of the three arms of checks and balances in the Public Service Accounting System. It is under the Office of the Permanent Secretary. The Unit is vested with the statutory responsibility to verify supplies of goods and services to ensure that all purchases made are in line with contracts agreement/specification.

The Unit has the total staff strength of ten (10). The breakdown of the total staff strength by sex is as follows: three (3) males and seven (7) females.

3.7.2 **Functions:**

Its functions include:

a. **Pre-Payment Verification**

- i. Pre-payment verification of all supplies procured on Local Purchase Orders (LPOS), contracts, job orders, etc.
- ii. Verification of all stores procured on cash and advances, out of pocket expenses (OPE), etc.
- iii. Pre-verification of all works, services and repairs, at point of delivery or sites.
- iv. Examination of Store Ledgers.

b. **Post-Payment Verification:**

- i. Taking and up-dating of Inventory of furniture and equipment.
- ii. Partaking in board of survey matters, determining and declaring materials and equipment that is unserviceable by featuring them in the unserviceable form 9.
- iii. Examine the records of payments made for stores acquired since the last inspection and test-check that purchases of stores have been properly taken on charge in the relevant stores ledger. FR. 2704 (g).
- iv. Examination of condition of store and storage facilities.
- v. Preparation of stock verification report.

3.7.3 **Specific duties performed by the Unit in 2020**

- i. Physical checking of store items.
- ii. Checking of office furniture & equipment on inventory board.
- iii. Verification of supplies made direct to River Basins and Research Institutes by which payment were made at the Headquarters.
- iv. Examination of record of payment made in respect of supplies, works and services made within the year under review;

- v. Compilation of unserviceable stores fund during inspection for necessary stock verification action.

3.7.4 **Achievements:**

All contracts awarded by the Ministry were successfully supplied and checked in accordance to the specification before payments were made.

3.8 **CLIMATE CHANGE UNIT**

The Unit is one of the specialized Units of the Ministry under the office of the Permanent Secretary. It has a total staff strength of six (6) made up of four (4) males and two (2) females

3.8.1 **Functions of the Unit:**

- i. Mainstream climate change concepts into the activities of the water sector.
- ii. Strengthening of overall policy/institutional framework, including resources mobilization and information that will promote mainstreaming climate change issues into the water sector.
- iii. Promote Climate Change resilience development: Climate smart water management; integrated water resources management.
- iv. Promote low carbon Development; Low carbon solutions for rural areas; renewable energy options.
- v. Implement capacity building in the water sector on climate change.
- vi. Publish regularly, maps, bulletin, etc with the view of disseminating information on climate change.
- vii. Sensitize the public on Climate Change as it affects the water sector and the strategy for mainstreaming climate change phenomena into water resources planning and management.

3.8.2 **Achievements in 2020:**

- i. Engagement of a suitable Consultant for field activities and data collection, collation and analysis.
- ii. Held series of sector level meetings with the various stakeholders for collation of their input, contributions, challenges and way forward in the water sector.
- iii. Submission of Draft Final Report by the Consultant which includes the highlights for the preliminary activities/tasks to development of Climate Resilience Water Management Plan.
- iv. Engaged in series of meetings and Consultations on the Nationally Determined Contribution (NDC) review with various stakeholders in the sector, especially the RBDAs and all parastatals under the Ministry such as Nigeria Integrated Water Resources Management Commission (NIWRMC), Nigeria Hydrological Services Agency (NIHSA) and National Water Resources Institute (NWRI).

3.8.3 **Specific Challenges**

- i. Low level of understanding and appreciation of the effects of Climate Change by stakeholders towards development of joint climate resilience projects.

- ii. Lack of synergy and collaboration among stakeholders for effective information sharing and management on climate change issues.
- iii. Nonchalant attitude of citizens on climate change issues.
- iv. Paucity of hydrological and hydrogeological data for effective planning of water resources projects.
- v. Inadequate funding for research, capacity building, appropriate skills acquisition, lack of monitoring and evaluation of climate change issues.
- vi. Lack of appropriate technology for adaptation and mitigation of the effect of climate change.

3.8.4 Way Forward

- i. Strengthening the River Basin Development Authorities towards implementation of climate resilience pilot schemes towards strategic planning, design and implementation of Climate Smart Water Resources project (adaptation and mitigation) at the basin level.
- ii. Need for the deployment of renewable energy, especially, solar and wind technologies.
- iii. Training and re-training programme for planners and engineers in the sector for improve understanding of the climate change scenareos and domesticating same in project planning and management is very key to improving the water sector and especially on application of renewable energy systems.

Some photographs of the Consultative Meetings



Group picture of Consultative Meeting at DokoKoli Hotel at Minna, Niger State



Cross section of the participants and Group picture at the Consultative meeting



Pic L: Cross section of participants listening to presentation at the consultative meeting at Eagles Suite at Makurdi, Benue State

CHAPTER 4

4.0 THE PARASTATALS/AGENCIES

There are twelve (12) River Basin Development Authorities (RBDAs) and Three (3) Agencies under the Ministry. The RBDAs are responsible for the execution of the Ministry's projects and programmes in all the Thirty-six (36) States of the Federation including FCT. The Agencies are National Water Resources Institute (NWRI), Nigeria Hydrological Services Agency (NIHSA), and Nigeria Integrated Water Resources Management Commission (NIWRMC)

The RBDAs were setup in 1977 by Decree No. 25 of 1976 to ensure sustainable development of the nation's abundant water and allied resources for multi-purpose use. During this early time, the jurisdiction of the Authorities cut across State boundaries and their activities followed natural river courses across the country. This arrangement however, had immense problems between the management of some RBDAs and State Governments especially during the Second Republic.

Consequently, Decree No. 87 of 1979 streamlined the operational boundaries of each RBDA to follow State boundaries. In 1984, the number of RBDAs was increased to 18 with each state then having its own RBDA except Lagos and Ogun States which shared one RBDA. The number of RBDAs was later reduced to the original eleven (11). Again, Decree No. 35 of 1987 amended both the structure and the functions of the RBDAs, restricting them to mainly water resources programmes and excising those other functions that were not strictly water resources based. Such projects were later sold off to individuals, as non-water assets under the commercialization and privatization exercise of the Federal Government which commenced in 1988.

In 1994, the erstwhile Niger River Basin Development Authority was split into the present Upper and Lower Niger River Basin Development Authorities in order to make them more effective and better focused to serve their respective communities. This exercise therefore increased the number of RBDAs to twelve (12) which has remained till today.

4.1 The twelve (12) RBDAs and their areas of coverage

S/N	RBDAs	Headquarters	Area of Coverage
i.	Anambra-Imo River Basin Development Authorities (AIRBDA)	Owerri	Abia, Anambra, Ebonyi, Enugu and Imo State
ii.	Benin-Owena River Basin Development Authority	Benin City	Edo, Ondo, Ekiti and parts of Delta State
iii.	Chad Basin Development Authority (CBDA)	Maiduguri	Borno, Yobe, parts of Adamawa State
iv.	Cross River Basin Development Authority	Calabar	Cross River and Akwa Ibom State

	(CRBDA)		
v.	Hadejia-Jama'are River Basin Development Authority (HJRBDA)	Kano	Kano, Jigawa and parts of Bauchi State
vi.	Lower Benue River Basin Development Authority (LBRBDA)	Makurdi	Benue, Plateau, Nasarawa and parts of Kogi State
vii.	Lower Niger River Basin Development Authority (LNBDA)	Ilorin	Kwara and parts of Kogi State
viii.	Niger Delta Basin Development Authority (NDBDA)	Port Harcourt	Rivers, Bayelsa and parts of Delta State
ix.	Ogun-Oshun River Basin Development Authority (OORBDA)	Abeokuta	Ogun, Oyo, Osun and Lagos State
x.	Sokoto Rima River Basin Development Authority (SRRBDA)	Sokoto	Sokoto, Kebbi, Zamfara and Katsina State
xi.	Upper Benue River Basin Development Authority (UBRBDA)	Yola	Taraba, Gombe and parts of Adamawa and Bauchi State
xii.	Upper Niger River Basin Development Authority (UNRBDA)	Minna	Niger and Kaduna State and FCT

4.2 **Functions of the River Basin Development Authorities are:**

- i. To undertake a comprehensive development of both surface and groundwater resources for multi-purpose use, with particular emphasis on the provision of irrigation infrastructure, flood and erosion control and for watershed management.
- ii. To construct, operate and maintain dams, dykes, polders, wells, irrigation and drainage systems for the achievement of the functions of the Authorities and to handover all lands to be cultivated on irrigations schemes to farmers.
- iii. To supply water from the Authority's completed storage schemes to all users for a fee to be determined by the Authority concerned with the approval of the Minister.
- iv. To construct, operate and maintain infra-structural services such as roads and bridges linking project sites, provided that such services are included and form an integral part of the list of the approved projects.

4.1.1 **ANAMBRA IMO RIVER BASIN DEVELOPMENT AUTHORITY**

4.1.1.1 **Introduction**

Anambra- Imo River Development Authority is one of the twelve (12) River Basin Development Authorities in the country. It is a parastatal under the supervision of the Federal Ministry of Water Resources which is fully owned by the Federal Government of Nigeria that provides the operational funds.

The Authority's areas of operation cover five (5) States of Abia, Anambra, Ebonyi, Enugu and Imo, all in the South East Geo-Political Zone of Nigeria. The administrative Headquarters of AIRBDA is located at Agbala in Owerri North Local Government Area of Imo state.

4.1.1.2 **Vision Statement**

- i. To provide leadership in Integrated Rural Development through Sustainable Development of the human, land, water and environmental resources for multi-purpose uses in Anambra – Imo River Basin.
- ii. To be the best River Basin in the country in providing the sustainable water needs of all citizens within the South East Geo-Political Zone.

4.1.1.3 **Mission Statement**

- i. To sustainably harness and utilize Water Resources of Anambra Imo River Basin Authority for improvement of lives and livelihood of Nigerians in the Basin.
- ii. To effectively and efficiently develop and manage Water Resources in the South East by ensuring that we plan, harness and conserve surface and under-ground water for the benefit of the people.

4.1.1.4 **Staff Strength**

The Authority's staff strength stood at four hundred and eighteen (418) as at 31st December, 2020.

4.1.1.5 **Promotion**

During the period under focus, the Authority promoted a total of One hundred and eighty-eight (188) staff. This comprised one hundred and eighty-six (186) senior and two (2) junior staff.

4.1.1.6 **Death**

The Authority lost two (2) of its staff in 2020.

4.1.1.7 **Board Matters**

The Authority held two (2) Board Meetings during the period. The focus of the two meetings were mainly to develop robust strategies for effective running of the Authority, overseeing various projects and programmes being implemented by the Authority as well as the granting of approval to the 2020 promotion exercise.

4.1.1.8 Projects and Programmes of the Authority

4.1.1.8.1 Revitalisation of RBDA Agricultural Services

The Authority was involved in the following Agricultural Activities:

- Establishment of market garden using the Songhai Integrated Agricultural Model at the Headquarters.
- Supply of agro-inputs, agro chemicals and drugs e.g.: cassava stem (tme 419), herbicides, fertilizer (npk 15:15:15), fingerlings, feed (fish), drugs (fish), mosquito net, feeds, detergents etc.
- Operations and management: Land preparation for cassava, cutting and planting, application of herbicides, insecticides and fertilizer, weeding etc.
- Preparation of 6.2Ha farmland for farmers within the Headquarters using Authority's tractors.
- Reconstruction of water bottling plant for production of sachet and bottled potable water.
- Completion of the design of the new Palm Oil Mill.
- Maintenance of 10ha. Woodlots of various species e.g. Nauclea, Gmelina, Teak, Terminalia within the Headquarters.
- Stocking of piggery, poultry and fish pond at the Agbala Integrated Project (Songhai Model)

4.1.1.8.2 Headquarters and Project Development Rehabilitation

The Headquarters is the Administrative nerve centre of the Authority from where all the activities of the Authority are coordinated.

The following were achieved within the period:

- i. Rehabilitation of water works including reticulation network in the Headquarters.
- ii. Rehabilitation of administrative building of Lower Anambra Irrigation Project (LAIP) Omor, Anambra State.
- iii. Minor repairs of existing infrastructure (Offices and some residential buildings).

- iv. Installation and maintenance of VSAT communication system for internet Services and wireless network.
- v. Rehabilitation and extension of Headquarters street light.
- vi. Installation of CCTV Cameras and Security gadgets at the Headquarters Office Complex.
- vii. Rehabilitation and asphaltting of Headquarters Estate road.

4.1.1.8.3 **Agbala Integrated Farm Project**

Agbala Integrated Farm Project (AIFP) is located within the premises of Anambra-Imo River Basin Development Authority's Headquarters.

The Project has a total land area of about 19.05 hectares with the potentials to do animal husbandry (livestock and poultry), fish Production, agro-forestry production and vegetable production.

The Project was flagged off in September 2016 following the approval of the Honourable Minister, Engr. Suleiman Adamu, FNSE, FAEngto establish the Songhai Model farming in the twelve (12) River Basin Development Authorities across the Country.

4.1.1.8.4 **Achievements recorded in the Project Within the period under review**

Market Garden

- a. produced about 33.6tonnes of Cucumber, 73,286pieces of maize (sweet corn), 1.5tonnes of tomatoes, 625kg of Okra, 3901kg of pawpaw and 1850kg of Telfera etc.
- b. 1.5ha with cucumber, water melon, okra, pepper, tomatoes, sweet corn was being cultivated as market garden.

Fishery

A total of about 200 parent stock tilapia and 6,736 catfish were in stock.

Free Range Poultry

This consists of four compartments stocked with the following; 187 layers, 49 Guinea fowls, 20 turkeys and 30 cockerels. The cockerels have been sold off while in stock were 457 layers and 40 guinea fowls.

Agro Forestry

This covers an area of 2.0 Ha with crops like pawpaw, coconut, moringa, plantain and acacia. The agro forestry has 3000m² plantation and 3000m² plantation of moringa

Piggery

Construction of the piggery pens was completed in the first quarter of 2018. It was thereafter stocked in the second quarter of the same year with a boar, soars and weaners. In year 2020, the pens had about 124pigs of different categories in the piggery.

4.1.1.8.5 Flood and Erosion Control Projects executed by the Authority in 2020

The Authority executed a number of flood and erosion control projects in various locations of the South East Geo-Political Zone during the period under review.

Details of the project was presented below:

S/ N	PROJECT TITLE	PROJECT DESCRIPTION		PERCENTAGE LEVEL OF COMPLETION	SPECIFIC ACHIEVEMENTS RECORDED BY THE PROJECT IN 2020	REMARKS (COMPLETED OR ONGOING
		LOCATION	DATE OF AWARD			
1	Erosion Control Woks at Ubahu Ekwem Ihiala LGA Anambra State	Ubahu Ekwem Ihiala LGA Anambra State	December 2020	100%	Earthworks, Drainage and other Concrete Works	Completed
2	Completion of Erosion Control Works at Egbu, Imo State	Egbu, Imo State	December 2020	100%	Earthworks, Concrete Works	Completed
3	Completion of Umuoba Uratta Erosion Control Owerri North LGA Imo State	Umuoba Uratta Owerri North LGA, Imo State	December 2020	100%	Earth Works, Drainage	Completed
4	Erosion Control in Ifiteani Agulu in Aniocha LGA in Anambra State	Ifiteani Agulu in Aniocha LGA Anambra State	December 2020	100%	Earthworks, Concrete Works, Asphaltting	Completed
5	Erosion Control Works Mission House Road Umunwanwa Umuahia South Abia State	Mission House Road Umunwanwa Umuahia South Abia State	December 2020	100 %	Earthworks, Concrete Works	Completed
6	Erosion Control Works At Uratta East Hse Estate (Bar Ukanwa Lane) Ow Imo State	Uratta East House Estate (Bar. Ukanwa Lane) Owerri, Imo State	December 2020	100 %	Earthworks, Concrete Works, Asphaltting	Completed
7.	Eke Utu Umunaga Erosion Control Itu Ezinihite Mbaise Lga Imo State	Itu Ezinihite Mbaise Lga Imo State	December 2020	100 %	Earthworks	Completed
8	Erosion Control Works From Agbala Primary School to Umuawuka Emii Road Agbala, Imo State	Agbala Primary School to Umuawuka Emii Road Agbala, Imo State	December 2020		Earthworks and Asphaltting	Ongoing

9	Flood Erosion Control in Akwa Ifitedunu Dunukofia LGA Anambra State	Akwa Ifitedunu Dunukofia LGA Anambra State	December 2020	100%	Earthworks, Concrete Works, Asphaltting	Completed
10	Flood Erosion Control in Umuanugo Ifitedunu Dunukofia LGA Anambra State	Umuanugo Ifitedunu Dunukofia LGA Anambra State	December 2020	100%	Surface Restoration, Asphaltting	There was an outstanding certificate owed in 2019. The balance was used to procure job for 2020 which has been completed.
11	Flood and Erosion Control in Umueze Umuanugo Ifitedunu Dunukofia LGA Anambra State	Umueze Umuanugo Ifitedunu Dunukofia LGA Anambra State	December 2020	100%	Earthworks, Concrete Works, Asphaltting	There was an outstanding certificate owed in 2019. The balance was used to procure job for 2020 which has been completed.
12	Flood and Erosion Control in Nkwelle Umunachi Idemili North LGA Anambra State	Nkwelle Umunachi Idemili North LGA Anambra State	December 2020	100%	Drainage and Other Concrete Works	There was an outstanding certificate owed in 2019. The balance was used to procure job for 2020 which has been completed.
13	Construction of Ajamenu Rural Road Ebony State	Ajamenu , Ebonyi State	December 2020	-	Drainage and Other Concrete Works	Ongoing
14	Flood and Erosion Control Works at Ama Ezie Umuokwara Ikuku Umuna Orlu Imo State	Ama Ezie Umuokwara Ikuku Umuna Orlu LGA Imo State	December 2020	-	Earthworks and Concrete Works	Ongoing
15	Amibo Ezianya Amuzu Erosion Control/Road Project	Amibo Ezianya Amuzu Umuahia North LGA, Abia State	December 2020	-	Earthworks, Concrete Works	Ongoing
16	Flood and Ero Works at Ashimole Akuwa Ibeku Road, Abia State	Ashimole Akuwa Ibeku Road, Abia State	December 2020		Earthworks and Concrete Works	Ongoing
17	Erosion Control Works at Dr Agochukwu Road Uratta East Housing Estate Oweeri Imo State	Dr Agochukwu Road Uratta East Housing Estate, Owerri, Imo State	December 2020	100%	Excavations and Earth Works, Concrete Works	Completed
18	Erosion Control Along Eke Mgbom Road Afikpo Ebonyi State	Eeke Mgbom Road Afikpo Ebonyi State	December 2020	100%	Earthworks and Concrete Works	Completed
19	Erosion Control Along Oba	Oba Mgbom / Uzeyi Farm	December 2020	100%	Earthworks and Concrete Works	Completed

	Mgbom/Uzeyi Farm Road Afikpo Ebonyi State	Road Afikpo Ebonyi State				
20	Erosion Control at Eke Orogwe Ndegwu/Amakohia Ubi in Owerri West Imo State	Eke Orogwe Ndegwu / Amakohia Ubi in Owerri West, Imo State	December 2020	100%	.Earthworks and Concrete Works	Completed
21	Erosion Control at Okuku Owerri West Imo State	Okuku Owerri West, Imo State	December 2020	100%	Earthworks	Completed
22	12th Mile to Ozzuh Road, Umannachi Dunukofia LGA Anambra State	Umannachi, Dunukofia LGA, Anambra State	December 2020	100%	Earth Work , Drainage and Asphalt	Completed
23	Erosion Control Ide Road Ukpomili Ifitedunu Dunukofia LGA Anambra State	Ukpomili, Ifitedunu, Dunukofia LGA Anambra State	December 2020	100%	Earthworks, Drainage, other Concrete Works	Completed
24	Erosion Control Agu Akwa Ifitedunu to Umudioka Town Road Dunukofia LGA	Agu Akwa Ifitedunu to Umudioka Town Road Dunukofia LGA	December 2020	100%	Earthworks, Drainage Works pavement	Completed
25	Erosion Control Ilo Umuabiala to Ezi Ekpe Road Akwa Ifitedunu Dunukofia LGA	Ilo Umuabiaru to Ezi Ekpe Road, Akwa, Ifitedunu, Dunukofia LGA	December 2020	100%	Earthworks, Concrete Works, Asphaltting	Completed
26	Erosion Control Works Along Eke Amaudi Road Obizi Ezinihitte Imo State	Eke Amaudi Road, Obizi Ezinihitte Imo State	December 2020	100%	Earthworks and Concrete	Completed
27	Obieze Abba Road Obieze Vilage Ihetedunu,Dunukofia LGA Anambra State	Obieze Village Ifitedunu, Dunukofia LGA, Anambra State	December 2020	100%	Earthworks and Concrete Works	Completed
28	External Works and Erosion Control at the Community Multipurpose and Empowerment Central ProjectMPU Aninri LGA Enugu State (New)	Mpu, Aninri LGA, Enugu State	December 2020	100%	External Works, Earthworks, Concrete Works and Asphaltting	Completed
29	Completion of Erosion Control at Obodo Upa Amede Road and Ehamufu Isiuza LGA Enugu State	Obodo Upa Amede Eha-Amufu Isiuza LGA Enugu State	December 2020	100%	Earthworks, Concrete Works	Completed
30	Erosion Control at Ebenator Nnewi South LGA Anambra State	Ebenator, Nnewi South LGA, Anambra State	December 2020	100%	Earthworks, Concrete Works and Asphaltting	Completed
31	Erosion Control at Isikwe Road Oji River	Isikwe , Oji River Enugu State	December 2020	100%	Earthworks, Concrete Works and Asphaltting	Completed

32	Erosion Control on Checking Point Umunomo Ihuowere Road, Igboukwu Aguata, Anambra State	Igboukwu Aguata, Anambra State	December 2020	100%	Earthworks, Concrete Work and Asphaltting	Completed
33	Construction of Origodo Access Road, Ebe Ukpok, Nnewi South, Anambra State	Ebe Ukpok Nnewi South, Anambra State	December 2020	100%	Earthworks, Concrete Work and Asphaltting	Completed
34.	Erosion Construction Works at Eke-Obokwu Ezinhite, Imo State	Eke-Obokwu Ezinhite, Imo State	December 2020	100%	Earthworks, Concrete Work and Asphaltting	Completed

Boreholes constructed by the Authority in 2020

S/N	PROJECT NAME	LOCATION	LEVEL OF COMPLETION	REMARKS (COMPLETED OR ONGOING)
1	Provision of Solar Powered Borehole at Ovurukwu Amaudi Obizi Ezinihitte LGA, Imo State	Ovurukwu Amaudi Obizi Ezinihitte LGA, Imo State	100%	Completed
2	Nneamaka Water Project Reticulation Extension Ifittedunu Dunukofia LGA, Anambra State	Ifitedunu, Dunukofia LGA, Anambra State	100%	Completed
3	Constuction of Solar Borehole at Umukoro Nbawsi Isiala Ngwa Abia State	Umukoro Nbawsi Isiala Ngwa Abia State	100%	Completed
4	Provision of Motorised Borehole at Umuokehi Eziala Obizi Ezinihitte Mbaise LGA, Imo State	Umuokehi Eziala Obizi Ezinihitte Mbaise LGA, Imo State	100%	Completed
5	Construction of Borehole at Umuezeurola Umuawa Alaocha, Abia State	Umuezeurola Umuawa Alaocha Umuahia, Abia State	100%	Completed
6	Rehabilitation of Solar Powered Borehole with Reticulation Works at Enugu Ezike Igbo Eze LGA, Enugu State	Enugu Ezike Igbo Eze LGA, Enugu State	100%	Completed
7	Rehabilitation of Water Works including Reticulation Network in Airbda Headquarters Agbala, Imo State	Agbala Owerri North LGA, Imo State	100%	Completed
8	Solar Powered Borehole with 1km Reticulation at Agueze Ahiara Ahiazu Mbaise LGA, Imo State	Aguneze Ahiara Ahiazu Mbaise LGA, Imo State	100%	Completed
9	Provision of Solar Powered Borehole at Ubahu Nsulu Isiala Ngwa LGA, Abia State	Ubahu Nsulu Isiala Ngwa LGA, Abia State	100%	Completed
10	Construction of Solar Powered Borehole at Nnarambia Ahiara Imo State	Nnarambia Ahiara Imo State	100%	Completed

11	Construction of Solar Powered Borehole with 1km Reticulation at Umuagha Obiato Umuezeala Ama Ehime Mbano, Imo State	Umuagha Obiato Umuezeala-Ama Ehime Mbano Imo State	39%	Ongoing
12	Rehabilitation of Okpala Water Scheme, Ngor Okpala LGA, Imo State.	Okpala in Ngor Okpala LGA, Imo State	100%	Completed
13	Solar Powered Borehole at Naze Community in Owerr North LGA, Imo State	Naze Community in Owerr North LGA, Imo State	100%	Completed
14	Solar Powered Borehole at Obibiezna Community, in Owerr North LGA, Imo State	Obibiezna Community in Owerr North LGA, Imo State	100%	Completed
15	Completion of Ongoing Handpump Borehole at Umuoti Inyishi Community Ikuduru Imo State	Umuoti Inyishi Community in Ikeduru Imo State	100%	Completed
16	Uburu Rural Water Scheme, Ebonyi State	Uburu Ebonyi State	100%	Completed
17	Construction of Ezealapkaka Water Project at Ehime Mbano LGA, Imo State North Senatorial District, Imo State	Ehime Mbano LGA, Imo North Senatorial District	100%	Completed
18	Construction of Solar Powered Borehole at Owerr West LGA Owerr Municipal/North/West Federal Constituency, Imo State	Owerr West LGA - Owerr Municipal / North/ West Federal Constituency - Imo State	100%	Completed
19	Provision of Solar Powered Borehole at Ugwuanye/Ojebeogene, Enugu State	Ugwuanye/Ojebeogene, Enugu State	100%	Completed
20	Ohafia/ Nkporo Water Project, Abia North Senatorial District, Abia State	Ohafia/Nkporo, Abia North Senatorial District Abia State	-	Ongoing
21	Provision of 2No. Hand Pump Borehole at Awkunanw Enugu, South LGA, Enugu State	Awkunanw Enugu South LGA Enugu State	100%	Completed
22	Solar Borehole \Overhead Tank at Ajamu Umuoji, Ebonyi State	Ajamu Umuoji Ebonyi State	100%	Completed
23	Rehabilitation of Amaorji Ama Water Scheme Mbaise, Imo State	Amaorji Ama Ezinihitte Mbaise LGA, Imo State	100%	Completed
24	Construction of Exit Water Project at Uwani Amabokwu Aku Igbo Etiti LGA, Enugu State	Uwani Amabokwu Aku, Igbo Etiti LGA, Enugu State	52%	Ongoing
25	Conversion of Motorised Borehole to Solar Powered Borehole in the five,(5) Eastern States	Various Locations Within the South East	100%	Completed

26	Water Borehole and Reticula in Owelleemba Udi/Ezeagu Enugu State	Owelleemba Udi / Ezeagu Enugu State	53%	Ongoing
27	Construction of Water Proj at Agbani in Nkanu LGA, Enugu State	Agbani in Nkanu LGA, Enugu State	88%	Ongoing
28	Provision of Hand Pump Borehole at Oboma Nguru, Imo State	Oboama Nguru Imo State	100%	Completed
29	Construction of Motorised Borehole at Ezelu Okwe OnuimoLGA, Imo State	Ezelu Okwe Onuimom LGA, Imo State	100%	Completed
30	Construction of Borehole including Reticulation Udi/Ezeagu, Enugu State	Udi / Ezeagu Enugu State	100%	Completed
31	Construction and Reticulation of Water Scheme at Ubahanri Aji Oru, West LGA, Imo State	Ubahaneri Aji Oru West LGA, Imo State	100%	Completed
32	Provision of Borehole in Ubulu Oru West LGA, Imo State	Ubulu Oru West LGA, Imo State	100%	Completed
33	Construction of Solar Powered Borehole at Ezza Ntezi Ishielu LGA, Ebonyi State	Ezza Ntezi Ishielu LGA, Ebonyi State	100%	Completed
34	Provision of Borehole in Ideato Communities, Imo State	Ideato Communities Imo State	100%	Completed
35	Construction of Borehole at Umuezeurola Umuawa Alaocha Umuahia, Abia State	Umuezeurola Umuawa Alaocha Umuahia, Abia State	100%	Completed
36	Construction of 10 Nos Handpumps in Effium Ohaukwu LGA, Ebonyi State	Effium Ohaukwu LGA, Ebonyi State	100%	Completed
37	Solar Powered Borehole at Agbala Community in Owerri North LGA, Imo State	Agbala Community in Owerri North LGA, Imo State	70%	Ongoing
38	Construction of Solar Powered Borehole in Ikiri Effium Ohaukwu LGA, Ebonyi State	Ikiri Effium Ohaukwu LGA, Ebonyi State	100%	Completed
39	Construction of Solar Powered Borehole at Central Sch Udenyi Umuezeoka Ezza North LGA, Ebonyi State	Udenyi Umuezeoka Ezza North LGA, Ebonyi State	100%	Completed
40	Construction of Solar Powered Borehole and Reticulation at Amavum Okue Ivo LGA, Ebonyi State	Amavum Okue, Ivo LGA, Ebonyi State	100%	Completed
41	5 No Handpump Boreholes in each of the six (6) Federal Constituency of Ebonyi State	6 Federal Constituency of Ebonyi State	100%	Completed
42	Construction of Solar Borehole with Fetching Points in Ohanze Isiahia Obingwa LGA, Abia State	Ohanze Isiahia Obingwa LGA, Abia State	100%	Completed

43	Provision of Solar Powered Borehole with Ret at Eziudo Ezinitte LGA, Imo State	Eziudo Ezinihitte LGA, Imo State	100%	Completed
44	Provision of Motorised Boreholes in Osso Edda, Amasiri and Unwana Communities, Ebonyi State	Osso Edda, Amasiri and Unwana Communities, Ebonyi State	100%	Completed
45	Solar Powered Borehole at Umuogbo Ekposhi Igboeze North LGA, Enugu State	Umuogbo - Ekposhi, Igboeze North LGA, Enugu State	100%	Completed
46	Construction of 4Nos Solar Power Boreholes in Gombe South Senatorial District, Gombe State (New)	Okolochi / Emeabiam Owerri West LGA, Imo State	100%	Completed
47	Provision of Solar Borehole at Okolochi/ Emeabiam, Imo State	Gombe South Senatorial District, Gombe State	100%	Completed
48	Construction of Solar Powered Boreholes in Various Comms of Ahiazu Mbaise LGA/Ezinihitte LGA, Imo State	Various Communities of Ahiazu Mbaise LGA/Ezinihitte LGA, Imo State	100%	Completed
49	Provision of Motorised /Hand Boreholes and Installation of Solar Street Lights in Ebonyi/Ohaukwu Federal Constituency, Ebonyi State	Ebonyi/Ohaukwu Federal Constituency	100%	Completed
50	Water Supply Schemes in Owerri Municipal, Owerri West Federal Constituency	Owerri Municipal/ North/West Federal Constituency	100%	Completed
51	Provision of Solar Powered Borehole at Okue Community, Ivo LGA, Ebonyi State	Okue Community, Ivo LGA, Ebonyi State	100%	Completed
52	Provision of Borehole at Umuokpo Ntu in Ngor Okpala LGA, Imo State	Umuokpo Ntu in Ngor Okpala LGA	100%	Completed
53	Drilling of Motorised Borehole at Strategic Areas in Akili-Ozizor, Nzam Okpoko, Housing Fegge, Odoakpu, Umunakwo, Akili-Ogidi, Ogwuaniocha, Umumbo, Umuoba-Anam Omor, Anaku, Inoma, Awkuzu, Umuem, Omor, Ohita, Nteje Umerum, Atani, Oroma-Etiti, Eziagulu-Out, Omagba in Anambra North Senatorial District, Anambra State	Igbedor, Umueze-Anam, Ogbakuba, Atani, Odekpe, Ugwunakpankpa, Awada, 3-3, Marine Akpaka, Nkwelle-Ezunaka, Amiyi in Anambra North Senatorial District, Anambra State	100%	Completed

54	Installation of Solar Powered Boreholes at Igbedor, Umueze-Anam, Ogbakuba, Atani, Odoekpe, Ugwun akpanka, Awada, 3-3, Marine Akpaka, Nkwelle-Ezunaka, Amiyi in Anambra North Senatorial District, Anambra State	Orie-Ikpa Ring Road, Ahiazu-Mbaise LGA, Imo State.	100%	Completed
55	Construction of Solar Powered Boreholes in Bende Federal Constituency, Abia State	Bende Federal Constituency, Abia State	100%	Completed
56	Solar Powered Borehole including Reticulation at Amaudi Obizi Ezinihitte, Imo State	Amaudi Obizi Ezinihitte, Imo State.	100%	Completed
Zonal Boreholes				
1	Provision of Solar Powered Borehole in Ideato North and South Federal Constituency, Imo State	Ideato North and South Federal Constituency, Imo State	100%	Completed
2	Provision of Solar Powered Borehole in Osina Community Ideato North, Imo State	Osina Community Ideato North, Imo State	100%	Completed
3	Completion of Motorised Borehole at Ulakwo Enyiogugu, Aboh Mbaise, Imo State	Ulakwo Enyiogugu, Aboh Mbaise	100%	Completed



Rehabilitation of Headquarters Office Complex



Solar Powered Borehole with 1km Reticulation at Aguneze Ahiazu Mbaise, Imo State



Rehabilitation of Lower Anambra Irrigation Project Omor Anambra State

Maintenance of the Authority's Palm Plantation at the Headquarters



**Construction of Water Scheme and Reticulation in Itim-Edda Afrikpo
South LGA, Ebonyi South Senatorial District Ebonyi State**

4.1.1.8.6 Internally Generated Revenue in 2020

During the year under review, a total of (Fifteen Million, Eight Hundred and Ninety-Eight Thousand, Three Hundred and Twenty Naira (N15,898,320.00) were internally generated as revenue.

Detail breakdown was as follows:-

S/N	SOURCES	AMOUNT (₦)
1	Staff Quarters Rent	1,111,200.00
2	Training Centre	648,000.00
3	Tender Fees	4,070,000.00
4	Sale of Agric Produce(Headquarters)	10,057,620.00
5	Miscellaneous	11,500.00
	TOTAL	15,898,320.00

4.1.1.8.7 Specific Challenges/Constraints

The Authority experienced some constraints in the course of executing its statutory functions. Some of these constraints were:

- i. Inadequate funding
- ii. Late approval and releases of yearly appropriations
- iii. High cost of lubricants (diesel, petrol and oil)

4.1.1.8.8 Way Forward / Future Direction of the Authority

- i. Adequate funds should be made available for the establishment of projects in the states where feasible and to encourage graduate youths within these areas to form cooperatives who will participate in food production as well as for the procurement of new plants and machinery for extension services.
- ii. Farm input including fertilizers and agro chemicals should be made available and affordable to farmers.
- iii. RBDA's should provide full extension services to farmers within their project areas.

- iv. There is urgent need to re-build the palm oil mill to improve on the value chain of the oil palm activities. This will reduce loss of revenue being experienced now as it will serve both the Authority and the surrounding communities.
- v. There is also the need to expand the palm plantation by planting new improved oil palm seedlings.
- vi. Existing infrastructure should be fully rehabilitated in order to enhance the revenue generation base.
- vii. There is need to develop at least one major irrigation /dam project in each state in order to enhance creation of job opportunities and food security as well as increase the revenue base of the Authority.
- viii. Government should consider exploring the use of alternative source of power (e.g. solar energy) for running the LAIP in view of the exorbitant cost of diesel.
- ix. The proposal of lifting water by gravity from Adada River to Lower Anambra Irrigation Project (LAIP) in order to achieve double season cropping of rice is also another alternative.
- x. Rehabilitation of all existing structures, farm road / canal etc.

4.1.2 **BENIN-OWENA RIVER BASIN DEVELOPMENT AUTHORITY**

4.1.2.1 **Introduction**

Benin-Owena River Basin Development Authority (BORBDA) is one of the River Basin Development Authorities. BORBDA is fully owned by the Federal Government of Nigeria and is supervised by the Federal Ministry of Water Resources.

The area of operation of the Benin-Owena River Basin Development Authority (BORBDA) covers the regions of Rivers Benin and Owena and one Senatorial District in Delta State. In geographical terms, this translates to the whole of Edo State, Ekiti State, Ondo State and one senatorial District in Delta State.

The Authority's headquarters is in Obayantor, 24km from Benin-City on the Benin-Sapele Road in Edo State while Area Offices are maintained in:

- a. Auchi (Edo State)
- b. Asaba (Delta State)
- c. Akure (Ondo State)
- d. Ikere-Ekiti (Ekiti State)

4.1.2.2 **Vision Statement**

To take a lead in the comprehensive development of surface and underground water resources for multipurpose use with particular emphasis on the provision of irrigation infrastructure and watershed management

4.1.2.3 **Mission Statement**

- a. To ensure sustainable access to safe and sufficient water resources and to meet the cultural and socio-economic development needs for all users.

- b. To contribute to the public health, eradicating poverty, enhancing food security using proven technology and friendly work force while maintaining the integrity of fresh water ecosystems of the basin.

4.1.2.4 **Staff Strength**

The Authority has a staff strength of three hundred and forty-nine (349) made up of two hundred and sixty-three (263) males and eighty-six (86) females

4.1.2.5 **Promotion**

The Authority in 2020 successfully conducted a promotion exercise for both senior and junior cadres staff. In all, a total of forty-eight (48) staff made up of forty-four (44) senior and four (4) junior staff were promoted.

4.1.2.6 **Recruitment**

During the year under review, the Authority recruited a total of fifty-six (56) staff to its work force. This comprised fifty (50) senior and six (6) junior staff.

4.1.2.7 **Discipline**

Twenty-Seven (27) members of staff comprising nineteen (19) senior and eight (8) junior staff were disciplined by the Authority.

4.1.2.8 **Advancement**

A member of staff was advanced by the Authority in 2020

4.1.2.9 **Abscondment**

Three (3) members absconded from their duties during the period under review.

4.1.2.10 **Dismissal**

Three (3) members comprising one (1) senior and two (2) junior staff were dismissed from the Authority in 2020.

4.1.2.11 **Death**

The Authority lost one of its staff during the period under focus.

4.1.2.12 **Board Matters**

The Authority held three (3) Board Meetings in 2020. The three (3) meetings dwelt extensively on the formulation of appropriate strategies for smooth running of the Authority and approval of 2020 promotion.

4.1.2.13 **Training**

During the year under review, twenty-seven (27) members of staff benefitted from various training programmes.

4.1.2.14 **Activities of Agric Services in year 2020**

S/NO	ACTIVITIES	ACHIEVEMENTS	CHALLENGES	REMARKS
1	Ukpoke Irrigated Project	Prepared farm land for participating farmers, 18ha, ploughed and harrowed	<ul style="list-style-type: none"> i. Bad road to the farm ii. Herdsmen invasion iii. Non-functional cpis for irrigation 	<ul style="list-style-type: none"> i. Trenching round the farm to help prevent herdsmen encroaching ii. Fixing of the bad road to the farm.
2	Isua Irrigation Project	116ha, out of which 2ha leased to a farmer, 20ha proposed for gyes to crop cassava.	<ul style="list-style-type: none"> 1. The commercial farmer has not commenced activities 2. Secondary growth of vegetation 	<ul style="list-style-type: none"> i. Leased to commercial farmer for maize & cassava cultivation. ii. Land to be cleared and some ploughed
3	Ewulu Poultry	Raising of 2,000 layers	<ul style="list-style-type: none"> 1. Bad road 2. No irrigation facility 3. Poor ventilation of poultry house 	The road leading to the farm and the poultry house should be repaired
4	Itaogbolu Poultry	Production of eggs and sales of 1,708	Rehabilitation of poultry house	The poultry is in state of disrepair and

S/NO	ACTIVITIES	ACHIEVEMENTS	CHALLENGES	REMARKS
		culled birds	and soak away	need rehabilitation.
5	Ikere Poultry	Raising of 500 broilers and 3300 layers, produced eggs, they will be culled in March 2021		About six (6) poultry buildings rehabilitated and available to be rented out to poultry farmers.
6	BORBDA Integrated Farm Poultry	A total of 1950 broilers raised, out of which 1734 were sold		Provision of more boreholes for water supply to the integrated farm
7	Obayantor Poultry	A total of 2,100 broilers raised and 1454 was produced	<ul style="list-style-type: none"> i. Poor ventilation of poultry house ii. Inadequate preparation prior to arrival of chicks iii. Inadequate space for rearing of birds 	Rehabilitation of poultry houses and provision of soak away.
8	BORBDA Integrated Farm Piggery	Opening stock of 234pigs, by June a total of 363 pigs had been produced out of which 129 were sold. Closing stock nil due to infection of African swine fever.	<ul style="list-style-type: none"> i. Paucity of funds ii. Under feeding iii. Disease infection (outbreak of African swine fever) in the month of June. 	Biosecurity is advised to be adopted. Pigs should be cleaned up and repopulated
9	Egor Piggery	Opening stock 108pigs, sold 32pigs. Closing	1. Untimely release of funds	A total change of approach in management practice

S/NO	ACTIVITIES	ACHIEVEMENTS	CHALLENGES	REMARKS
		stock 101pigs	2. Under feeding	is strongly advised
10	BORBDA Integrated Farm, Fishery	A total of 8,000 catfish reared, 6763 produced	1. Inadequate fund for provision of feed 2. Under feeding of fish 3. High mortality and theft	1. The fish did no attain market size in time. 2. Provision of fund
11	Owena Dam Reservoir	186,170 catfish weighing 268,822kg was harvested	1. Bad road and lack of electricity 2. Villagers invasion and theft	1. Provision of good road an electricity to the dam 2. Sensitization of the villagers about the project.
12	Crops: Borbda Integrated Farm, Cassava	Complete harvest of 18 ha (52,487kg) cassava from 1 st phase 20ha. And harvest of 2 nd phase of 20ha commenced in November 3086kg of cassava harvested.		
14	Cucumber	5312.5kg harvested		
15	Okra	783.8kg harvested		
16	Pepper	1099.7kg harvested		
17	Tomatoes	2521.8kg harvested		
18	Sweet Corn	4843cobs harvested		
19	Pumpkin Leaves	651wraps harvested		
20	Pawpaw	1162 pieces harvested		
21	Plantain	23bunches		

S/NO	ACTIVITIES	ACHIEVEMENTS	CHALLENGES	REMARKS
		harvested		
22	Auchi Integrated Farm	<ul style="list-style-type: none"> i. 89kg groundnut harvested from 5ha of groundnut farm ii. Commenced harvesting of 10 ha of cassava 	Farm ravaged by monkeys and herdsmen	Low output
23	Okpe Integrated Farm	<ul style="list-style-type: none"> i. 100ha available, land clearing on-going ii. Construction of infrastructure on going 	.	
24	Uneme-Nukhua Integrated Farm	<ul style="list-style-type: none"> i. 100ha available, ii. Land clearing on-going 		
25	Obayantor Feed Mill	Production of 2,706 bags of 25kg feeds (layers)	Fluctuating cost of production as a result of high cost of feed ingredients	Bulk purchase of feed ingredients is recommended
26	Obayantor Irrigated Nursery	<ul style="list-style-type: none"> i. Raised 12,974 sprouted oil palm seeds, 12,661 seedlings survived and due for transplanting. ii. Raised 1000 coconut seeds, 973 germinated still expecting more to germinate. iii. Raised 2000 dwarf pawpaw seeds, 730 survived, sold 64 seedlings 	<ul style="list-style-type: none"> i. Lack of constant supply of water in the nursery ii. Under estimated cost of production due to increase in planting materials. iii. Wrong timing for nursing 	There should be constant supply of water for irrigation at the nursery

S/NO	ACTIVITIES	ACHIEVEMENTS	CHALLENGES	REMARKS
27	Obyantor Oil Palm Plantation	29,068 bunches harvested from 88ha		<ul style="list-style-type: none"> i. Good performance ii. Routine maintenance and treatment necessary
28	Ukhun-Erah Project	250ha available, only 7ha of cassava cultivated.	<ul style="list-style-type: none"> i. Commercial farmer not utilizing the land optimally ii. Substantial part of the land is un-cleared 	<ul style="list-style-type: none"> i. Leased to commercial farmer for maize & cassava cultivation. ii. Land should be cleared
29	Illushi-Ega-Ora	100ha rice cultivated	Bad road & flooding from the river bank	Ownership of the land should be addressed and documented.
30	Ewulu Farm Project	18ha cassava & maize	<ul style="list-style-type: none"> i. Bad road ii. Land ownership with community and families iii. Land not utilized optimally by commercial farmer 	Leased to commercial farmer
31	Ikere Ekiti Farm	Cultivation of 20ha plantain plantation & cassava		Leased to commercial farmer
32	Ayede Irrigation Farm	<ul style="list-style-type: none"> i. 50 ha available only 8ha cassava & maize cultivated. ii. Repair of cpis is on-going iii. The dam is 	<ul style="list-style-type: none"> i. The cpis is yet to function ii. Few fishes in the dam 	Fingerlings/juveniles in cages should be introduced.

S/NO	ACTIVITIES	ACHIEVEMENTS	CHALLENGES	REMARKS
		<p>leased to a farmer for fishing activities</p> <p>iv. Not all the land has been cleared</p>		
33	Iju Farm Project	<p>i. 100ha available</p> <p>29 ha cassava and plantain planted</p>	The land is not well cleared, not tractor –able so farmers are rejecting the land.	
34	Owena Dam Farm	<p>i. Over 2,500ha available, some farmers cultivated cassava, maize and plantain</p> <p>ii. More land should be cleared</p>	Bad road to the farm	Reconciliation of the farmer is on-going
35	Araromi Farm	<p>i. 27ha cassava & vegetables</p> <p>ii. No functional irrigation</p>	Land ownership, it's under contention with the community	
36	Illah-Ebu	60 ha rice cultivated	<p>i. Flooding of farm</p> <p>ii. Weed control is problematic</p> <p>iii. non-functional irrigation (cpis)</p>	64ha irrigation available, 215 ha available for rain fed farming
37	Benin Table Water Factory	102,404 bags of sachet water and 5,531 of bottled water produced.	Poor returns from the factory.	Leased to a factory manager
38	Borehole Water (Central Road)	Sales of 418 tankers of borehole water.		
39	Akure Table	29,673bags of sachet water		

S/NO	ACTIVITIES	ACHIEVEMENTS	CHALLENGES	REMARKS
	Water Factory	produced		
40	Cold Room Services	Substantial income was realised from the cold room		

4.1.2.15 Projects Executed by the Authority in 2020

4.1.2.15.1 Owena Multipurpose Dam and Irrigation Project

The project is located in Ondo. It involves construction of 24 metres high, 36 cubic metre reservoir capacity, irrigation and hydro-power components. The dam components of the project are in place. Site clearing of 100 ha of farmland was carried out in year 2020.

4.1.2.15.2 Ukhun-Erha Irrigation Project

The project was conceived mainly for construction of 250 ha in the planned irrigation area using already completed Ukhun-Erha dam. During the period, 1 No. borehole was drilled at the project site

4.1.2.15.3 Oye Irrigation Project

The aim of this project is to irrigate 100 ha of land using water from Ayede dam by construction of irrigation infrastructure such as intake point canals and distribution reservoir etc. During the period under review, the rehabilitation of access road and clearing work was still ongoing.

4.1.2.15.4 ILLah-Ebu Irrigation Project

This project involves provision of necessary infrastructure for 300 ha of irrigable land. In year 2020, rehabilitation of project houses and surface dressing of Ebu road were carried out.

4.1.2.15.5 Ewulu Irrigation Project

This project was earmarked to provide irrigation infrastructure such as intake point, canals and distribution reservoir of 50 ha of land. The achievements on the project in year 2020 include the rehabilitation/maintenance of the project which was 100% completed and construction of two side drains.

4.1.2.15.6 Headquarters Development

During the period of this report, the Authority carried out a number of projects at the Headquarters. The major ones include:

- i. computerization of Headquarters and Solar Power connection, Benin City;
- ii. renewable energy/power supply upgraded for Headquarters development
- iii. upgraded/expanded existing oil Plantation and Pressing Mill at the Headquarters
- iv. upgraded Water Processing Factory at the Headquarters, Benin City.
- v. Rehabilitation of office building project houses and internal roads as well as the access road in Obayantor community in Ondo State.

4.1.2.16 Other Projects Executed by the Authority in 2020

S/N	PROJECT TITLE/DESCRIPTION	SPECIFIC ACHIEVEMENTS
i.	Otuo Dam and Water Supply Project	Dam component was already in place
ii.	Issele-Uku Erosion Control Aniocha LGA, Delta State	The project was 100% completed
iii.	Provision of Fish-Cages at the Ogwashi-Uku Multipurpose Dam, Delta State	3 Nos. Imported fish cages was constructed
iv.	Clearing and some ploughing of irrigable farmland at Supare, Akoko South West LGA, Ondo State	Clearing and some ploughing of 35 ha irrigable farm
v.	Upgrade of Facilities, Expansion and Procurement of Water Bottling plants in Benin City, Edo State	Supplied and installed Ghile Sachet Water Packaging machine, water filter, UV light for water treatment.
vi.	Erusu, Arigidi Akoko Earth Dam and Irrigation Project: Construction of Downstream Irrigation Works The project involves construction of earth dam to store 29 m cm of water for multipurpose use at Erusu and provision of irrigation infrastructure to 200 ha of land	Achievement Installation of hydrological stations
vii.	Erio-Ekiti/Osin Dam and Irrigation Project This involves construction of a dam to irrigate 100 ha of farm and other multi-purpose uses.	50% of the farmland was cleared.
viii.	Construction of Drainage at Fanibi Akure South LGA, Ondo State	Drainage Structure constructed
ix.	Agua Irrua Water Scheme (Rehabilitation)	Routine Operation and maintenance of the project Supplied of diesel to run the generating set
x.	Imiegba Water Scheme	The project was 100% completed
xi.	Isua Irrigation Project	Provision of electricity to the project was still ongoing.
xii.	Iju/Itaogbolu Irrigation Project	i. Rehabilitation and installation of movable irrigation ii. Clearing of farmlands
xiii.	Rehabilitation of Plant and Equipment	i. Repair of movable vehicles and supply of fire extinguisher ii. Rehabilitation of plant and

		equipment.
xiv.	Aramoko Poultry Farm	Site clearing and fence construction
xv.	Lampese Farm Project	Drilling of 1 No. Borehole

4.1.2.15.17 Food Security

The Benin–Owena River Basin Development Authority Integrated farm is fashioned after the Songhai integrated organic farms with the headquarters in Port-Novo, Republic of Benin.

The integrated farm comprises various farm enterprises like Poultry, Piggery, Fishery (Aquaculture) the Agro-forestry and the Market Garden section. A unique farming method, the integrated farm is entirely organic, with no use of synthetic or inorganic fertilizer, pesticide, herbicide, fungicide or any other conventional chemicals used in present day agriculture.

Production of Pumpkin at Songhai Farm Obayantor, Benin City Edo State



Production of Papaw at Songhai Farm Obayantor, Benin City Edo State



Production of Fish in concrete fish pond at Songhai Farm Obayantor, Benin City Edo State



Production of Cucumber at Songhai Farm Obayantor, Benin City, Edo State



Oil Palm Plantation in Obayantor, Benin City Edo State



Palm Fruits



Pig Production in Songhai Farm Obayantor, Benin City Edo State

4.1.2.18 **General Challenges / Constraints**

- i. Inadequate budgetary provision and untimely releases of appropriate funds
- ii. Inability to access funds in the Treasury Single Account (TSA) for recurrent expenditures that are revolving in nature.
- iii. Delay in budget harmonization and releases
- iv. Non active involvement of the private sector organizations in water sector.
- v. Weak community and stakeholders participation.
- vi. Inadequate awareness on the relationship between sanitation and good health.
- vii. Inadequate hydrological monitoring stations for better prediction of hydrological and environmental phenomena.

4.1.2.19 **WAY FORWARD**

- i. Adequate budgetary provision and timely releases of appropriated funds will enhance budget implementation in the Authority
- ii. Early budget harmonization, releases, and procurement of the projects will ensure speedy implementation of the budget for the financial year.
- iii. There should be active involvement of the private sector in water resource management.
- iv. There should be active community and stakeholders participation.
- v. Adequate hydrological and meteorological monitoring stations for better prediction of hydrological and environmental phenomena should be put in place.

4.1.3 **CHAD BASIN DEVELOPMENT AUTHORITY**

4.1.3.1 **Intrduction**

The history of the Chad Basin Development Authority could be linked to the cycle of drought in the Lake Chad region, which prompted the Common Wealth Development Commission (CDC) to conduct studies on irrigated agriculture along the banks of River Ebeji to mitigate the effects of drought. The encouraging results from these studies made the then Government of the Northern Region to establish additional schemes at Gamboru Ngala on the banks of River Ebeji and Yau irrigation scheme on the bank of river Yobe.

Following another severe drought and famine in the northern parts of Nigeria in 1972 and 1973; and with the results of the above studies at hand the then Federal Military Government in collaboration with Food and Agriculture Organization of the United Nation (FAO), Common Wealth Development Commission (CDC) and Lake Chad Basin Commission (LCBC) established the South Chad Irrigation Pilot Project (SCIPP) for further studies with a view to establish larger irrigation project. Having an encouraging result from the pilot project, the then Federal Military Government decided to establish the South Chad Irrigation Project under an autonomous body responsible for the general development of the whole Basin area within the Nigeria sector, hence the creation of Chad Basin Development Authority.

4.1.3.2 **Area of Operation**

The Headquarters of Chad Basin Development Authority is located in Maiduguri, Borno State. The area of its operation is the whole of Borno and Yobe States excluding those parts drained by the Jama'are and Misau Rivers systems but including those parts of Adamawa State drained by the Yedseram and Goma Rivers systems which include 4nos. Local Government Areas namely Michika, Madagali, Mubi North and Maiha.

4.1.3.3 **Vision:**

To provide sustainable access to safe and sufficient water resources to meet the cultural, social and economic development needs of all Nigerians, for all uses, in ways that contribute to enhancing public health, food security, eradicating poverty while maintaining the integrity of fresh water ecosystem of the nation.

4.1.3.4 **Mission:**

To be the vehicle of the nation's integrated water resources management; contributing optimally to the socio-economic activities of the nation through comprehensive planning, facilitating and creating the enabling environment for integrated conservation, development and management of various water uses for the preservation of the quality and quantity of fresh water ecosystem for environmental protection, adequate access to safe water and sanitation, production of sufficient food and employment opportunities for sustainable livelihood, as well as equitable allocation of the aforementioned amongst Nigerian communities locally and international water.

4.1.3.5 **Training:**

Twelve (12) members of staff benefitted from various training programmes in 2020.

4.1.3.6 **Board Meeting:**

The Authority held two (2) Board Meetings in 2020. The two meetings focused on the security situation in the various States within the catchment areas of the basin and its attendant impacts on the projects and programmes of the CBDA.

The meetings also developed robust strategies including Key Performance Indicators (KPIs) for measuring the performance of the Authority and implementation of 2020 budget

4.1.3.7 **Core Projects Executed by the Authority in 2020**

4.1.3.7.1 **South Chad Irrigation Project**

The South Chad Irrigation Project (SCIP) was established in 1973. The project has potential irrigable area of 67,000 hectares comprising 22,000 hectares in stage I, 27,000 hectares in stage II and 18,000 hectares in stage III. The project was commissioned in 1979 and as at 1982 all major components for stages I & II were completed. Due to insecurity problems in the area, the level of destruction of the project was alarming.

4.1.3.7.2 **Alau Dam**

Alau Dam is situated 22 kilometers South of Maiduguri. It is 112 MCM capacity dam completed in 1988.

4.1.3.7.2.1 **Achievement in 2020**

- i. Maintaining the dam integrity to provide raw water to Borno State Water Board (BSWB).
- ii. Rehabilitation/Reconstruction of breached portion of dyke 2 and the clearance works at upstream face of auxiliary spillway.

- iii. Supply of 1 No. Payloader ZL50CN Wheel loader.
- iv. Supplied 6 Nos. Project vehicles, 5 Nos. Toyota Corolla Saloon Executive and 1 No. Toyota Camry Saloon Executive.

4.1.3.7.3 **Jere Bowl Rice Scheme**

Under this project, 8,000 hectares of rice was cultivated and water was usually released in phases from Alau Dam into the bowl between June and November each year. Underground water was also usually harnessed through washbores /tubewells with portable pump during dry season to enhance the productivity of over 2,000 farming families.

4.1.3.7.3.1 **Achievements in 2020**

- i. Additional 300 ha was developed thereby empowering many farming families in the area
- ii. Tractor and farm instrument were procured.

4.1.3.7.4 **Small Scale Irrigation Schemes**

There are four small scale irrigation schemes operated by the Authority, namely: Gora Irrigation Scheme in Borno State, Gashua Irrigation Scheme, Ngalda Irrigation Scheme in Yobe State and Michika Irrigation Scheme in Adamawa State.

Under these schemes, water from stream and rivers as well as groundwater are being harnessed for irrigation. So far the following has been achieved in these schemes as listed below:-

4.1.3.7.4.1 **Gora Irrigation Scheme**

Operated on the banks of river Gongola, this scheme has 50hectares developed under gravity irrigation system and has potential for expansion to 400hectares if the necessary water control and regulation dykes & weirs are put in place. The project is expanded to cover additional 8Ha through Construction of additional 17 nos. tube wells equipped with portable irrigation pumps. Additional 17 farm families were empowered in 2020.

4.1.3.7.4.2 **GarinGada / Ngalda Irrigation Scheme**

Operated on the banks of the tributaries of River Yobe in Nangere L.G.A. The scheme has 108 hectares developed but spread across communities. Over 100farming families were benefiting from this scheme with the cultivation of rice during rainy season and wheat & assorted vegetables during dry season. Additional 19 farm families were empowered in 2020.

4.1.3.7.4.3 **Gashua Irrigation Scheme**

Operated on the banks of River Yobe, it has 120 hectares developed. Crops grown are rice and wheat. 120 farmers are participating in this project. The project has potential for expansion to 2,500 ha, out of which 2000 ha is to be developed in phase I and II. The project is aimed at increasing irrigable land and creating jobs to teeming populace of this small irrigation project. 2000 ha was developed and 77 farming families benefitted from this in 2020 through construction of 77 nos. tube wells equipped with portable irrigation pumps.

4.1.3.7.4.4 **Michika Irrigation Scheme**

Operated on the banks of River Yedzaram, this scheme has 50 hectares developed, and has potential for expansion to 500 hectares across the project area. The project was expanded by additional 20 ha through construction of 39 nos. tube wells equipped with portable irrigation pumps thus empowering additional 39 farm families in 2020 directly.

4.1.3.7.4.5 **River Training and Channelization works on Hadejia Jama'are Komadugu Yobe River (HJKYB)**

Under this project, the Authority intended to increase access to land by more than 2000 ha, reclaim land, increase flow of regime through the training and channelization works of 64 kilometres in order to prevent or control flood.

During the period under review, the Authority made the following achievements on the project:-

- i. Procurement of prime mover with Winch, 1 No. Payloader ZL50CN wheel and 10,000 litres capacity truck tanker.
- ii. Supply of 135,000 litres of AGO (diesel, lubricants and service filters)

4.1.3.7.4.6 **Headquarters Development**

The Authority in 2020 rehabilitated a number of headquarters infrastructure in order to provide conducive working environment. The following were achieved in 2020 on the project

- i. Renovation and furnishing of 4 Nos. Block of offices.
- ii. Procurement of Liaison Office at Abuja
- iii. Rehabilitation of Guest House/Lodges
- iv. Rehabilitation of 7 Nos. Intermediate staff quarters and a number of senior staff quarters
- v. Rehabilitation of water supply system and reticulation works.

4.1.3.8 **Surface Water Management in Borno, Yobe and north part of Adamawa States**

Progress made on the project in 2020 was mainly construction of 230 metres retaining and drop structure for the control of flood and erosion in addition to 260 metres drainage.

4.1.3.9 **Supply of Irrigation Equipment**

The Authority in 2020 supplied irrigation equipment towards empowering of the farming communities within the catchment areas, as presented below:

- i. Supplied irrigation pumps to Nangene/Potiskum Federal Constituency.
- ii. Supplied irrigation pumps to DogoNini in Potiskum LGA and 3” irrigation pumps to Chauino in Nangere LGA, Yobe State.
- iii. Supplied 3” water pumps with accessories in Borno North Senatorial District, Borno State.
- iv. Supplied 3” water pumping machines for Ngala and Kala Balge LGA, Borno State.

4.1.3.10 **Hydromet Activities**

In 2020, 1 no. hydrological station on River Yedzaram and Gombole Confluence installed at Alau to enhance data collection and collation for the planning of irrigation activities was Established.

4.1.3.11 **Other Projects Executed in 2020 were as listed on the table.**

S/N	Project Title	Specific Achievements in 2020	Remarks
i.	Ground Water Development in Agro Service Centres in Projects and Area Offices (Supply of complete drilling materials for middle aquifer borehole)	Increased access to potable water supply and improve sanitation and hygiene through the supply of working materials for the construction of lower aquifer boreholes at Marte	100%
ii.	Procurement of 2" Water Pumping Machines for Bama LGA, Borno State	150 Nos. Farmers empowered in irrigated agriculture through the Distribution of portable irrigation pumps and delivery hoses	100%
iii.	Erosion Control Work / Land Reclamation and Drainage Works in Borno, Yobe and North Part of Adamawa States.	Erosion control / land reclamation and drainage works structure constructed	100%

S/N	Project Title	Specific Achievements in 2020	Remarks
iv.	Rehabilitation and Reinforcement of the Local dyke around Karage Village, Jakusko LGA, Yobe State	Local dyke around Karage Village rehabilitated and reinforced	100%
v.	Design for the Construction of Irrigation Infrastructure for 2000 ha at Lava, Yobe State.	Design of the irrigation infrastructure completed	100%
vi.	Replacement of Light and Duty Vehicles, farm machines and equipment	Light and heavy duty vehicles as well as the farm machines and equipment replaced	100%
vii.	Procurement of 1 No. 60 ton capacity low bed, tyres and batteries	1 No. 60 ton capacity low bed, tyres and batteries procured	100%
viii.	Repairs of: a. Bull Dozer from SCIP in Ngala b. Bull Dozer, Howo Tipper Bed SD16 Bull Dozer at the AHQ and Excavator Cummins	Repair of all the equipment specified	100%
ix.	Drilling of 19 Nos. tubewells for Irrigation at SaboGarinNgalda, Gadana and Maluri& Land Development at Lafia LeleforNgalda/GarinGada Irrigation Scheme	19 Nos. tubewell for irrigation purpose procured	100%
x.	Procurement of 5 nos. Mercy Feguson with implement in Borno South Senatorial District, Borno State	5 Nos. MerceyFeguson with implement for Borno South Senatorial District procured.	100%
xi.	Drilling of 77 Nos. tubewells for irrigation at Dapchi in Bursari LGA, Yobe State	77 Nos. tubewell for irrigation purpose procured	100%
xii.	Development of Gashua Irrigation Project (Irrigation Project Development, Procurement of tractor and farm implement), Gashua, Bade LGA, Yobe State.	Design and construction of irrigation infrastructure for 2,000 ha	100%
xiii.	Complete Reticulation and Control Structures at Abari, Monguno LGA, Borno State	Reticulation facilities constructed in order to increase access of potable water supply	100%
xiv.	Development of additional 255 ha at Michika irrigation	Additional 255ha for irrigation project developed	100%

S/N	Project Title	Specific Achievements in 2020	Remarks
	Project (Irrigation Project Development, Procurement of Tractor and Farm Implement)		
xv.	Development of additional 225 ha at Gora Irrigation Project (Irrigation project development, procurement of tractor and farm implement)	Additional 225ha for irrigation project developed.	100%
xvi.	Provision of solar powered boreholes with full accessories Dikwa/Mafa/Konduga Federal Constituency, Borno State	Procurement of solar powered boreholes with full accessories for the provision of potable water	100%
xvii.	Drilling of 39 Nos. tubewells for Irrigation at Digel in Mubi and Michika for Michika Irrigation Scheme	39 Nos. tubewells for irrigation drilled	100%
xviii.	Storage facilities, construction of 2 million surface tank and 1 million overhead tank complete with accessories at Abari	Storage facilities constructed	100%
xix.	Provision of 4 Nos, 2 middle aquifer and 2 lower aquifer boreholes complete with accessories at Abari, Monguno LGA, Borno State	4 Nos, 2 Middle Aquifer and 2 Lower Aquifer Boreholes with complete accessories for provision of potable water and irrigation	100%

4.1.3.12 Boreholes constructed in 2020 (Name / Location, Level of Completion)

S/N	PROJECT TITLE	POPULATION SERVED	% OF PRESENT STATUS
i.	Ground Water Development in Agro Service Centres in Projects and Area Offices (Supply of Complete Drilling Materials for Middle Aquifer Borehole)	2500	100%
ii.	Drilling of Motorized Borehole in Kareto Town in Mobbar Local Government Area, Borno State	2500	100%
iii.	Construction of 3nos Industrial Solar Powered Boreholes in Borno Central Senatorial District	2500	80%
iv.	Provision of Motorised Borehole with Plastic Tank and Generator at Gagawa Malumti Village, Gubio	500	100%

S/N	PROJECT TITLE	POPULATION SERVED	% OF PRESENT STATUS
	LGA, Borno State		
v.	Provision of Solar Powered Boreholes at Gadaka, Sayo and Gamari Villages in Fika/Fune Federal Constituency, Yobe State	500	100%
vi.	Solar Powered Boreholes in Dikwa/Mafa/Konduga Federal Constituency, Borno State	1500	100%
vii.	Construction of Motorized Boreholes in 241 Batalion Barracks Nguru LGA, Yobe State	1500	100%
viii.	Provision of 10nos. Handpump Boreholes at Gwangeii & iii Ward in Maiduguri, Borno State	5000	100%
ix.	Solar Powered Boreholes in Nangere / Potiskum, Yobe State	2500	100%
x.	Provision of Water Supply Schemes at Auno Konduga LGA and Bugur Ward Buratai	1500	100%
xi.	Provision of 9nos Solar Borehole in North Senatorial District, Yobe State	4500	
xii.	Provision of 3Nos. Solar Powered Boreholes in North Senatorial District, Yobe State	3000	100%
xiii.	Provision of 6Nos. Solar Powered Boreholes in North Senatorial District, Yobe State	3500	100%
xiv.	Construction of Solar Powered Boreholes in Nguru/Yusufari/Karasuwa/Machina Federal Constituency, Yobe State	5000	100%
xv.	Construction of Solar Powered Borehole at Jajimaji Village	1500	100%
xvi.	Completion of Drilling of Wash Boreholes and Supplying of Irrigation Pumps in Fika/Fune Federal Constituency, Yobe State	na	100%
xvii.	Provision of Solar Powered Boreholes with full accessories in Dikwa/Mafa/Konduga Federal Constituency, Borno State	1500	50%
xviii.	Provision of 4 Nos, 2 Middle Aquifer and 2 Lower Aquifer Boreholes complete with accessories at Abari and Environs	100000	100%
xix.	Construction of Motorised Boreholes in Gashua and Jakusko Towns Bade LGA	5000	
xx.	Construction of 3Nos. Motorized Boreholes in Gashua Bade LGA, Yobe State	5000	100%
xxi.	Construction of 3Nos. Motorized Boreholes in Jakusko LGA, Yobe State	4500	100%
xxii.	5 Nos of Motorised Boreholes in Nangere/Potiskum	4500	
xxiii.	3Nos. of Motorized Boreholes at Kukar Awu, Tikau Ward & Old Nangere in Nangere, Yobe State	3500	100%
xxiv.	2Nos. of Motorized Boreholes at Duddaye & Garin Alhajeri in Nangere, Yobe State	3000	100%
xxv.	Construction of 12Nos Solar Powered Boreholes for nomadic settlements in Jakusko and Machina LGA, Yobe State	5000	
xxvi.	Construction of 4Nos. Solar Powered Boreholes for nomadic settlements at Lamido Manu Banguwa Garin Saje, Bukma Buske Malawai, Lamido Sari Bobbaga Shege & Lamido Yura Rubba in Jakusko LGA, Yobe State	4500	100%
xxvii.	Construction of 4Nos. Solar Powered Boreholes for	3500	100%

S/N	PROJECT TITLE	POPULATION SERVED	% OF PRESENT STATUS
	normadic settlements at Rugan Alh. Gari, Rugan Hardo Tuse, Rugan Lawan Mainajo & Rugan Kakeru Kudu Da Maisirdi in Machina LGA, Yobe State		
xxviii.	Construction of 12Nos Solar Powered Boreholes for normadic settlements in Yusufari and Karasuwa LGA, Yobe State	4000	
xxix.	Construction of 4Nos.Solar Powered Boreholes for normadic settlements at Rugan Wakil Kolo, Rugan Lamido Jabgaro, Dole Kulle & Gawa Rawa Kullen Mallam Gambo in Yusufari LGA, Yobe State	3500	100%
xxx.	Construction of 4Nos.Solar Powered Boreholes for normadic settlements at Biriri Lamido Isa Karasuwa Garin Gana, Lamido Lauwal Waro, Kublen Lamido Jeji Jajimaji & Kublen Maina Kararuwa Galu in Karasuwa LGA, Yobe State	4000	100%
xxxi.	Construction of 12Nos Solar Powered Boreholes for normadic settlements in Nguru And Bade LGA, Yobe State	5000	
xxxii.	Construction of 4Nos Solar Powered Boreholes for normadic settlements at Umaru Lamido Ngelbowa, Rigan Wakili Mega, Alh. Mai Jamaá & Hardo Bello Chairman Miyetti Allah in Nguru LGA, Yobe State	3500	100%
xxxiii.	Construction of 4Nos Solar Powered Boreholes for normadic settlements at Umaru Gidado Ngelbowa, Hardo Kundi Mainari, Jatau Saboru & Lamido Gangaran in Bade LGA, Yobe State	3000	100%
xxxiv.	Provision of Handpump Boreholes in Gashua Town	500	100%
xxxv.	Construction of 200Nos Handpumps Boreholes across Yobe North Senatorial District, Yobe State.	3500	
xxxvi.	Construction of Handpumps Borehole across Yobe North Senatorial District, Yobe State (31Nos. Bade LGA)	500	100%
xxxvii.	Construction of Handpumps Borehole across Yobe North Senatorial District, Yobe State (19Nos. Jakusko LGA)	500	100%
xxxviii.	Construction of Handpumps Borehole across Yobe North Senatorial District, Yobe State (19Nos. Karasuwa LGA)	500	100%
xxxix.	Construction of Handpumps Borehole across Yobe North Senatorial District, Yobe State (31Nos. Nguru LGA)	500	100%
xl.	Construction of Handpumps Borehole across Yobe North Senatorial District, Yobe State (19Nos. Machina LGA)	500	100%
xli.	Construction of Handpumps Borehole across Yobe North Senatorial District, Yobe State (19Nos. Yusufari LGA)	500	100%

4.1.3.13 Internally Generated Revenue:

During the period under review, a total sum of Fifteen Million, Three Hundred and Forty-Three Thousand Naira (N15,343,000.00) was realised as the internally generated revenue.

Detail breakdown was as follows:-

S/N	NAME OF REVENUE ITEM	AMOUNT GENERATED (N)
i.	House Rent Charges	2,839,000.00
ii.	Sales of Farm Produce	7,424,000.00
iii.	Hiring Charges	4,590,000.00
iv.	Tender Fee	490,000.00
	TOTAL	15,343,000.00

4.1.4 **CROSS RIVER BASIN DEVELOPMENT AUTHORITY**

4.1.4.1 **Introduction**

The Cross River Basin Development Authority (CRBDA) is a parastatal under the supervision of the Federal Ministry of Water Resources and is fully owned by the Federal Government of Nigeria. The Authority's area of coverage includes Cross River and Akwa Ibom States. It has headquarters in Calabar, Cross River State.

The Authority was formally inaugurated on the 26th May, 1977 with mandates to develop water resources for multi –purpose use and socio-economic needs of the catchment area through dam construction, irrigation scheme, boreholes and the management of flood and erosion control project.

4.1.4.2 **Staff Strength**

During the period under review, the Authority has a total staff strength of three hundred and seventy-five (375). This comprised two hundred and ninety-two (292) senior and eighty-three (83) junior staff. In term of gender, there are two hundred and eighty-four (284) males and ninety-one (91) females.

4.1.4.3 **Recruitment**

The Authority in 2020 recruited a total of thirty-five (35) staff. This was made up of eight (8) senior and twenty-seven (27) junior staff.

4.1.4.4 **Promotion**

The Authority successfully carried out the promotion exercise in 2020. In all, a total of sixty-eight (68) staff made up of sixty-five (65) senior and three (3) junior were promoted.

4.1.4.5 **Death**

The Authority lost two (2) of its staff during the year under review.

4.1.4.6 **Retirement**

One staff retired from the Authority in 2020.

4.1.4.7 **Board Matters**

The Authority held two (2) Board Meetings in 2020 to initiate policies for enhancement of the smooth running of the organization. The Board, during one of its meetings approved 2020 senior staff promotion.

4.1.4.8 Projects and Programmes Executed by the Authority in 2020

4.1.4.8.1 Abak Irrigation Project

The project with irrigation area of 62 ha, is located in Abak Local Government Area of Akwa Ibom State. It was designed to provide infrastructure, technical support services/input to farmers in areas such as land preparation, irrigation, agronomic practices and management of pest/disease with the aim of ensuring all year round production.

Achievements recorded by the projects in 2020 include: -

- i. Revenue of N60,000 was generated from sales of farm produce
- ii. Cultivation of 60ha of land (35Ha) for first season and 25ha for second season)
- iii. Registration of women farmers group in the project in collaboration with Akwa Ibom State Government
- iv. Additional 250 farming families added to the existing number of farmers
- v. Participation in a nutritious food fair exhibition in Uyo
- vi. Installation of 150KVA generator at the project
- vii. Installation of Centre Pivot Irrigation Facility
- viii. Installation of a cassava processing mill (working)
- ix. Repair of project generator and construction of generator house
- x. Repairs of project borehole for domestic use.

4.1.4.8.2 Oniong Nung Ndem Irrigation and Drainage Project

The project is located in Oniong Nung Ndem, Onna Local Government of Akwa Ibom State. It has an irrigation land of 388,722 ha with provision of irrigation facilities to support all year round farming at Oniong Nung Ndem.

Achievements made on the project in 2020 included:

- i. Land preparation and allocation
- ii. Development of additional 50ha of land
- iii. Increase in the number of farming families to 450

4.1.4.8.3 **Obudu Dam and Irrigation Project**

The project is situated at Okwei-Obudu in Obudu Local Government Area of Cross River State, with a reservoir capacity of 4.2MCM and irrigation area of 115 ha. The project involved impoundment of River Abeb for water supply, irrigation, flood control and tourism.

During the year under review, the progress made on the project included:

- i. cultivation of 1 hectare of demonstration farm with maize, garden egg and cucumber using the seed fund in the first season cropping; and
- ii. completion and commissioning of a solar powered borehole for the provision of water for domestic use.

4.1.4.8.4 **Obubra/Owakande Irrigation Project**

The project, which is located in Obubra/Owakande in Obubra Local Government Area of Cross River State with sizeable area of 315 ha was conceived to ensure all year round agricultural production through provision of irrigation facilities.

The socio-economic benefits expected from the project include increase in food production, employment generation, poverty eradication and improved standard of living as well as the reduction in rural urban migration.

Achievements made in 2020.

- i. Supply of tractor and implements to ObubraOwakande Irrigation project.
- ii. Repairs of tractors and supply of lubricants (1 drum of engine oil and 1 drum of tellus Oil).
- iii. Construction of solar powered water scheme at Obubra Irrigation Project office.
- iv. Supply of 5 sets of executive office furniture to CRBDA office and 5 sets of regular office furniture to project office.
- v. Supply of agrochemicals (fertilizers, herbicides, insecticides, knap sack sprayers and 2 rolls of 2' dia water syphon).

- vi. Supply of agrochemicals, lubricants and motorcycles at Obubra Irrigation project.
- vii. Establishment of a more harmonious relationship with the host community.

4.1.4.8.5 **Ogoja Irrigation Project**

The project is situated at Ogoja in Ogoja Local Government Area of Cross River State. It has an irrigation land of 125 ha and was earmarked for provision of infrastructural facilities for small scale irrigation to farmers at Ogoja.

Achievements in 2020

- i. Cultivation of 35ha of various crops under rainfed and 10ha of Okro under Irrigation.
- ii. Establishment of a new Cooperative Okro Women in the Irrigation that attracts assistance from non-governmental organization (NGO) and government.
- iii. Construction of project entrance gate (ongoing).

4.1.4.8.6 **Itu Irrigation, Flood Control and Drainage Project**

The project is located in Itu Local Government Area of Akwa Ibom State. It has a size of 1,265 ha which had been earmarked to provide irrigation, flood control and drainage infrastructure to ensure all season cultivation of farmland along the cross river floodplain of Itu.

Achievements in 2020

- i. 20 hectares of land cultivated
- ii. Construction of 5000 gallons of steel overhead tank and reticulation of water to the irrigation field as well as provision of four Armord cable to link the generator to transformer.
- iii. Repairs of tractor
- iv. Provision of 1 plough, 1 harrow and 1 ridger.

4.1.4.8.7 **Ijegu Yala Multipurpose Dam and Irrigation Project**

The project is located at Ijegu-Yala in Yala Local Government of Cross River State. It is a multipurpose dam constructed with a reservoir capacity of 33 MCM with irrigation area of 2,500 ha. The dam is being used for water supply, flood control, recreation and fisheries development.

During the year under focus, the Authority made the following achievements on the project:

- i. study and design of Hydro Electric Power for IjeguYala Dam
- ii. Installation of Drip Irrigation System;
- iii. supply of agrochemicals, knap sack sprayers and syphon at Ijeguyala project office;
- iv. construction of farm access road and culvert (Phase II); and
- v. procurement of farm implements and safety tools for Ijeguyala irrigation project.

4.1.4.8.8 **Calabar River Project**

The project is located at Uwet in Odukpani Local Government Area of Cross River State. It was conceived to provide infrastructural facilities for 1000 ha irrigation land in order to ensure all year round agricultural production.

During the year under review the following were achieved:

- i. construction of earth access road from EkperiIbami to Uwet bridge (7km); and
- ii. extension works on the coast of Calabar River (IkotEtonko Road) project at Uwet Akamkpa LGA, Cross River State)

4.1.4.8.9 **Cross River Basin Headquarters Farm**

The Cross River Basin Headquarters farm is located in Basin Town, Calabar. It involves cultivation of 85ha of farmland, provision of technical services/input to farmers in areas such as land preparation, irrigation, agronomic practices and management of pest/diseases with the aim of ensuring all year round food security. In year 2020,8.5ha of land was cultivated and pepper in green house were successfully irrigated.

In year 2020 the following projects witnessed the completion of land acquisition process, land clearing and Construction of access roads:

- i. Akim Akim Farm Project
- ii. Eto Mkpe Farm Project
- iii. Ikot Okon Idem Farm Project
- iv. Akamkpa Farm Project

4.1.4.8.10 **Kwa Falls Dam and Irrigation Project**

The project is located in Oberekai Village, Akamkpa Local Government Area, Cross River State. It involves construction of a multipurpose dam for irrigation of 5,720ha of land, water supply, flood control, creation and fishery development.

During the period under focus, the Authority made the following achievements: -

- i. Construction of access road
- ii. Development of 45ha of land
- iii. Establishment of 5ha of plantain
- iv. Creation of farm paths

4.1.4.8.11 **Songhai Farm Project**

The Federal Ministry of Water Resources mandated all River Basin Development Authority to establish Songhai Farms. To kick – start this project, the CRBDA is taking over the Songhai Cross River State located in Abi LGA of Cross River State. The MOU for this project was being processed.

Management sponsored five (5) staff to Songhai Model Farm, Porto Novo, Benin Republic to understudy the Songhai Model Farm operation.

In an attempt to remodel the Headquarters farm project to fit into the Songhai Model, the following components were introduced:-

- i. Poultry farming – layers farm with 1800 capacity poultry farm (layers) was introduced. Unfortunately, this was looted during the #ENDSARS protest.
- ii. Green House – four (4) Nos. was also installed and was also vandalised by #ENDSARS
- iii. The facility for Aqua pond which is integrated cultivation of fish and crop is currently under construction
- iv. Piggery farm under construction

4.1.4.8.12 **Obudu Floating Fish Cage Culture**

Under this project, the following were recorded in year 2020

- i. supplied and installed Six (6) number floating fish cages at the Obudu dam reservoir
- ii. stocked Six thousand (6,000) post fingerings of catfish.

4.1.4.8.13 **Fisheries Development**

The Rehabilitation of the two in-house ponds of the headquarters fish farm was completed within the period under review.

The following facilities were supplied: A gas/Charcoal fish smoking kiln

4.1.4.8.14 **Hydromet Stations**

To fulfill its mandate of developing the water resources of the catchment area of Akwa Ibom and Cross River States, the Authority maintains a network of hydrological stations on some rivers for water level monitoring and discharge measurements. The Authority has thirteen (13) existing manual gauging stations in Akwa Ibom and Cross River States out of which eleven (11) were functional and two (2) non functioning ones.

Achievements made were:

- i. Assessment of the weather and hydrological stations in Akwa Ibom and Cross River states to determine the operational status of the stations and equipment.
- ii. Serviced project laptops (12 Nos) for retrieval of data from automatic weather and hydrological stations.
- iii. Retrieved monthly data from the Basin School weather station.
- iv. Maintenance of Basin School weather station.
- v. Assisted in the assemblage and installation of the meteorological garden enclosure at the Basin School Complex by Nimet.
- vi. Received thirteen (13 Nos) weather equipment from Nimet for installation at the Basin weather station.

4.1.4.8.15 **Constraints**

- i. Poor funding and late releases
- ii. Unpaid and accumulation of wages for the gauge readers
- iii. No funds for the maintenance of all stations therefore maintenance of stations and equipment was not possible for the year
- iv. Lack of support staff for the unit
- v. Covid-19 lockdown
- vi. Loss of equipment, laptops, accessories and other related items during the #ENDSAR protest

4.1.4.8.16 Erosion and Flood Control Projects Existing/Ongoing in 2020

A number of ongoing Erosion and Flood control projects which started in earlier years were implemented in 2020 within the limits of provided funds, they are listed below:

S/N	PROJECT TITLE / LOCATION	STATUS	REMARKS
1	Rehabilitation of farm land road behind University of Calabar	100%	Completed
2	Erosion control works to reclaim farm landat Nung Ikot Udoffiong at Oruk Anam LGA, Akwa Ibom State	100%	Completed
3	Erosion Control Works for the Anating Lane Calabar South LGA, Cross River State	100%	Completed
4	Construction of Basin Town Community erosion control works, Calabar	100%	Completed
5	Construction of erosion control works at various locations in Akwa Ibom and Cross River States	100%	Completed
6	Construction of erosion control project at Nung Ediene - Ikot Asenimo Road, Etinan LGA, Akwa Ibom State	100%	Completed
7	Construction of erosion control works at Ebom Abi LGA, Cross River State	100%	Completed
8	Construction of erosion and flood control works nearPCN, Effi, Okuni, Ikom LGA, Cross River State	100%	Completed
9	Study and Design Of Erosion Control works/road pavement of 2,89km rural access link roads to widows mite agro-processsing & sme cluster in Ikot Etok Udo, Abak LGA, Akwa Ibom North West	75%	Ongoing
10	Study and designed of erosion control works/road pavement of at Nko, Obot, Akara LGA, Akwa Ibom State	100%	Completed
9	Construction of roads in Alok-Ogomogom, Boki/Ikom, Cross River State	100%	Completed
10	Construction of Okangha Kekor Road slump control project (section 2)Ikom LGA, Cross River State	100%	
11	Construction of 1.2km road, drainage and asphaltting at Umuegba Ibagwa - Aka, Igbo Eze South LGA, Enugu State	100%	Completed

12	Grading and asphaltting of 1.8km inner roads and drainage at Umu Osai Street, Ishi Ohulo Street and erection of integrated solar street light, Enugu State	100%	Completed
13	Odongget - Ekuri/Etara road flood and erosion control programme section 1 Odonget-Lotuni Steam Section	100%	Completed
14	Odongget - Ekuri/Etara road flood and erosion control programme section 2: Odonget-Lotuni Steam- Ekuri/Etara Community	100%	Completed
2020 ZONAL INTERVENTION PROJECTS			
15	Bulldozing / Grading of farm road at Ekori Yakurr LGA, Cross River Central Senatorial District, Cross River State	100%	Completed
16	Bulldozing / Grading of Kakwagom - Ndok - Ogoja Road, Boki LGA, Cross River Central Senatorial District, Cross River State	100%	Completed
17	Grading Of Obubra - Ogada Road, Obubra LGA, Cross River Central Senatorial District, Cross River State	100%	Completed
18	Construction of Bridge at Osopong, Obubra LGA, Cross River Senatorial District, Cross River State	100%	Completed
19	Grading of Road from Iyamoyong to Ikom - Calabar Road, Obubra LGA, Cross River Central Senatorial District, Cross River State	100%	Completed
20	Construction of Akamkpa Town Internal Roads Akamkpa LGA, Cross River State	100%	Completed

4.1.4.8.17 **Other Achievements made by the Authority in 2020**

During the period under review, the following additional achievements were recorded:

- i. rehabilitation of farm land road behind University of Calabar;
- ii. erosion control works to reclaim farm land at Nung Ikot Udoffiong at Oruk Anam LGA, Akwa Ibom State;
- iii. erosion control works for the Anating lane Calabar South LGA, Cross River State;

- iv. construction of Basin town community erosion control works, Calabar;
- v. provision of complete automated water factory unit / extruders for sachet bags / bottles / purchase of delivery van at the headquarters, Cross River State;
- vi. onstruction of E- library / soil and water analysis lab / survey in headquarters, Cross River State;
- vii. composite skill acquisition and youth development with infrastructure at Etomi and Bendeghe communities Etung LGA, Cross River State;
- viii. supply of materials for dry season farming at Ogoja Irrigation project, Ogoja LGA, Cross River State;
- ix. continuation of rehabilitation works at Obudu Dam Irrigation project, obudu LGA, Cross River State;
- x. provision of green house at headquarters, Cross River State;
- xi. construction of cottage fish farm and youth agricultural training centre in ONNA LGA, Akwa Ibom State;
- xii. construction of entrepreneurial and skill acquisition centers at Ikot Udofia in Ini & Bakana in Ika LGAs of Akwa Ibom State;
- xiii. construction of solar powered boreholes, 4no solar powered bore holes in Boki LGAs, Cross River State;
- xiv. continuation of works on the construction of comprehensive skill acquisition center (provision of sporting facilities) at Ifa Ikot Akpan, Uyo, Akwa Ibom State;
- xv. installation of all-in-one solar lighting system (JRB solar specification) across Ikpamodo Enugu - Ezike, Uburu Ibagwa Nkwo and Ebrunmiri, Enugu State;
- xvi. renovation of secondary school, Ukam Mkpatenin, Ikot Abasi / Mkpat Enin/ Eastern Obolo Federal Constituency, Akwa Ibom State;
- xvii. construction of classroom blocks at Obanliku / Obudu / Ekwarra Federal Constituency, Cross River State; and
- xviii. construction community town hall at Adim Biase LGA, Cross River State.

4.1.4.8.18 **Rehabilitation of Water Projects in Cross River and Akwa Ibom States**

- i. 46 Nos of vandalized/nonfunctional borehole/mini water project were rehabilitated in various locations in Cross River State within the year under review
- ii. 13 Nos of vandalized/nonfunctional borehole/mini water project were rehabilitated in various locations in Akwa Ibom State.

4.1.4.8.19 **Commercial Services Division:**

In the period under review, the Commercial Services Division recorded the following achievements:

- i. meeting Registration requirement for the food safety and inspection services (FSIS) of the Ministry of Health, and standard Organization of Nigeria
- ii. evacuation and disposal of expired dangerous chemicals in the buildings of the water factory
- iii. successful control of the legal action against the water factory at the early part of the year
- iv. process for the renewal of registration for sachet water almost completed
- v. revenue of #75,000 (Seventy-Five Thousand Naira) was generated from renting of conference hall, football field and school field.

4.1.4.8.20 **Challenges:**

- i. Revenue for year 2020 was seriously hampered by COVID – 19 Pandemic and the resultant lockdown.
- ii. The #ENDSAR protest vandalized most of the commercial services facilities, equipment, material and structures was a colossal setback for the division.
- iii. Irregular / Non-payment of wages to casual staff working in the water sachet factory and Guest house has dampen the enthusiasm and commitment of workers.

4.1.4.8.21 **Recommendations:**

- i. The expected purchase of two additional sachet water machines and an automatic bottle line should be actualized

- ii. All facilities looted during the #ENDSAR protest should be restored
- iii. Regular payment of workers' salary and wages should be ensured
- iv. Plant and equipment that are kept in exclusive reserve of the Department of Engineering should be under the management of commercial division for proper operation and accountability

4.1.4.8.22 **Water Sanitation and Hygiene (WASH)**

Under the WASH programme, the following were achieved during the period under review.

- i. Sensitization campaign on COVID-19 pandemic at CRBDA Primary and Secondary Schools.
- ii. Distribution of Hand wash soap, hand Sanitizer, Sanitizer dispenser, and hand wash buckets to all CRBDA project officers, Schools, Guest House and water factory.
- iii. Construction of Open Defecation Free Facility (P-WASH TOILET).
- iv. Collaboration with EKAP – ACHI FOUNDATION to organize a workshop on guide to End Open Defecation (ODF)

4.1.4.8.23 **Details of Revenue Generation in 2020**

During the period under review, the Authority generated a total of Fourteen Million, Sixty-Eight Thousand, Six Hundred and Forty Naira (N14,068,640.00) only was realized as internally generated revenue. Detail is as follows:-

S/N	DESCRIPTION	AMOUNT (₦)
1	Tender Fees	1,870,000.00
2	Hire of Plant/Equipment	185,000.00
3	Rent from government quarters/guest house/building	4,643,040.00
4	Revenue from projects	7,208,100.00
5	Miscellaneous income (conference centre, advert of crbda magazine, canopies, rent of basin field)	162,500.00
	TOTAL	14,068,640.00

4.1.4.8.24 **General Challenges / Constraints**

The Authority is faced with some challenges that hampered the timely actualization of set targets, among these were:

- i. inadequate funding of our mandate projects (Dams and Irrigation/Drainage projects). The Authority appeals to the Federal Ministry of Water Resources to help facilitate financial assistance for the execution of its Core Projects that are viable and will increase food security in the economy of things;
- ii. mismatch of the release of the appropriation and the peakseason for construction in the catchment;
- iii. the Authority's Plant and Machinery which were purchased over 30years ago are dysfunctional and obsolete. Many of them are beyond repairs and need replacement;
- iv. land encroachment by communities;
- v. Vandalization of projects (Water, Irrigation and Solar light); and
- vi. The declining appropriation for overheads has posed a big challenge for the funding of the outsourced services such as compound cleaning/security services, project drivers etc.

Ibonda Water Project in Odukpani LGA, CRS



Supply of Tractor at Abak Irrigation Project, AKS



Water Scheme at Headquarters Farm, Calabar, CRS

4.1.5 **HADEJIA JAMA'ARE RIVER BASIN DEVELOPMENT AUTHORITY**

4.1.5.1 **Introduction**

The HadejiaJama'are River Basin Development Authority is one of the twelve (12) River Basin Development Authorities in the country. It is under the supervision of the Federal Ministry of Water Resources.

The Authority derived its name from the two rivers, River Hadejia in Kano and Jigawa States and River Jama'are in Bauchi State. It covers an Area of 45,000km² (whole of Kano and Jigawa States, and about two-thirds of Bauchi State) with an irrigation development potential of about 212,000 hectares within the Valleys of Hadejia and Jama'are Rivers.

The Administrative Headquarters of the Authority is located at Hotoro, Maiduguri Road, in Tarauni Local Government Area of Kano Municipality.

4.1.5.2 **Mission**

Effective management of water resources for the development of socio-economic activities of the people within the basin through access to water for irrigation, domestic and other uses in a sustainable manner.

4.1.5.3 **Vision**

To be the River Basin Development Authority with the largest functioning infrastructure for agriculture, irrigation and water supply that meets the socio-economic needs of its clientele.

4.1.5.4 **Staff Strength**

The Authority had a total staff strength of three hundred and forty-nine (349) as at 31st December 2020. This comprised two hundred and sixty-four (264) senior staff and eighty- five (85) junior staff.

4.1.5.5 **Resignation**

A member of staff resigned his appointment in 2020.

4.1.5.6 **Death**

During the period under focus, the Authority lost three (3) members of its staff.

4.1.5.7 **Projects/Programmes Executed by the Authority in 2020**

The dams are live wires to the water resources development of the sub- basin. Their maintenance and subsequent operations determine the successful and effective operations of the Kano River Project, Hadejia Valley Project, provision of potable water supply to Kano City, sustenance of informal irrigation along the Hadejia River system in

Kano, Jigawa and downstream users in Yobe, Borno States and the wetlands.

4.1.5.7.1 **Rehabilitation of Challawa Gorge Dam**

The rehabilitation works carried out on the project in year 2020 include:

- i. Repair of the penstock gate to increase water flow pending a more elaborate outlet rehabilitation works.
- ii. Servicing of piezometers and relief wells
- iii. Clearing of dam slopes and treatment of ant hill
- iv. Erosion repairs on the downstream toe of the dam

4.1.5.7.2 **Rehabilitation of Galala Dam**

During the period under review, the Authority equally carried out routine operation and maintenance of irrigation infrastructure in order to enhance water delivery for all year-round crop production.

4.1.5.7.3 **Rehabilitation of Sawe Lake**

Achievements made on the project during the year in focus include

- i. Reconstruction of the concrete spillway and spillway channel
- ii. Rehabilitation and extension of the reservoir embankment to increase storage capacity
- iii. Slope protection works

Sawe Lake Expansion



4.1.5.7.5 **Rehabilitation of Hadejia Barrage**

Key activities carried out on the reservoir during the period under focus include:

- i. Rehabilitation of the heavily eroded 2-Km reservoir embankment and 12 Km North and South dykes;
- ii. Reconstruction of 5 km barrage access road;
- iii. Overhauling of 6 Nos. spillway radial gates for downstream water releases;
- iv. Servicing of 12 Nos. irrigation off-take gates and 3 scour gates;
- v. Clearing of Typha grass from the reservoir using mechanical weed harvester.

4.1.5.7.6 **Construction of Small Earth Dams**

In an effort to supply water to areas where major dams of the Authority cannot supply water for irrigation, the Authority embarked on constructing of small earth dams in such areas in order to harness available water to support irrigated agriculture, domestic water supply, fisheries & livestock development and ecosystem. Such dams constructed during the reporting period were:

- i. Gwani Small Earth Dam in Gwaram LGA, Jigawa State with a storage capacity of 220,000 m³
- ii. TsanyawaWanzamai Small Earth Dam in Tsanyawa LGA, Kano State with a storage capacity of 215,000m³
- iii. Bichi Small Earth Dam in Bichi LGA, Jigawa State with a storage capacity of 120,000 m³
- iv. Construction of Sindimina Earth Dam (201,000 m³), Birnin Kudu LGA, Jigawa State
- v. Construction of Zurkudu Earth Dam (500,000 rn³), Birnin Kudu LGA, Jigawa State
- vi. Rehabilitation of Kwaita Earth Dam



4.1.5.7.7 **Construction and Rehabilitation of Irrigation Schemes**

The following works were carried out on routine basis on these projects during the period under focus in irrigation schemes such as the Kano River Irrigation Project, Hadejia Valley Irrigation Project (KRIP), Katagum Irrigation Scheme, Challawa Karaye Irrigation Scheme

- i. Desilting and clearing of Typha and other aquatic weeds in the North Main Canal (NMC), drains, Distributary canals (DCs) and Night Storage Reservoirs (NSRs);
- ii. Repairs and Servicing of water control gates;
- iii. Repairs of collapsed portions of the NMC and DCS;
- iv. Rehabilitation of access and service roads within the irrigation project.



4.1.5.7.8 Construction of Tube Well-Based Small Irrigation Scheme:

The Hadejia Jama' are River Basin Development Authority has over the years engaged in the development of small-scale irrigation schemes using tube wells and wash bore holes providing rural communities access to irrigated land and opportunities to engage in all year-round crop production.

During the reporting period, the Authority constructed 150 Nos farmer managed small irrigation schemes along with supply of irrigation water pumps at various locations of Authority's area of operation to cover a total irrigable area of 800ha.

4.1.5.7.9 Construction of Udubo-Wabu Small Irrigation Scheme:

The construction of the Udubo-Wabu Small Irrigation Scheme started in 2010 and later abandoned. The project is located in Udubo,

Gamawa LGA, Bauchi State and is intended to provide year-round employment for 125 farm families for the production of 500 metric tonnes of food and cash crops annually. In 2017 the Management of the Authority revisited the project and carried out a design review for completion. The project had been redesigned as borehole-based drip irrigation scheme covering 50 ha out of which the first 20 ha of the scheme is under construction.



**DEEP IRRIGATION BOREHOLES DRILLING AND PUMPING
TEST AT UDUBO-WABU DRIP IRRIGATION SCHEME**

4.1.5.7.10 Flood and Erosion Control Project

The Authority in 2020 executed a number of flood and erosion control projects in the various states under its command which include Kano, Jigawa and Bauchi.

Detail of these projects are presented below:

S/N	Project Title	% Level Of Completion
i.	Flood and Erosion Control at Sabon Gari, Jigawa State	100%
ii.	Sauna-Kawaji Erosion Control and River Bank reclamation works (Left Bank), Nassarawa LGA, Kano	100%
iii.	Katagum Flood Control and Land Reclamation Project, Bauchi State	100%
iv.	Kaidaji-Alkamawa Flood and Land Reclamation Project, Kano State	100%
v.	Construction of Kanta-Imawa Rural access Road, Drainage and Erosion Control Project	100%
vi.	Ajingi/Rinjin Fulani Kura Storm Water and Flood Control Project	100%
vii.	Maigatari Flood Control and Land Reclamation projects, Jigawa State	100%
viii.	University of Dutse Flood and Erosion Control Project, Dutse LGA, Jigawa State	100%
ix.	Mafatayi/KofarGabas, ZengonTagwai, Kawaji and Sauna Flood and Erosion Control, Kano State	100%
x.	RafinArewa (Misau) Flood and Erosion Control Project, Misau LGA, Bauchi State	100%
xi.	Study and Design of Panda/Hamdullahi/Hung Erosion Control in Albasu LGA, Kano State	100%

4.1.5.7.11 Dams and Irrigation Projects

S/N	PROJECT TITLE	% LEVEL OF COMPLETION
i.	Construction of Shangu Small Earth Dam and Irrigation Scheme in Kano State	70%
ii.	Completion of Tsanyawa-Wanzamai Small Earth Dam, Tsanyawa LGA, Kano	45%
iii.	Establishment of Centre Pivot Sprinkler Irrigation Scheme in Tudun Wada LGA, Kano State	30%
iv.	Completion of Katagum Irrigation Project	48%
v.	Rehabilitation and Remodelling of Wudil Pilot Irrigation Scheme for Commercial Operations, Kano State	48%

vi.	Construction of Gamawa Irrigation Scheme, Gamawa LGA, Bauchi	ongoing
vii.	Completion of Sata Small Earth Dam	100%
viii.	Construction of Earth Dam and Irrigation Scheme at Misau, Bauchi State	30%
ix.	Rehabilitation of Warwade Dam and Irrigation Scheme, Jigawa State	100%
x.	Completion of Tafga Earth Dam and Water Supply Scheme	63%
xi.	Construction of Earth Dam and Irrigation Scheme at Maigatari, Jigawa State	
xii.	Completion of Bichi Dam, Bichi LGA, Kano	85%
xiii.	Construction of Kungu and MalikawarGaru Small Earth Dams	45%
xiv.	Typha Grass Control and Management, Jigawa State	Ongoing
xv.	Rehabilitation of HJRBDA Revenue Generating Assets in Kano, Jigawa and Bauchi States	65%
xvi.	Construction of Dagwalo Dam, Birnin Kudu LGA, Jigawa State	ongoing
xvii.	Construction of Gulka/Darazo Earth Dam, Darazo LGA, Bauchi State	30%
xviii.	Construction of Koreyel Earth Dam, Gwiwa LGA, Jigawa State	30%
xix.	Construction of Earth Dam at Danjaka, Bumai Ward, Kano State	100%
xx.	Rehabilitation of 34 Nos Small Earth Dams at Kano, Jigawa and Bauchi States	70%
xxi.	Construction/Completion of Jangefe Earth Dam in Kunchi LGA, Kano State.	100%
xxii.	Small Irrigation Scheme at Kankiya/Kusada/Ingawa Federal Constituency, Katsina State	100%
xxiii.	Small Irrigation Scheme at Kyarana-Kiru LGA, Kano State	70%
xxiv.	Construction of LigadaMakera Small Earth Dam	70%
xxv.	Study and Design of Desilting of Birnin Kudu Dam, Birnin Kudu LGA, Jigawa State	100%
xxvi.	Study and Design of Small Irrigation Schemes in Kano, Jigawa and Bauchi States.	80%
xxvii.	Large Dam Watershed Management and Catchment Access Roads Rehabilitation In Kano, Jigawa and Bauchi States	40%

4.1.5.7.12 Constituency Projects Executed by the Authority in 2020 (Water and Erosion Components only)

S/N	Project Title	% Level Of Completion
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i.	Provision of Water Pump Machines in Miga/Jahun Federal Constituency, Jigawa State	98%
ii.	Construction of Fanda/Hamdullahi/Hungu Erosion Control at Albasu Federal Constituency, Kano State	80%
iii.	Drilling of 20 Nos. Hand Pump Boreholes	95%
iv.	Drilling of 4 Nos. Solar Powered Boreholes at Auyo/Hadejia/Kafin Hausa Federal Constituency, Jigawa State	85%
v.	Rehabilitation of Boreholes in Jigawa North West Senatorial District, Jigawa State	82%

4.1.5.7.13 Boreholes Constructed in 2020 (Name) Location, level of completion)

SN	PROJECT TITLE	LGA/STATE	LEVEL OF completion (%)	TOTAL POPULATION SERVED	REMARKS
1	Solar Powered Borehole with Overhead Tanks in Various Locations in Kano	Kano State	78	40,200	Drilling of 9Nos.Solar Powered Boreholes, Drilling of 11Nos. Hand Pump Boreholes and Rehabilitation of 1No. Solar Powered Borehole
2	Provision of Hand Pump Boreholes Across 11 LGA`s of Katsina South Senatorial District, Katsina State	Malumfashi, Funtua, Kankara, Bakori, Danja, Musawa and Matazu LGAs, Katsina State	99	138,000	Drilling of 115Nos.Hand Pump Boreholes
3	Water Supply Scheme at Ringim Emirate Council, Jigawa State	Ringim LGA, Jigawa State	98	36,000	General Rehabilitation of Solar Powered broken down Boreholes 12NOS. in Ringim
4	Provision/Rehabilitation of Boreholes in Various Locations of Gezawa/Gabasawa Federal Constituency, Kano State	Gezawa and Gabasawa LGAs, Kano State	95	132,000	Construction of 14NOs. Hand Pump Boreholes and Rehabilitation of 30Nos, Hand Pump Boreholes
5	Provision of Hand Pump Boreholes in Zaki Federal	Katagum LGA, Bauchi State	96	6,000	Drilling of 2Nos. Solar Powered Boreholes

	Constituency, Bauchi State				
6	Partnership for Expanded Water Sanitation and Hygienic (PEWASH)	Auyo LGA, Jigawa State	99	120	Construction of 2Nos. Toilets and Sensitisation
7	Rehabilitation of Solar Powered Boreholes in Jigawa Northwest Senatorial District, Jigawa State	Jigawa Northwest	99	48,000	Rehabilitation of 16Nos. Solar Powered Boreholes
8	Purchase of Mini Rice Mill Machine for Farmers and Cooperative Societies in Kano	Sumaila LGA, Kano State	96	12,000	Rehabilitation of 4nos. Existing Solar Powered Boreholes
9	Construction of Solar Powered Boreholes in Auyakari and Tadire Villages in Zaki Federal Constituency, Bauchi State	Zaki LGA, Bauchi State	97	13,800	Drilling of 3Nos. Solar Powered Boreholes, and 4no. of Hand Pumps with accessories and supply and installation of Solar Powered Borehole Accessories
10	Rehabilitation of the Existing Borehole in DawakinTofa Town, Kano State	DawakinTofa LGA, Kano State	97	14,400	Drilling of 2Nos. Hand Pump and Rehabilitation of 10Nos. Broken down Boreholes
11	Solar Powered Boreholes in Jigawa Northwest Senatorial District, Jigawa State	Jigawa Northwest, Jigawa State	73	39,600	Drilling of 4Nos. Solar Powered Boreholes and 3Nos. Hand pump Boreholes and Rehabilitation of 8Nos. Broken down Solar Powered Boreholes
12	Construction of Small Water Schemes at Kurawa, Yola, K/Sani and Larabawa, Kano State	Kano Municipal LGA, Kano State	89	3,600	Drilling of 3Nos. Hand Pump
13	Construction of Motorized Borehole in	Gumel, Maigatari, SuleTankarkar LGAs, Jigawa	91	23,400	Drilling of 7Nos. Solar Powered and 2Nos.

	Gumel/Maigatari/ SuleTankarkar Federal Constituency, Jigawa State	State			Hand Pump Boreholes
14	Water Supply Scheme at UnguwarTsamiya, Jigawa State	Ringim LGA, Jigawa State	95	13,200	Drilling of 11Nos. Hand Pump Boreholes
15	Batali Water Supply	Babura LGA, JigawaState	92	15,000	Drilling of 1No. Solar Powered Borehole, Rehabilitation of 10Nos. Hand Pump Boreholes
16	Provision of MB for communities of Shanono/Bagwai Federal Constituency, Kano State.	Bagwai and Shanono LGA, Kano State	94	18,000	Construction of 15Nos. Hand Pump Boreholes
17	Construction of Rural Water Supply Schemes in Kano, Jigawa and Bauchi States	Kano, Jigawa and Bauchi States	97	9,600	Drilling of 3Nos. Hand Pump Boreholes and 2Nos. Motorized Boreholes
18	Drilling and Equipping of 4Nos. Solar Powered Boreholes and 6Nos. Hand Pump Boreholes in Kaugama/Malam Madori LGAs, Jigawa State	Kaugama and Malam Madori LGAs, Jigawa State	99	12,000	Drilling of 10Nos. Hand Pump Boreholes
19	Construction of Hand Pump Boreholes at Gumel/Maigatari/ SuleTankarkar , Jigawa State	Gumel, Maigatari and SuleTankarkar LGAs, Jigawa State	89	32,400	Construction of 6Nos. Solar Boreholes and 12 No. hand pump boreholes
20	Provision of Motorized Boreholes at Various Locations of Birniwa/Guri/Kiri kasamma Federal Constituency,	Birniwa, Guri and Kirikasamma LGA, Jigawa State	95	12,000	Drilling of 10Nos. Boreholes

	Jigawa State				
21	Water Supply Scheme at Badume, Yakasai and Dangawo Villages	Bichi LGA, Kano State	95	7,200	Construction of 6Nos. Hand Pump Boreholes
22	Construction of Bridges/Water Scheme Reticulation/Solar Powered Boreholes/Motorized/Small Irrigation Scheme in Different Locations Across Ningi LGA, Bauchi State	Ningi LGA, Bauchi State	62	5,000	Improvement of Ningi Town Water Supply,
23	Regional Water Supply in Wudil/Garko Federal Constituency, Kano State	Wudil/ Garko LGAs, Kano State	94	15,600	Drilling of 13Nos. Hand Pump Boreholes
25	Construction of Motorized Boreholes in Kazaure/Roni/Gwaiwa/Yankwashi Federal Constituency, Jigawa State	Kazaure/Roni/Gwaiwa/Yankwashi LGAs, Jigawa State	91	24,600	Drilling of 5Nos. Solar Powered Boreholes and Construction of 8Nos. Hand Pump Boreholes
26	Construction of Solar Powered Boreholes in 12 LGAs of Jigawa North West Senatorial District, Jigawa State.	Jigawa Northwest	65	30,600	Drilling of 7Nos. Solar Powered- boreholes, 8Nos. Hand Pump Boreholes,
27	Water Supply Scheme at Kazaure and Gumel Emirate	Kazaure and Gumel LGAs, Jigawa State	97	68,400	Drilling of 20Nos. Solar and 7Nos. Hand Pump Boreholes
28	Drilling and equipping of 3Nos. Solar Powered Boreholes & 8Nos. Hand Pump	Jigawa Southwest Senatorial District, Jigawa	93	18,600	Drilling and equipping of 3Nos. Solar Powered Boreholes & 8Nos. Hand Pump Boreholes

	Boreholes in Jigawa Southwest Senatorial District, Jigawa State	State			
29	Provision of Solar Powered Boreholes in Gahoni, G.G.S.S Jibiya, Riko, Kauraki, Kadobe, Dume, Bakura and Sorrounding Villages	Jibiya LGA, Katsina State	53	3,000	Drilling of Solar Powered Boreholes
30	Construction of Handpump Borehole across Yobe North Senatorial District, Yobe State	Yobe state	67	30,000	6no. Solar and 10no. Handpump Borehole
31	Construction of Solar Powered Boreholes at Matsai and surrounding communities	Matsai	78	3,000	Drilling of Solar Powered Boreholes
32	Construction of Solar powered Boreholes in Farming communities of Jakusko, Machina, and Karasuwa LGAs, Yobe State	Machina, Yusufari, Bade, and Jakusko/Yobe	69	51,000	Drilling and equipping of 17Nos. Solar powered Boreholes

Photographs of the Projects Showing their Levels of Completion or Projects Commissioned in 2020



The Managing Director, HadejiaJama'are River Basin Development Authority, Kano
Distributing Irrigation Water Pumping Machines to Benefitting Farmers in Jigawa
North West Senatorial District



Flood and Erosion Control Works in progress at Sara Town, Gwaram LGA, Jigawa State



Progress Photograph of Flood and Erosion Control Works in Sara Town, Gwaram LGA, Jigawa State





Part of the rehabilitated irrigation structures at Kano River Irrigation Project



Tomatoes Farmlands at Kadawa Farm Centre, Kano River Irrigation Project





Installation of Solar Powered Pump Based Drip Irrigation at Sawe Pilot Irrigation Scheme, Bauchi State in progress



Installation of Solar Powered Pump Based Drip Irrigation at Sawe Pilot Irrigation Scheme, Bauchi State in progress

A solar powered bore hole drilled at Duniya da Fadi, Bauchi State



COMPLETED AND FUNCTIONAL HANDPUMP BOREHOLE AT GESHI(BULA KUKAWA) GAMAWA LGA, BAUCHI STATE



4.1.5.8 **Internally Generated Revenues in 2020**

During the period under review, the Authority generated a total of N18,783,029.00 (Eighteen Million, Seven Hundred and Eighty-three Thousand, Twenty-Nine Naira).

4.1.5.9 **General Challenges/constraints**

- i. Deterioration of Authority's major dams and irrigation Schemes with cost of rehabilitation far beyond annual budgetary provisions
- ii. Loss of irrigation command areas due to dilapidation of water delivery structures
- iii. Invasion of Hadejia Barrage and RuwanKanya reservoir by typha grass, prime rose and other devastating aquatic weeds
- iv. Lack of irrigation and extension support staff for the effective operation and maintenance of the irrigation Schemes and advisory services to farmers respectively.
- v. Inadequate skilled technical manpower to manage Authority's dams and irrigation projects due to continuous staff exit, retirement from service and deaths.
- vi. Lack of regular staff training for skill improvement due to insufficient budgetary allocations under the recurrent budget.
- vii. Relatively low revenue generation due to ageing revenue generating infrastructure/assets, inadequate staff and poor revenue collection logistics.
- viii. Inadequate budgetary provisions and late budgetary releases

4.1.5.10 **Way Forward/Future Direction of the Authority**

- i. Immediate rehabilitation of major dams and irrigation infrastructure of the Authority to ensure their stability and safety as well as efficient service delivery to the farmers, increased food production and enhanced national food security. Employment of skilled manpower for effective operations and maintenance of infrastructure at all levels.
- ii. Regular training and retraining of staff and full utilization of their potentials
- iii. Organization and capacity building of farmers to prepare them for effective participation in the management of their irrigation schemes
- iv. Reinvigoration of the revenue generation machinery and diversification of revenue sources.

4.1.6 LOWER BENUE RIVER BASIN DEVELOPMENT AUTHORITY

4.1.6.1 **Introduction:**

The Lower Benue River Basin Development Authority (LBRBDA) was established in 1976 along with 11 other River Basin Development Authorities (RBDAs), vide Decree No. 25 of 1976. The main aim of the RBDA is the development of the water resources potential of the country for agricultural, domestic and industrial uses.

The Authority's catchment area covers Benue, Plateau, Nasarawa States, and the eastern part of Kogi State. It covers altogether, ten (10) Senatorial Districts, three (3) each in Benue, Plateau and Nasarawa States, and one (1) from Kogi. The LBRBDA has eighteen(18) farm projects sited in twelve (12) LGAs of the catchment States.

4.1.6.2 **Vision Statement:**

To provide a sustainable access to safe and sufficient water resources to meet the agricultural and socio-economic development needs of the people in our catchment areas, and other various uses in ways that contribute to public health, poverty eradication, enhance food security while at the same time maintaining the integrity of fresh water ecosystem of her catchment area.

4.1.6.3 **Mission Statement:**

The Lower Benue River Basin Development Authority is responsible for planning, conserving, developing, managing and delivering both surface and underground water resources and allied services to all Nigerians in the catchment state of Benue, Plateau, Nasarawa and Kogi (East of River Niger) for multipurpose uses.

4.1.6.4 **Staff Strength**

The Authority has total staff strength of Four Hundred and Forty (440) staff. This comprised Three Hundred and Forty-Seven (347) senior and ninety-three (93) junior staff.

4.1.6.5 **Promotion**

During the year under review, the Authority successfully promoted a total of Sixty-six (66) staff comprising fifty-nine (59) senior and seven (7) junior staff.

4.1.6.6 **Advancement**

During the period of this report, the Authority was able to advance a total number of three (3)made up of one (1) senior and two (2) junior staff.

4.1.6.7 **Upgrading**

Five (5) members comprising three (3) senior and two (2) junior staff were upgraded during the period.

4.1.6.8 **Death**

The Authority lost three (3) of its staff during the year under focus.

4.1.6.9 **Training and Staff Welfare**

During the period under review, the Authority sponsored some management staff on study tour to Dubai and Melbourne while other staff who belong to professional bodies were sent to attend Annual General Meetings (AGMs)/Conferences.

In the area of staff welfare, the Authority distributed Christmas and sallah packages to staff. Also, sentforth ceremony was organized for retirees of 2020/2021.

4.1.6.10 **Board Matters:**

Two (2) Board meetings were held in 2020. The focus of the meetings were to initiate policies for smooth running of the Authority, monitoring and evaluation of the projects as well as to grant an approval for 2020 promotion exercise.

4.1.6.11 **Pension matters**

Six (6) members of staff were enrolled under contributory pension scheme in 2020. Also, the Authority was able to make submission of nominal roll of staff under the contributory pension scheme to PENCOM Headquarters, Abuja. In addition, one of the deceased staff was captured under group life assurance in Abuja.

4.1.6.12 **Summary/Breakdown of the Projects Awarded for Execution On State by State Basis by the Authority In 2020.**

Project Title	No of Projects in Benue State	No of Projects in Nasarawa State	No of Projects in Plateau State	No of Projects in Kogi State	Others States
Medium/Large Dam and Weirs constructed	Nil	4	5	2	1
Small Earth Dam Constructed	1	Nil	2	Nil	Nil
Irrigation infrastructure/Scheme constructed	2	2	1	1	Nil
Irrigation infrastructure/Scheme rehabilitated	Nil	1	Nil	Nil	Nil
New Solar/motorized borehole constructed	34	7	77	5	32
New Hand pump borehole constructed	1	Nil	Nil	Nil	Nil
New surface water scheme constructed	1	Nil	Nil	Nil	Nil
Construction of Small hydropower Scheme	Nil	1	Nil	Nil	Nil
Construction/completion of erosion/flood control projects	Nil	Nil	1	Nil	1
Others					
Study and Design of Bridges	1	2	Nil	Nil	Nil
Study and Design of Road	Nil	1	Nil	Nil	Nil
Study and Design of Dams	1	1	1	1	Nil
Maintenance of Dam slopes	Nil	1	Nil	Nil	Nil
Study and Design of Roads	Nil	1	Nil	Nil	Nil
Construction/rehabilitation of roads	4	7	7	2	2
Construction/rehabilitation of Bridges	3	4	Nil	Nil	Nil
Electrical infrastructure/provision of transformers	2	4	Nil	1	Nil
Provision/installation of solar/inverter power source	1	Nil	Nil	Nil	Nil
Sachet/bottle water production plant	1	Nil	Nil	Nil	Nil
Procurement of the Geographic Information System (GIS) Laboratory Equipment	1	Nil	Nil	Nil	Nil
Construction/rehabilitation of schools	1	Nil	Nil	Nil	Nil
Training/empowerment Programme	Nil	Nil	1	Nil	Nil
Supply of fertilizer to Farmers	Nil	2	Nil	Nil	Nil
Procurement of the Geographic	1	Nil	Nil	Nil	Nil

Information System (GIS) Laboratory Equipment					
IRBM (Hydro-Meteorological Infrastructure)	1	Nil	Nil	Nil	Nil
Construction of Small Water Scheme	1	3	Nil	1	Nil
Completion of the Upgrading of ICT Unit Equipment and Internet Facilities	1	Nil	Nil	Nil	Nil
Completion of the Upgrading of the Authority's Accounting Hardware/Software System	1	Nil	Nil	Nil	Nil
Equipping/Law Book/Furnishing of Legal Department	1	Nil	Nil	Nil	Nil
Human Capital Development (Training)	1	Nil	Nil	Nil	Nil
Fishery/Poultry Development	Nil	1	Nil	1	Nil
Establishment of Songhai Model Farm centers	1	1	Nil	Nil	Nil
Land Clearing	3		2	1	
Establishment of Rice processing plant	1	Nil	Nil	Nil	Nil
Development of GIS/LIS (Land Information System) for all Project Sites in the Catchment Area	1	Nil	Nil	Nil	Nil
Completion of Soil Science Laboratory	1	Nil	Nil	Nil	Nil
Procurement of Assorted Fertilizers, Agro-Chemicals and Improved Seeds	1	1	1	1	Nil
Establishment of Green Houses	Nil	Nil	Nil	1	Nil
Piggery Development	1	Nil	Nil	Nil	Nil
Purchase of Heavy Duty Plant and Equipment	1	Nil	Nil	Nil	Nil
Acquisition of all pending Certificates of Occupancy (C of O)	1	1	1	1	Nil
Supply of Farming implements to Farmers in different locations in Plateau State	Nil	Nil	1	Nil	Nil
Asset Inventory	1	1	1	1	
Monitoring and Evaluation of Projects	1	1	1	1	

4.1.6.13 Core Projects Executed by the Authority in 2020:

S/ N	PROJECT TITLE	% LEVEL OF COMPLETION	REMARKS (ONGOING/ COMPLETED)
i.	Completion of Hydro Power in Doma Project	15%	Ongoing
ii.	Expansion of Concrete Weir at Longkat	88%	Ongoing
iii.	Study and Design of Akpoli Dam in Kogi State	100%	Completed
iv.	Construction of Akpoli Dam at Imame in Kogi State	40%	Ongoing
v.	Construction of Mada Station Dam, Nasarawa Eggon	100%	Completed
vi.	Construction of Giza Dam	27%	Ongoing
vii.	Construction of the Keana Dam	90%	Ongoing
viii.	Construction of Earth-Dam at Ajikamai (Nyak), Shemdam LGA, Plateau State	75.49%	Ongoing
ix.	Construction of Oforachi Dam/Night Storage Reservoir at Idah LGA, Kogi State	40%	Ongoing
x.	Construction of Nasarawa Eggon Dam	40%	Ongoing
xi.	Construction of Earth Dam at Loh-Fan, Barikin Ladi LGA, Plateau State	33%	Ongoing
xii.	Construction of Agric-Layout Dam Ata Owupka, Benue State	46.05%	Ongoing
xiii.	Study and Design of Agric Layout at Owukpa, Benue State	100%	Completed
xiv.	Study and Design of Ombi Dam	100%	Completed
xv.	Construction of Merkyem Earth Dam, Benue State	100%	Completed
xvi.	Reconstruction of Irrigation Dam at Wang, Bokkos LGA, Plateau State.	95%	Ongoing
xvii.	Design and Construction of Mini Earth Dam in selected locations in Plateau State	100%	Completed
xviii.	Rehabilitation of Doma Irrigation Infrastructure	61%	Ongoing
xix.	Maintenance of Doma Dam Slope	100%	Completed
xx.	Fishery and Poultry Development at Doma Dam	100%	Completed
xxi.	Land Clearing at Longkat Project (200ha)	100%	Completed
xxii.	Construction of Headworks and Canals to cover 100 Ha at Tede Irrigation Project	98.80%	Ongoing
xxiii.	Development of 100ha Surface Irrigation Scheme at Jato- Aka Project	81%	Ongoing
xxiv.	Establishment of Rice Processing Plant at Makurdi Project	66%	Ongoing
xxv.	Establishment of 4units of Green Houses at Oforachi Project	75%	Ongoing
xxvi.	Land Clearing of 50ha of Irrigable Farmland at Obagaji Project in Agatu LGA, Benue State	50%	Ongoing
xxvii.	Construction of Multi Dykes at Breakages Points along the River Bank of Dep River	40%	Ongoing
xxviii.	Land Clearing at Jato-Aka Project	60%	Ongoing
xxix.	Land Clearing at Lessel, Oguma and Longkat Project Areas	100%	Completed
xxx.	Makurdi Irrigation Project	75%	Ongoing
xxxi.	Bokkos Irrigation Project	80%	Ongoing
xxxii.	Obagaji Irrigation Project	70%	Ongoing
xxxiii.	Graduate Youth Empowerment Program	100%	Completed
xxiv.	Completion of Earth Dam at Mabudi Plateau State	77.02%	Ongoing
xxxv.	Construction of Mashida - Bashar Dam	70%	Ongoing
xxvi.	Completion and Construction of Mini Earth Dams at Howe Lijani And Atweserga in Gwer East/ Gwer	67.69%	Ongoing

	West LGA, Benue State		
xxvii.	Completion of Chagu Earth Dam		Ongoing
xxviii.	Construction of Dam In Gwaranga Bauchi State	65.75%	Ongoing

4.1.6.14 Water Supply/Erosion Control

S/N.	PROJECT TITLE	% LEVEL OF COMPLETION	REMARKS (ONGOING/COMPLETED)
i.	Water Supply Schemes in Otukpo/Ohimini Federal Constituency	100%	Completed
ii.	Water Supply Schemes in Lafia/Obi Federal Constituency	100%	Completed
iii.	Water Supply Schemes in Awe/Doma/Keana Federal Constituency	100%	Completed
iv.	Rehabilitation of Korinya Water Works	68%	Ongoing
v.	Expansion of Imane Spring Water Development Project, Olamabora LGA, Kogi State	21%	Ongoing
vi.	Erosion Control in selected locations in Plateau State	93%	Ongoing
vii.	Establishment of Sachet/Bottle Water production in Makurdi	21%	Ongoing
viii.	Rehabilitation of Access Road and Erosion control at Guma Dam Project	62%	Ongoing
ix.	Rehabilitation of 3 km Road to all 18 projects	33.77%	Ongoing
x.	Construction of small Water Scheme at Makurdi Giza, Nasarawa State	61.59%	Ongoing
xi.	Partnership for Expanded Water Supply Hygiene	100%	Completed
xii.	Construction of Flood Protection Dyke for Makurdi Project	34%	Ongoing
xiii.	Study and Design with construction of access road to farmlands at Kurape District, Nasarawa State.	100%	Completed
xiv.	Construction of new Drainages in Marraraba-Donga Town in Taraba South Senatorial District	95%	Ongoing
xv.	Construction of Otukpo Township Roads, Culverts and R.C. Drains	75%	Ongoing

4.1.6.15 Other Projects executed by the Authority in 2020.

S/N	PROJECT TITLE	PERCENTAGE LEVEL OF COMPLETION	REMARKS
i.	Provision of alternative power source (solar/inverter) for headquarters operations	26.10%	Ongoing
ii.	Procurement of borehole drilling machines in selected location in North East and North Central Geopolitical Zones	100%	Completed
iii.	Procurement of the Geographic Information System (GIS) Laboratory Equipment	100%	Completed
iv.	Irbm (Hydro-Meteorological Infrastructure)	100%	Completed

v.	Rehabilitation of Lower Benue Primary School at Makurdi Headquarters	75%	Ongoing
vi.	Completion of the Upgrading of ICT unit equipment and internet facilities	100%	Completed
vii.	Completion of the Upgrading of the Authority's accounting hardwares/softwares system	100%	Completed
viii.	Equiping/law book/furnishing of Legal Department	100%	Completed
ix.	Human Capital Development (training)	100%	Completed
x.	Establishment of Rice Processing Plant at Makurdi Project	66%	Ongoing
xi.	Development of GIS/LIS (land information system) for all project sites in the catchment area	100%	Completed
xii.	Completion of equiping of soil science laboratory	50%	Ongoing
xiii.	Procurement of assorted fertilizers, agro-chemicals and improved seeds	80%	Ongoing
xiv.	Piggery development at Jato- Aka project	40%	Ongoing
xv.	Fishery and Poultry Development at Okete Project	79%	Ongoing
xvi.	Fishery and Poultry Development at Oguma Project	36%	Ongoing
xvii.	Purchase of heavy duty plant and equipment	70%	Ongoing
xviii.	Supply of farming implements to farmers in different locations in Plateau State	100%	Completed
xix.	Provision of fertilzer for farmers in Nasarawa North Senatorial District	100%	Completed
xx.	Empowerment Programme in selected locations in Plateau State	100%	Completed
xxi.	Training and supply of agricultural inputs for farmers in Karu Keffi Kokona Federal Cosntituency, Nassarawa State	100%	Completed

4.1.6.16 Constituency Projects Executed in 2020

The Authority executed a number of projects in 2020. This ranges from drilling and rehabilitation of hand pump and motorized boreholes, construction and asphaltting of township roads, construction of dam and erosion control works, construction of classroom with VIP Toilets, Health Centres as well as provision of different empowerment programme.

The constituency projects embarked upon by the Authority which were water related were as follows:-

S/N	PROJECT TITLE	PERCENTAGE LEVEL OF COMPLETION	REMARKS (ONGOING/ COMPLETED)
i.	Solar Powered Boreholes FCT Senatorial District	100%	completed
ii.	Rehabilitations of Boreholes FCT Senatorial District	100%	completed
iii.	Construction of Motorised Borehole with Generator in Otunba Adebayo Adeoba Street, Near Ogoga Palace in Ikere Ekiti, Ekiti State	100%	completed
iv.	Completion of Iyara - Ijumu Earth Dam in Iyara Ijumu LGA, Kogi State	65%	on-going
v.	Water Reticulation in Iyara Ijumu LGA, Kogi State	45%	on-going
vi.	Completion of Construction of various Solar Motorized Boreholes in Yaudra and selected locations	100%	completed
vii.	Construction of Solar Motorised Boreholes in various locations in Mikang, Shendam, Quaanpan Federal Constituency of Plateau State	100%	completed
viii.	Provision of Solar Motorised Boreholes in selected locations in Pankshin/Kanke/Kanam Federal Constituency of Plateau State	90%	ongoing
ix.	Construction Of Hand Pump Borehole In Various Locations In Mikang, Shendam, Quaanpan Federal Constituency of Plateau State	100%	completed
x.	Provision of Motorized Boreholes at Karu/Keffi/Kokona, Nasarawa State	100%	completed
xi.	Construction Solar Borehole in one of the location in Nasarawa/Toto, Federal Constituency	100%	completed
xii.	Construction of 10 Nos. Hand Pump Boreholes in Karu, Keffi, Kokona, Federal Constituency, Nasarawa State.	90%	ongoing
xiii.	Provision of Handpump Boreholes to some communities in Pankshin/Kanam /Kanke LGA, Plateau State.	85%	ongoing
xiv.	Completion of Fajul Dam in Langtang North/South Federal Constituency, Plateau State.	88.63%	ongoing
xv.	Completion of Jiodadi Dam in Langtang North/South Federal Constituency, Plateau State.	77.8%	ongoing
xvi.	Construction of Hand Pumps Boreholes in Jemaa/Sanga LGA, Kaduna State	100%	completed

4.1.6.17 **Boreholes Constructed in 2020 (Name/Location, level of completion):**

S/NO	NAME	LOCATION	% LEVEL OF COMPLETION
1	Construction of Motorised Borehole at Abughul Mbamar Tswarev Community, Nyiev Guma LGA, Benue State	Guma LGA, Benue State	100%
2	2 No. Motorised Borehole At Doma, Awe and Keana LGAs	Doma, Awe and Keanalgas, Nasarawa State	100%
3	Motorised Borehole at Idadu	Idadu, Nasarawa State	100%
4	Provision of 2no. Solar Powered Borehole at Kurape Community, Nasarawa State	Karu LGA, Nasarawa State	100%
5	3no. Solar Powered Boreholes at Kwade, Durka and Pankshin Catholic Churches	Pankshin LGA, Plateau State	100%
6	Provision of Solar Powered Borehole at Dudu Asita Ikyonuv Community Nyiev, Guma	Guma LGA, Benue State	100%
7	Provision of Solar Powered Borehole at Agwudoko Community, Anyigba In Dekina LGA, Kogi State	Dekina LGA, Kogi State	100%
8	Provision of 2no. Motorised Borehole at Ubele and Imane in Ankpa and Numabiro LGAs	Imane, Kogi State	100%
9	Completion of Solar Powered Borehole in the Palace of Onomo of Owukpa	Owukpa, Benue State	100%
10	Provision of Handpump Borehole at Eke Ajide Edumoga	Eke Ajide, Benue State	100%
11	Construction of Motorized Solar Boreholes in Selected Lacations in Plateau State	Selected Locations, Plateau State	100%
12	Construction of Solar Motorised Boreholes at Shendam and ors selected locations in Plateau State	Shendam LGA, Plateau State	100%
13	Water Supply Schemes in Otukpo/Ohimini Federal Constituency	Otukpo/Ohimini, Benue State	100%
14	Water Supply Schemes in Lafia/Obi Federal Constituency	Lafia/Obi Lgas Nasarawa State	100%
15	Water Supply Schemes in Awe/Doma/Keana Federal Constituency	Doma, Awe and Keanalgas, Nasarawa State	100%
16	Construction of Solar Powered Borehole with Overhead Tank at Stepen Machi Compound Ningeve, Vandeikya LGA	Vandeikya LGA, Benue State	100%
17	Construction of Motorised Borehole with 4No. plastic tankat James Suswam's Anyiin Logo LGA	Logo LGA, Benue State	100%

18	Construction of Solar Powered Boreholes in Quaantan, Shendam, Langtang North, Langtang South, Millang and Wase LGAs, Plateau South Senatorial District, Plateau State	Plateau South Senatorial District, Plateau State	100%
19	Construction of Solar Powered Boreholes 20Nos in Benue North West Senatorial District, Benue State.	Benue North West Senatorial District, Benue State	100%
20	Construction of 8 Nos Of Solar Powered Boreholes at Tswarev, Tse-Amatsu Logo LGA, Mbatyula, Tse-Akaangee in K/Ala Lga and Tse-Ugboho, Borikyo Ukum LGA.	K/Ala, Ukum and Logo LGAs, Benue State	100%
21	Construction and Installation of Motorised Boreholes with solar panel across some selected wards of Bayo and Kwaya, Kusar LGA (120m) in Borno State and Niger East Senatorial District (200m) Niger State	Niger East Senatorial District, Niger State	100%
22	Provision of Solar Powered Boreholes in Keffi and its environs	Keffi LGA, Nasarawa State	100%
23	Provision of 2nos. Motorised Borehole and Solar Streetlight in Ayah Igalamela/Odolu LGAs, Kogi State.	Igalamela and Odolulgaskogi State	100%
24	Construction and Installation of Solar Powered Boreholes Project in Tor Tiv Palace, Gboko, Benue State	Gboko LGA Benue State	100%
25	Solar Powered Borehole in Government Science Secondary School Wase LGA and Inwunzi Village in Namu, Quaanpan LGA, Plateau State	Nasarawa Eggon LGA, Nasarawa State	100%
26	Solar Powered Boreholes FCT Senatorial District	FCT, Abuja	100%
27	Rehabilitations of Boreholes FCT Senatorial District	FCT, Abuja	100%
28	Construction of Motorised Borehole with Generator in Otunba Adebayo Adeoba Street, near Ogoga Palace in Ikere Ekiti, Ekiti State	Ikere Ekiti, Ekiti State.	100%
29	Completion of Construction of various Solar Motorized Boreholes in Yaudra and Selected Locations in North Central	North Central	100%
30	Construction of Solar Motorised Boreholes in various locations in Mikang, Shendam, Quaanpan Federal Constituency	Mikang, Shendam and Quaanpanlgas, Plateau State	100%
31	Construction of Hand Pump Borehole in various locations in Mikang, Shendam, Quaanpan Federal Constituency	Mikang, Shendam and Quaanpanlgas, Plateau State	100%
32	Provision of Motorized Boreholes at Karu/Keffi/Kokona, Nasarawa State	Karu, Keffi and Kokonalgas, Nasarawa State	100%

33	Provision of Motorized Borehole at Ugboju, Agatu LGA, Of Benue State.	Agatu LGA, Benue State	100%
34	Construction of Solar Borehole in one of location in Nasarawa/Toto, Federal Constituency	Nasarawa And Toto LGAs, Nasarawa State	100%
35	Construction of Hand Pumps Boreholes in Jemaa/Sanga LGA, Kaduna State	Je'maa And Sanga LGAs, Kaduna State	100%

4.1.6.18 **Summary of Internally Generated Revenue (IGR) and Remittances into Consolidated Revenue Fund from January 2020 to December 2020**

During the period under review, the Authority generated a sum of Eight Million, Seven Hundred and Fourteen Thousand, Eight Hundred and Sixty-One Naira, Twenty-Five Kobo (₦8,714,861.25)

Details was as follows:

S/N	SOURCES	2020 ACTUAL (₦)
i.	Land Allocation	1,693,400.00
ii.	Tender Fee	4,927,961.25
iii.	Sales of Farm Produce	429,500.00
iv.	House Rent	1,664,000.00

4.1.6.19 **Challenges/Constraints:**

- Gap between budgetary proposals and actual releases/funding
- Lack of Man power training and development/ Employment
- Obsolete and unserviceable equipment and machineries; workshop and heavy duty machineries
- Lack of Rehabilitation of Offices and residential buildings
- Non-upgrading and equipping Laboratory
- Non-functional state of irrigation infrastructure at the project sites.

4.1.6.20 **Way forward:**

- i. Seek improved funding on Budgetary Allocation
- ii. Manpower training and staff development programmes/ Recruitment of skilled staff
- iii. Upgrade and commercialize the equipment and plant line services

- iv. Rehabilitation of offices and estates
- v. Upgrade and equip Laboratory and Data collection centre
- vi. Commercialize the farming projects through Public Private Partnership (PPP) and collaborative Investment for improved Agricultural output.



Motorised Borehole at Agwudoko Community, Anyigba in Dekina LGA, Kogi State



Motorised Solar Powered Borehole at Stepen Machi Compound Ningeve, Vandeikya LGA, Benue State

4.1.7 **LOWER NIGER RIVER BASIN DEVELOPMENT AUTHORITY (LNRBDA)**

4.1.7.1 **Introduction**

Lower Niger River Basin Development Authority (LNRBDA) is one of the twelve (12) River Basin Development Authorities established to undertake, among other functions: “the development of both surface and underground water resources potentials of the nation for multipurpose uses but with particular emphasis on the development of irrigated agriculture.”

The areas of operation of the Lower Niger River Basin Development Authority include the geopolitical boundaries of Kwara State and part of Kogi State west of the Niger.

4.1.7.2 **Vision**

To ensure effective and efficient implementation of the nation’s water resources development policies, through optimal exploitation, conservation, and overall development of the nation’s abundant surfaces and underground water resources potentials; with a view to improving the quality of life of every Nigerian particularly those within the Lower Basin of the River Niger.

4.1.7.3 **Mission**

To serve as a viable and veritable implementing agency of Government in the effective utilization of all the water resources potentials within the Lower Basin of the River Niger, with a view to improving the quality of lives of the people in the areas through development of irrigation agronomy, bulk and potable water supply and other watershed management projects.

4.1.7.4 **Staff Strength:**

The Authority had a total staff strength of four hundred and two (402) as at 31st December, 2020. This comprised three hundred and ninety-two (392) senior and ten (10) junior staff. In term of gender, the Authority had two hundred and sixty-five (265) males and one hundred and thirty-seven (137) females.

4.1.7.5 **Advancement and Conversion**

The Authority advanced a member of staff and converted sixteen (16) others comprising fifteen (15) senior and one (1) junior staff during the year under consideration.

4.1.7.6 **Retirement**

Eight (8) members of staff comprising four (4) senior and four (4) junior staff retired from service in 2020.

4.1.7.7 **Training**

During the year under focus, forty-five (45) members of staff benefitted from training, conferences and seminars.

4.1.7.8 **Board Matters**

The Authority held five (5) meetings during the year under review. Achievements recorded by the Board include:-

- i. Approval of 2019 Senior Staff promotion exercise;
- ii. Consideration of Board of Survey on obsolete items
- iii. Ratification of disciplinary actions recommended against some officers

4.1.7.9 **Projects Executed by the Authority in 2020**

4.1.7.9.1 **Channelization, Road Rehabilitation and Erosion Control Works**

During the year under review, the Authority carried out a number of channelization, road rehabilitation, flood and erosion control projects in Kwara and Kogi State. The projects which were all completed were as follows:-

- i. construction of Flood and Erosion Control Structure along Enji River, Offa LGA, Kwara State;
- ii. improvement of Road Network within the Authority's Headquarters, Ilorin, Kwara State;
- iii. channelization and Road Rehabilitation at Inioziomi Layout, Adavi LGA, Kogi State;
- iv. channelization and Flood Control Work at Koro Ile Ale Ileku, off Popo Giwa Ilorin-West LGA, Kwara State;
- v. construction and Channelization within Iyaniwura Area of Igbona Road, Kwara State;
- vi. construction and Channelization within Oke-Andi Area, Ilorin East LGA, Kwara State;
- vii. construction of Flood and Channelization behind Corper's Lodge Upper New Layout, Lokoja, Kogi State;

- viii. channelization and Flood Control Work of Abimbola Street, Tanke Ilorin, Ilorin South LGA, Kwara State;
- ix. channelization and Flood Control Work at IsaleArowasi Off ItaKudima Street, Ilorin, Ilorin West LGA, Kwara State;
- x. channelization and Road Rehabilitation Asa Dam Estate behind NNPC Mega Station Ilorin, Kwara State;
- xi. flood and Erosion Control along OwaKojola Street, GaaAkanbi, Ilorin, Kwara State;
- xii. channelization at Otutu Area, AdaviEba Township, Adavi LGA, Kogi State;
- xiii. channelization and Flood Control at Ajibesin-Oniru Air Force, Oloje Housing Estate Ilorin, Kwara State;
- xiv. flood and Erosion Control Work at Nasarawa Eggon, Nasarawa State;
- xv. water Channelization and Erosion Control Works at Erin-Ile Town Hall Road, Erin-Ile Oyun LGA, Kwara State;
- xvi. flood and erosion control and asphalt overlay of itaelepo-osin-laduba Road in Ilorin West/Ada LGA;
- xvii. erosion control of 2KM Town-Ship Road at Offa Complete with Double Sided Drains;
- xviii. erosion Control and Surface Dressing of Farm Access on Ikotun Road in OjokuOyun LGA, Kwara State;
- xix. flood Erosion within Agric Estate at Ilorin;
- xx. construction of Small Bridges and Box Culverts for Rural Roads in selected Communities in Kwara North Senatorial District, Kwara State;
- xxi. construction and Rehabilitation of Access Roads to Moshe Gada Irrigation Project and Authority's Garden, Kwara State;
- xxii. rehabilitation of Osin Coca Junction Road, Ilorin West LGA, Kwara State;
- xxiii. desilting and Channelization of River Booze in Edu/Moro/Patigi Federal Constituency, Kwara State; and

- xxiv. channelization, Flood and Erosion Control Work at Upper Stream Akerelile, Kwara State.

4.1.7.10 **Water Supply and Sanitation Projects**

4.1.7.9.10.1 **Construction and Installation of Mini Compact Water Treatment Plants in Kwara and Kogi State.**

Achievements made on the project in 2020 include:

- a. construction and Installation of Mini Compact Water Treatment Plants at Ejiba Area Office;
- b. provision and Installation of Mini Compact Water Treatment Plant in Ilorin West LGA, Kwara State; and
- c. provision of Water Purification and Disinfection Technologies in various plant in LNRBDA Kwara and Kogi State;

4.1.7.9.10.2 **Construction of Two Mini Water Treatment Plants and Reticulation at Muhammad Kamalu-Deen University, Ilorin, Kwara State**

The Authority in 2020 constructed water treatment plant and reticulation facilities to ensure uninterrupted potable water supply to the University Community.

4.1.7.9.10.3 **Molete Township Water Reticulation**

The progress made by the Authority on the project in 2020 was mainly completion of water reticulation system as well as the provision of additional storage tank at Kwara State University, Molete.

4.1.7.9.10.4 **Rehabilitation of Ejule Water Supply Scheme on Ofu LGA and Construction of Solar Powered Borehole in Idah, Ibaji-Igalamela/Odolu and Ofu in Idah Federal Constituency, Kogi State.**

Achievements made on the project during the period under focus was basically construction of the Solar Powered Borehole.

4.1.7.9.10.5 **Other Water Supply and Sanitation Projects Executed in 2020**

Other Water Supply Projects successfully executed by the Authority during the period under focus include:

- i. rehabilitation and Expansion of Mopa Water Works in Kogi West Senatorial District, Kogi State;
- ii. construction of EkinrinAdole Water Supply Scheme;
- iii. construction of 3Kilometers Reticulation in each of the 16 LGAs of Kwara State;
- iv. rehabilitation of Ikotun Water Works;
- v. construction of Water Works Scheme in Kwara State;
- vi. construction of Odo-Eku Water Works, Kwara State;
- vii. construction of Mini Water Works in Edu/Moro/Patigi Federal Constituency, Kwara State;
- viii. improvement and Water Reticulation in GRA Offa Town, Kwara State;
- ix. construction of Toilet (P-WASH) and Hand Washing facilities in schools and Health Centres in Kwara Central District;
- x. provision of PEWASH Model in Kwara State and PEWASH Programme for Kogi State;
- xi. water supply schemes in Adavi/Okehi Federal Constituency; and
- xii. upgrade and development of Owu Fall, OwaKajola, Ifelodun and
- xiii. construction of Access Road and upscaling of Eromola Water Fall in Idofin, OkeEro LGA, Kwara South Senatorial District, Kwara State;

4.1.7.9.11 **Dam and Irrigation Projects**

During the year under review, the Authority carried out the following activities in its Dam and Irrigation Projects:

- i. rehabilitation of Main Cannal and Development of Aquaculture in Kampe Omi Dam in Kogi State;
- ii. rehabilitation of the Authority's Area Office at Ejiba, Kogi State;
- iii. construction works and provision of infrastructure at Girinyan Irrigation Project;
- iv. construction of Dam and Irrigation Infrastructure in Moshe Gada Irrigation Project in Kwara State;

- v. construction of Takete-Idole Irrigation Project in Kogi State;
- vi. development of Phase II, Orin Irrigation Project;
- vii. operation and maintenance of Irrigation Projects under Ejiba Area Office in Kogi State;
- viii. operation and maintenance of Irrigation Projects under Shonga Area Office;
- ix. operation and maintenance of Irrigation Projects under Ilorin Area Office in Kwara State;
- x. Operation and maintenance of Irrigation Projects under Omu-aran Area Office in Kwara State;
- xi. provision of irrigation scheme at Jamata Lokoja of Kogi State;
- xii. engineering procurement and construction of modern irrigation technology for small holder-farmers in Edu/Moro/Patigi LGA of Kwara State;
- xiii. rehabilitation of Ore/Ballah Dam Asa LGA, Kwara State;
- xiv. provision of Irrigation component of Omu-Aran Irrigation Project;
- xv. development of Oke-erri Irrigation Project in Kwara State;
- xvi. development of Ponyan Irrigation Project in Kogi State;
- xvii. development of Erin-Ile/Ajase-Ipo/Ilala Irrigation Project in Kwara State;
- xviii. maintenance of Dams and Irrigation Infrastructure in Kwara and Kogi State;
- xix. construction of Dam and Irrigation Infrastructure in IyahGbede Irrigation Project, IyahGbede, Ijumu, Kogi State;
- xx. construction of Dam and Irrigation Infrastructure in Kpada Irrigation Project, Edu LGA, Kwara State; and
- xxi. construction of Odo-Ape Dam in Kogi State;

4.1.7.9.12 **Other Projects/Programmes Executed in 2020**

The Authority also embarked on construction and provision of recreational facilities, rehabilitation of Office and residential buildings/colony, supply of office furniture and Fittings, rehabilitation

and replacement of machineries, procurement of fertilizers as well as land clearing among others. Details are below:

- i. construction and provision of recreational facilities in the Authority's Headquarters, Ilorin, Kwara State;
- ii. procurement of office furniture and fittings for Headquarters, Area and Project Offices;
- iii. completion of renovation of Authority's secretariat building;
- iv. rehabilitation of Residential Buildings/Colony in the Authority's Headquarters, Ilorin Kwara State;
- v. rehabilitation of the Authority's Central Store and Workshop, Ilorin South LGA, Kwara State;
- vi. rehabilitation of the Authority's Engineering Complex, Ilorin, Ilorin South LGA, Kwara State;
- vii. construction of Authority's Library Complex;
- viii. development of Integrated Agricultural System using the Shongai Model in Kwara and Kogi State;
- ix. purchase of operational/project vehicles;
- x. maintenance and Administration of Security;
- xi. Procurement of new CAT 12K Motor Grader and CAT D7R Bulldozer with Ripper;
- xii. procurement of fertilizer for Jema'a/Sanga Federal Conritutency, Kaduna State;
- xiii. training and empowerment of farmers in agricultural production in Edu/Moro/Patigi Federal Constituency, Kwara State;
- xiv. training and empowerment of Women in Skills Acquisition in Edu/Moro/Patigi Federal Constituency, Kwara State;
- xv. procurement of tractors and implements for farmers in Edu/Moro/Patigi LGA;
- xvi. land clearing at Ilorin Omu-Aran, Shonga, Ejiba and Lokoja Area Officers;
- xvii. computerization of RBDAs/provision of ICT and Internet Facilities; and

xviii. rehabilitation of machineries/equipment of the Authority.

4.1.7.9.13 **Boreholes constructed/rehabilitated by the Authority in 2020**

SN	PROJECT/PROGRAMME		PROJECT/PROGRAMME DESCRIPTION	LOCATION	PERCENTAGE COMPLETION
1	Rehabilitation of existing Boreholes		Rehabilitation of existing Boreholes in Kwara and Kogi States	Kwara and Kogi States	100%
2	Construction of Boreholes at various locations in Kwara and Kogi States	i	Construction of complete package Solar Powered Borehole Water Project with steel tanks on 9m stanchion (sedimentary area) in Kogi Central Senatorial District at Isah Salihu Sago Compound, opposite Cele Street Obehira, Kogi State	Okene LGA, Kogi State	100%
		ii	Construction of Motorised Borehole with plastic tank on 6m stanchion in (sedimentary area), Kogi Central Senatorial District Behind Idris Atta Street, Check Point, Okene Kogi State	Okene LGA, Kogi State	100%
		iii	Construction of 2nos. Motorised Borehole with plastic tanks on 6m stanchion in (sedimentary area), Kogi Central Senatorial District at (a) Ayo Onochepari Ohuda Ozuja Okene, Okene LGA Kogi State. (b) Ageva Layout, Okene, Okene LGA, Kogi State	Okene LGA, Kogi State	100%
		iv	Construction of Motorised Borehole with plastic tanks on 6m stanchion in (sedimentary area), Kogi Central Senatorial District At (a) Prof. Musa Suberu Compound, Okengwen, Okene LGA Kogi State (b) Boboke Frontage, Otoy, Okene LGA, Kogi State	Okene LGA, Kogi State	100%
		v	Construction of Mini Motorized Boreholes (sedimentary area) at Oke Olaja Compound, Ogga, Yagba West LGA, Kogi State	Yagba West LGA, Kogi State	100%
		vi	Construction of Motorised Borehole with plastic tanks on 6m stanchion in (sedimentary area), Kogi Central Senatorial District at Badoko Ward, Adogo, Ajaokuta LGA Kogi State	Ajaokuta LGA, Kogi State	100%
		vii	Construction of Motorised Borehole with plastic tanks on 6m stanchion in (sedimentary area), along Bishop David Abioye Crescent, Andi-Kan Beulah Estate, Kafe District, Abuja	Abuja	100%
		viii	Construction of Motorized Borehole with generator and plastic tanks on 6m stanchion (sedimentary area) at Gaa Olomi Funfun, Offa, Offa LGA	Offa LGA, Kwara State	100%
		ix	Construction of Motorized Borehole with generator and plastic tanks on 6m stanchion (sedimentary area) at Hajiya Iya Compound opposite Union Bank Patigi	Patigi LGA, Kwara State	100%

SN	PROJECT/PROGRAMME		PROJECT/PROGRAMME DESCRIPTION	LOCATION	PERCENTAGE COMPLETION
		x	Construction of Motorized Borehole with generator and plastic tanks on 6m stanchion (sedimentary area) in Kwara North, Kwara State	Edu LGA, Kwara State	100%
		xi	Construction of 1No. Mini Motorized Boreholes (sedimentary complex) Jonathan Olanrewaju Street, Araromi Area, Agbabiaka, Ilorin South LGA, Kwara State	Ilorin South LGA, Kwara State	100%
		xii	Construction of Motorized Borehole (sedimentary complex) at Ile Eletu, Oju-Ekun Street, Ilorin West LGA Kwara State	Ilorin West LGA, Kwara State	100%
		xiii	Construction of Motorized Borehole (sedimentary complex) at Alpha Olomokewu Padeola, Okelele Area, Ilorin West LGA Kwara State	Ilorin West LGA, Kwara State	100%
		xiv	Construction of Motorized Borehole (sedimentary complex) at Agboji Eleyinla Ajikobi Ward, Ilorin, Ilorin West LGA Kwara State	Ilorin West LGA, Kwara State	100%
		xv	Construction of Mini Motorized (sedimentary area) at Nigeria Prisons Service Medium Security Prison Mandala, Ilorin, Asa LGA Kwara State	Asa LGA, Kwara State	100%
		xvi	Construction of Mini Motorized Borehole (sedimentary complex) at School of Preliminary Studies, Fufu, Ilorin South LGA, Kwara State	Ilorin South LGA, Kwara State	100%
		xvii	Construction of Motorised Borehole with plastic tanks on 6m stanchion at New Sango Lokoja Road, Ajaokuta LGA Kogi State	Ajaokuta LGA, Kogi State	100%
		xviii	Construction of Motorised Borehole with plastic tanks on 6m stanchion in (sedimentary area), Kogi Central Senatorial District	Okene LGA, Kogi State	100%
		xix	Construction of Complete Package Solar Powered Borehole Water Project with steel tanks on 9m stanchion (sedimentary area) at Opposite Adavi Secretariat Oziokutu, Obangede Road, Adavi LGA, Kogi State	Adavi LGA, Kogi State	100%
		xx	Construction of 2nos Motorized Borehole (sedimentary area) at (1) Justice Moses Bello Street, Inoziomi, Adavi LGA, Kogi State (2) Old Ohindase Market Street, behind Abulo House, Abuga, Okengwe, Kogi State	Adavi LGA, Kogi State	100%
		xxi	Construction of Electrically Driven Motorized Borehole (sedimentary area) at (1) Omi Community, Yagba West LGA, Kogi State (2) Iiuke Community, Kabba/Bunnu LGA, Kogi State	Kabba/Bunnu LGA, Kogi State	100%
		xxii	Construction of Mini Motorized Borehole (sedimentary area) at Koro School, Patigi, Patigi LGA, Kwara State	Patigi LGA, Kwara State	100%

SN	PROJECT/PROGRAMME		PROJECT/PROGRAMME DESCRIPTION	LOCATION	PERCENTAGE COMPLETION
		Xxiii	Construction of Motorized Boreholes with plastic tanks on 6m stanchion (sedimentary area) at Alfanla Compound, Okekere Area, Ilorin Ilorin West LGA Kwara State	Ilorin West LGA, Kwara State	100%
		xxiv	Construction of 2 Nos. Motorized Borehole (sedimentary area) at (1) Alamu Street, opposite Royal Valley Estate, Gbaga Area, Sango, Ilorin South. (2) Gbaga Primary School, Kulende Area, Sango, Ilorin South.	Ilorin East LGA, Kwara State	100%
		Xxv	Construction of Hand Pump Boreholes (sedimentary area) at Bokungi Zambufu, Edu LGA, Kwara State	Edu LGA, Kwara State	100%
		xxvi	Construction of Hand Pump Boreholes (sedimentary area) in Kwara North, Kwara State.	Edu LGA, Kwara State	100%
		Xxvii	Construction of 3 Nos Motorised Borehole with generator and plastic tanks on 6m stanchion (sedimentary area), at (1) Mofara Ahoro, Jebba Ward, Moro LGA; (2) Odetan, Okutala Ward, Moro LGA; (3) Fanto, Eji Ward, Moro LGA	Moro LGA, Kwara State	100%
		xxviii	Construction of Boreholes at various locations in Kwara and Kogi States	Kwara & Kogi States	100%
3	Construction of 1 No. Motorised Borehole at Osin Okete, Kwara State		Construction of 1 No Motorised Borehole at Osin Okete, Ilorin West LGA, Kwara State	Ilorin West, Kwara State	100%
4	Construction of 1 No Motorised Borehole by Wisdom House behind Alikila School, beside Alikila House and beside Eduforte Heritage Nursery and Primary School, Oke-Kudu Airport Area, Ilorin		Construction of 1 No Motorised Borehole by Wisdom House behind Alikila School, beside Alikila House and beside Eduforte Heritage Nursery and Primary School, Oke-Kudu Airport Area, Ilorin	Ilorin West, Kwara State	100%
5	Construction of 2 No Solar Powered Borehole in Ponyan, Kogi State		Construction of 2 Nos. Solar Powered Boreholes in Ponyan, Kogi State	Yagba East Lga, Kogi State	100%
6	Provision of Handpump Boreholes in various locations across Irepodun/Olorunda/Orolu/Osogbo Federal Constituency, Osun State		Provision of Handpump Boreholes in various locations across Irepodun/Olorunda/Orolu/Osogbo Federal Constituency, Osun State	Irepodun/Olorunda/Orolu/Osogbo Federal Constituency	100%

SN	PROJECT/PROGRAMME		PROJECT/PROGRAMME DESCRIPTION	LOCATION	PERCENTAGE COMPLETION
7	Rehabilitation of Existing Boreholes in various locations across Irepodun/Olorunda/Orolu/Osogbo Federal Constituency, Osun State		Rehabilitation of Existing Boreholes in various location across Irepodun/Olorunde/Orolu/Osogbo Federal Constituency	Irepodun/Olorunda/Orolu/Osogbo Federal Constituency	100%
8	Provision of Solar Powered Borehole with plastic tanks at Isale Eju Compound, Esie in Irepodun LGA, Kwara State		Provision of Solar Powered Borehole with plastic tank at Isale Eju Compound, Esie in Irepodun LGA, Kwara State	Irepodun LGA, Kwara State	100%
9	Construction of Motorised Boreholes in Offa, Erinke, Falokun Owode, Share, Idofian Gamon, Amanyo, Igbodun. Kwara State		Construction of Motorised Boreholes in Offa, Erin Ile Falokun Owode, Shaare, Idofian Gamon, Amoyo, Igbodun, Kwara State	Ifelodun LGA, Kwara State	100%
10	Construction of Motorised Boreholes in Moro LGA Kwara State		Construction of Motorised Boreholes in Moro LGA, Kwara State	Moro LGA, Kwara State	100%
11	Construction of Motorised Boreholes in Obangede, Okehi LGA		Construction of Motorised Boreholes in Obangede, Okehi LGA	Okehi LGA, Kogi State	100%
12	Construction of Motorised Boreholes in Iruvuchebai, Mess Magongo, Ogono-Magongo, Lenon Memorial School, Ageva, Okene LGA		Construction of Motorised Boreholes in Iruvuchebai, Mess Mangongo, Ogori-Mangongo, Lenon Memorial School, Ageva, Okene Lga	Okene LGA, Kogi State	100%
13	Construction of 3 Nos Steel Tank Motorised Borehole in the following locations in Kogi Central Senatorial District: (1) GRA Agassa, Opposite Sheikh Lukman's Compound, Okene LGA, Kogi State. (2) Anyoke, along Alasa Compound in Adavi LGA, Kogi State. (3) Otutu Ward, in front of Late Mallam Hassa Ameer Compound Idogido in Okene LGA.		Construction of 3 Nos Steel Tank Motorised Borehole in the following locations in Kogi Central Senatorial District: (1) GRA Agassa, opposite Sheikh Lukman's Compound, Okene LGA, Kogi State. (2) Anyoke, along Alasa Compound in Adavi LGA, Kogi State. (3) Otutu Ward, in front of Late Mallam Hassa Ameer Compound Idogido in Okene LGA.	Okene LGA, Kogi State	100%

SN	PROJECT/PROGRAMME		PROJECT/PROGRAMME DESCRIPTION	LOCATION	PERCENTAGE COMPLETION
14	Construction of Solar Powered Boreholes in Abaji/ Gwagwalada /Kuje/ Kwali, Area Council		Construction of Solar Powered Boreholes in Abaji/Gwagwalada/Kuje/Kwali Area Council	Abaji/Gwagwalada/Kuje/Kwali Area Council	100%
15	Construction of Solar Powered Boreholes in Ankpa, Omala, Olamoboro Federal Constituency, Kogi State		Construction of Solar Powered Boreholes in Ankpa, Omala, Olamoboro Federal Constituency, Kogi State	Ankpa, Omala, Olamoboro Federal Constituency, Kogi State	100%
16	Provision of Hand Pump Borehole in selected villages and town in Nasarawa North Senatorial District				100%
17	Construction of Borehole at Ifelodun Offa, Oyun Federal Constituency, Kwara State.		Construction of Boreholes at Ifelodun /Offa/Oyun Federal Constituency, Kwara State	Ifelodun /Offa/Oyun Federal Constituency	100%
18	Construction of Motorised Borehole behind ECSS, Akenechi, Nagazi Uvete, Adavi LGA, Kogi State.		Construction of Motorised Boreholes behind ECSS, Akenechi Nagazi Uvete, Adavi LGA, Kogi State	Adavi LGA, Kogi State	100%
19	Provision of Boreholes and Repair of Dysfunctional Boreholes in Kwara Central Senatorial District, Kwara State.		Provision of Boreholes and Repair of Dysfunctional Boreholes in Kwara Central Senatorial District, Kwara State	Ilorin West LGA, Kwara State	100%
20	Drilling and Installation of Hand Boreholes in selected Communities in Kwara North Senatorial District, Kwara State.		Drilling and Installation of Hand Pump Boreholes in selected Communities in Kwara North Senatorial District, Kwara State	Ilorin West LGA, Kwara State	100%
21	Motorised Borehole at Alapa/Onire Odegiwa Ward Asa LGA, Kwara State.		Motorised Borehole at Alapa/Onire Odegiwa Ward, Asa LGA, Kwara State	Asa LGA, Kwara State	100%
22	Motorised Borehole at Afon Asa LGA, Kwara State.		Motorised Borehole at Afon Asa LGA, Kwara State.	Asa LGA, Kwara State	100%

4.1.7.9.14 Detail of Internally Generated Revenue In 2020

The Authority in 2020 generated a total of Fifteen Million, Five Hundred and Forty-Eight Thousand, Five Hundred Naira (₦15,548,500.00) only.

The details were as follows:

S/N	Description	Amount ₦
1	Tender/Registration Fees	1,006,600.00
2	Land Preparation	5,503,000.00
3	Land Use	2,415,000.00
4	Guest House	204,000.00
5	Rent of Government Property	368,400.00
6	Sale of Agricultural Produce	601,500.00
7	Hire of Equipment	4,700,000.00
8	Earnings from other Services	250,000.00
	TOTAL	15,548,500.00

4.1.7.9.15 **Challenges/ Constraints**

- i. Legislative bottleneck such as reduction of funds for the execution of proposed projects by the National Assembly.
- ii. Late releases of overhead and capital funds.
- iii. Inadequate funds for overhead
- iv. Limited staff on jobs/tasks/assignments.
- v. Inadequate, old and obsolete equipment.
- vi. Insecurity; inability to assess some of our schemes/ areas of operations.
- vii. Inadequate infrastructure at some work stations.

4.1.7.9.16 **Way Forward/ Future Direction of the Authority**

- i. Maximally explore the capacity of large dams within the Authority's catchment areas for the supply of potable water and the generation of hydro-electricity.
- ii. Optimally utilize available resources for large scale aquaculture and agricultural activities, thereby generating employment and increasing food production.
- iii. Exploit thoroughly the existing relationship between the Authority and her stakeholders by periodic media presentations and improving the quality of her newsletter.

4.1.8 **NIGER DELTA BASIN DEVELOPMENT AUTHORITY**

4.1.8.1 **Introduction**

Niger Delta Basin Development Authority is one of the twelve (12) River Basin Development Authorities in the country. It has its headquarters in Port Harcourt and Area Offices at Isiokolo in Delta State and Yenogoa in Bayelsa State. The Authority Areas of jurisdiction are Rivers, Bayelsa and eighteen Local Government Areas of Delta State.

4.1.8.2 **Vision**

To harness efficiently and effectively the Nation's Water resources in an integrated and sustainable manner to meet present and future agricultural, industrial and domestic water requirement of the people in the Authority's area of jurisdiction.

4.1.8.3 **Mission**

To pursue the policy and objectives of harnessing developing and conserving available land and water resource in an efficient manner through irrigation, agronomy and animal husbandry, which at the same time ensuring quality and sanitation, using proven technology and well-motivated and friendly workforce and paying attention to the preservation of the ecosystem.

4.1.8.4 **Staff Strength**

The Authority during the period under review had a total of staff strength of five hundred and eleven (511). This comprises four hundred and thirteen (413) senior and ninety-eight (98) junior staff. In term of gender, there were three hundred and one (301) males and two hundred and ten (210) females.

4.1.8.5 **Promotion**

Ninety (90) members of staff comprising forty-six (46) senior and forty-four (44) junior staff were promoted in 2020

4.1.8.6 **Discipline**

Fourteen (14) members of staff comprising ten (10) senior and four (4) junior staff were disciplined during the period under review.

4.1.8.7 **Conversion**

Two (2) members of staff were converted by the Authority from one cadre to another during the period of this report.

4.1.8.8 **Death**

The Authority lost three (3) of its staff in 2020

4.1.8.8 **Training**

The Authority in 2020, was able to develop training programmes for staff of all cadres in collaboration with various departments. In addition, the training Unit of the Authority also supervised students on Industrial Training (IT). However, the major challenge being faced by the Authority was how to get fund for various training programmes of staff.

4.1.8.9 **Projects Executed by the Authority in 2020**

4.1.8.9.1 **Songhai Model Farm/Graduate/Unemployed Youth Farmers Scheme**

The Songhai Model Farm is an Authority's integrated farm consisting of snailery, livestock, poultry, agro forestry, and the market garden. This is being replicated in the three (3) catchment states of Rivers, Bayelsa and Delta respectively. The Songhai Model Farm of Rivers is sited at Kpong Irrigation Project. The development of the entire farm was still on-going. Also, the expansion of the poultry segment of the Kpong Songhai Model Farm built to accommodate 30,000 birds is sited in Khana LGA, Rivers State had reached an advance stage. Meanwhile, broilers and pullets up to 5,000 had been stocked, maintained and production of eggs were being carried out in the farm.

The Songhai Model Farm/Graduate/Unemployed Youth Farmers Scheme in Bayelsa State is equally sited at Otueke in the Ogbia LGA. The Authority acquired the moribund facility for use, plan was on-going for its rehabilitation and stocking work also still on-going, for the Songhai Model Farm for Delta State located at Oregon. The Songhai Model Farm/Graduate/Unemployed Youth Farmers Scheme is also sited in Abalama/Sama, Rivers State.

The overall objective of this project was to engage graduates/unemployed youths in farming.

4.1.8.9.1.1 **Achievements made on the project as at December 2020 include:**

- i. stocking and maintenance of 9,000 birds to the point of laying;
- ii. construction of 30,000 gallons of solar boreholes;
- iii. clearing of Primary Forest for the establishment of Model Songhai Farm;

- iv. establishment of Model Songhai Farm;
- v. procurement of 2Nos Vehicles for the Project; and
- vi. Stocking and Maintenance of Poultry Farm with Broilers and Pullets;

4.1.8.9.2 **Water Quality Control Laboratory**

The construction of Ultra Modern Laboratory had since been completed with the state of the art equipment installed. The laboratory was used for testing quality of water to ensure, it was safe for domestic consumption, industrial and other uses. It is one of the major sources of revenues for the Authority.

Achievements recorded on the project in 2020 include:

- i. carried out routine testing and analysis of the samples collected; and
- ii. procurement and supplied of the reagents to the laboratory.

4.1.8.9.3 **Hydro-Meteorological Activities**

The Authority maintains a network of hydrological and automatic weather gauging stations across Rivers, Bayelsa and Delta State. During the period under focus, the Authority carried out routine data collection on hydrological/meteorological activities as well as the rehabilitating of dilapidated stations within the Authority's Area of jurisdiction

4.1.8.9.4 **Procurement of Tractors, Tools and Implements**

During the year under review, the Authority acquired some new farming implements in order to increase the revenue base of the Authority thereby gradually tending towards self-sufficient and self-reliance with less independent on Federal allocated funds.

4.1.8.9.5 **Development of Small Scale Irrigation Projects in Rivers State**

Achievements made on the project in 2020 include:

- i. provision of livestock feed in Kpong farm, Rivers State;
- ii. establishment of Snail farm in Kpong farm, Rivers State;
- iii. construction and stocking of Fish pond at Kpong, Rivers State;
- iv. construction/Rehabilitation of Fish farm at Neonnwo, Rivers State;
- v. completion of Electrification of Kpong community in Rivers State to National Grid under phase II; and

- vi. establishment of Snail farm at Kpong.

4.1.8.9.6 **Isiokolo Irrigation Project, Delta State**

The project was located in Isiokolo, Delta State. It was aimed at the development of 100 hectares of irrigated farmland for all year round farming.

During the period under focus, the Authority recorded the following achievements on the project:

- i. renovation of farm structure was completed;
- ii. clearing of land and cultivation of plantain/banana at Isiokolo irrigation project site;
- iii. stocking of the piggery pen with 20 nos breeders and 3 Nos boars at Isiokolo project site;
- iv. land preparation and cultivation of cassava/plantain in Ovu irrigation project site;
- v. construction of pilot rice irrigation farm complex at Uwherum Ughelli North Delta State; and
- vi. establishment of Meteorological/Hydrological Station in Delta State.

4.1.8.9.7 **Peremabiri Rice Irrigation Project**

Achievements made on the project in 2020 include:

- i. clearing and cultivation of rice in 20 hectares of land;
- ii. procurement of hydropumps/distilling of canal;
- iii. purchase of farm equipment; and
- iv. fumigation of project site.

4.1.8.9.8 **Area Offices Infrastructure Development**

Achievements made on the project in 2020 include:

- i. rehabilitation of 2Nos. Staff Quarters at Isiokolo Area Office, Delta State; and
- ii. completion of Bayelsa Area Office at Central Business District, Yenogoa, Bayelsa State.

4.1.8.9.9 **Flood and Erosion Control Project**

During the period under review, the Authority embarked on a number of flood and erosion control projects in Rivers, Bayelsa and Delta State. All these projects had been completed. The details of the projects were presented below:-

S/N	PROJECT TITLE	% OF PRESENT STATUS
1	Erosion Control InOgboliwo Community, Edeoha-Ahoada East LGA, Rivers State	100%
2	Construction Of 50,000 Gallon Braithwaite Steel Tank With Solar Powered Water Supply Scheme complete with pipeline Network in Oghara-Eki, Ethiope West LGA in Delta Central Senatorial District, Delta State	100%
3	Construction Of 50,000 Gallon Braithwaite Steel Tank With Solar Powered Water Supply Scheme complete with Pipeline Network in Oghara-Eki, Ethiope West LGA In Delta Central Senatorial District, Delta State	100%
4	Construction Of 50,000 Gallon Braithwaite Steel Tank With Solar Powered Water Supply Scheme complete with Pipeline network in Oghara-Eki, Ethiope West LGA In Delta Central Senatorial District, Delta State (Study And Design)	100%
5	Construction Of 50,000 Gallon Braithwaite Steel Tank with Solar Powered Water Supply Scheme complete with Pipeline network in AdejeOkpe, Ethiope West LGA In Delta Central Senatorial District, Delta State	100%
6	Construction Of 50,000 Gallon Braithwaite Steel Tank with Solar Powered Water Supply Scheme complete with Pipeline network in AdejeOkpe, Ethiope West LGA In Delta Central Senatorial District, Delta State	100%
7	Construction Of 50,000 Gallon Braithwaite Steel Tank with solar powered water supply scheme complete with pipeline network in AdejeOkpe, Ethiope West LGA In Delta Central Senatorial District, Delta State (Study And Design)	100%

4.1.8.9.10 Boreholes Constructed in 2020 (Name/Location, Level Of Completion)

S/NO	NAME	LOCATION	LEVEL OF COMPLETION
1	Under Ground Development and Rural Water Supply(Reticulation of Water Project at Ekeremor)	Ekeremor, Bayelsa State	100%
2	Water Supply Project at Aggah, Ogba/Egbema/Ndoni LGA, Rivers State	Aggah, Ogba/Egbema/Ndoni LGA, Rivers State	100%
3	Provision of Motorised Borehole with plastic tank and generator in Bodo City Eleme/Oyigbo/Tai Federal Constituency, Rivers State	Bodo City Eleme/Oyigbo/Tai Federal Constituency, Rivers State	100%
4	Completion of Newlayout Water Project, Buguma	Buguma, Rivers State	100%
5	Completion of Ozoro Water Project, Delta State	Ozoro Water Project, Delta State	32%

6	Completion of Owursa Water Project, Buguma	Owursa Water Project, Buguma	100%
7	Retriculation, Asari Toru	Asari Toru	100%
8	Rehabilitation of Waters Ogurama Old Bakana, Rivers State	Ogurama Old Bakana, Rivers State	100%
9	Completion and Reticulation of Water Project at Ayamabele Community in Bayelsa State	Ayamabele Community in Bayelsa State	100%
10	Rehabilitation of Water Project to Solar at Ogale Town, Rivers State	Ogale Town, Rivers State	100%
11	Rehabilitation of Tombia Water Project	Tombia Water Project	100%
12	Anyama - Ibeni Bayelsa Water Scheme Palm Oil Farm	Anyama - Ibeni Bayelsa	100%
13	Provision of Solar Powered Boreholes in various locations of Degema/Bonny Federal Constituency	Degema/Bonny Federal Constituency	100%
14	Construction of Water Scheme and Reticulation in Ngo Water Scheme, Treatment, Generator, Caterpillar Gorva, Andoni LGA	Andoni LGA, Rivers State	100%
15	Motorised Borehole with generator and plastic tank at (1) Egban-Play Ground, Likpata Village, Edu LGA (2) Sulaiman Ndakpoto Road opposite Etsu Iliyasu Secondary School Tsaragi, Edu LGA (3) Kaka Abdullahi Orisubere Road By Nasfat Oyun Ilorin East, Kwara State	(1) Egban-Play Ground, Likpata Village, Edu LGA (2) Sulaiman Ndakpoto Road Opposite Etsu Iliyasu Secondary School Tsaragi, Edu LGA (3) Kaka Abdullahi Orisubere Road by Nasfat Oyun Ilorin East, Kwara State	95%
16	Provision of Solar Powered Borehole at Ikot Ese Ishiet	Ikot Ese Ishiet	100%
17	Construction of 10,000 Gallon Motorized Borehole at Bumoundi-Ekpetiama in Yenegoa LGA, Bayelsa State	Bumoundi- Ekpetiama in Yenegoa LGA, Bayelsa State	25%
18	Construction of Solar Powered Water Scheme at Effurun, Delta State	Effurun, Delta State	100%

4.1.8.10 Internally Generated Revenue for 2020

During the period under focus, the Authority realized the sum of one million, five hundred and thirty-eight thousand, five hundred naira (N1,538,500.00) as the internally generated revenues.

Detail breakdown was as follows:

S/N	Description	Amount ₦
1	Laboratory Income	1,393,500.00

2	Earning from Hire of Plants and Equipment	65,000.00
3	Tender Income	80,000.00
	TOTAL	1,538,500.00

4.1.8.11 **Specific Challenges/Constraints**

The Niger Delta Basin Development Authority is perhaps the only River Basin Development Authority in the country without any completed large scale Irrigation/Drainage project, no dam and also with no reliable heavy duty equipment. This unfortunate situation is due largely to inadequate financial allocation and funding for these projects over the years. Some of the other problems/constraints include:

- i. Difficult terrain.
- ii. Logistics problems.

4.1.8.12 **Way Forward/Future Direction of the Authority**

- i. Timely release and upward review of budgetary allocation.
- ii. Provision of specialized equipment.
- iii. Inadequate funding and late release of approved budget.
- iv. Saline Intrusion and iron Content in completed boreholes.

4.1.9 **OGUN-OSHUN RIVER BASIN DEVELOPMENT AUTHORITY**

4.1.9.1 **Introduction**

The Ogun-Oshun River Basin Development Authority (O-ORDBA) is a parastatal of the Federal Ministry of Water Resources, charged with the responsibility for the development and management of water resources in its area of coverage.

The Authority has jurisdiction over the area between Nigeria's border with Republic of Benin to the West and Sasa River to the East. The area, which covers the whole of the present day Osun, Oyo, Ogun and Lagos States has an estimated area of 66,264 square kilometres. It is drained by two main rivers – Ogun and Oshun (after which it is named) – and a number of tributaries and smaller rivers, the most important among which are the Sasa, Ona, Ibu, Ofiki, Oni and Yewa.

The Headquarters of the Authority is located on a 236ha Estate along Alabata Road, off Ibadan – Abeokuta highway, Abeokuta in Ogun State and there are three Area Offices located at Osogbo (Osun State), Ibadan (Oyo State) and Ikeja (Lagos State) as well as a Liaison Office in Abuja at Gwarimpa.

4.1.9.2 **Vision**

To be an effective and efficient government establishment irrevocably committed to quality service delivery in water resources management for sustainable development of the communities covered by our operations.

4.1.9.3 **Mission**

To develop and manage surface and ground water resources within our area of coverage, and provide access to safe and adequate water for domestics, industrial, flood control and agricultural purposes to enhance quality of life of the people and promote the socio-economic development of the country.

4.1.9.4 **Staff Strength**

As at December 2020, the Authority had a total staff strength of two Hundred and seventy-five (275) staff. This comprised Two hundred and forty-one (241) staff. This is made up of two hundred and thirty-one (231) senior officers and ten (10) junior staff.

In term of gender, there were one hundred and eighty-nine (189) males and fifty-two (52) females.

4.1.9.5 **Promotion**

During the period under focus, ninety-three (93) members of staff were promoted. This comprise of Seventy-six (76) senior and seventeen (17) junior staff.

4.1.9.6 **Discipline**

The Authority held a Disciplinary Committee meeting during the period of this report and meted disciplinary measures to three (3) members of erring staff.

4.1.9.7 **Conversion**

Six (6) members were converted from one cadre to another following the submission of additional qualifications.

4.1.9.8 **Resignation**

During the period under review, a member of senior staff resigned his appointment from the service.

4.1.9.9 **Pension Matters**

During the period under review, the Authority had a total of three hundred and sixty-six (366) staff under Unified Pension Scheme while a total of one hundred and forty-three (143) were under Contributory Pension Scheme.

The Authority was able during the period coordinated and processed payment of death benefits to the deceased families as well as sensitized and enrolled the Authority's impending retirees under the Contributory Pension Scheme for verification and capturing by PENCOM.

4.1.9.10 **Projects executed by the Authority in 2020**

The Authority in 2020 embarked on a number of projects and achievements recorded on each of them include but not limited to the following:

4.1.9.10.1 **Construction of Flood and Erosion Control**

Construction works continued on flood and erosion control at Omotara Street, Aboyin-Atikori, Ijebu-Igbo, Ijebu North LGA, Construction of concrete drainage and Asphaltting of Fibigbade Road up to OjudeOlooto, Ago-Iwoye, Ijebu North LGA, Ogun State.

4.1.9.10.2 **Construction/Rehabilitation of Farm Access Road**

Construction and rehabilitation of farm access failed road portion of Oko Earth Dam, construction asphaltting of Oke-Agbo-Apoje, Ondo road up to Anoye Market Ijebu-Igbo, Ijebu North LGA and

LAT/Ilesa/Molusi College Gate Ijebu-Igbo, Ijebu North LGA, Ogun State.

4.1.9.10.3 **Supply of Transformers and other Accessories**

The supply and installation of 300KVA transformer 33KVA in various locations in Ikeja Federal Constituency, Lagos State.

4.1.9.10.4 **Skills Acquisition**

The Skills Acquisition on Entrepreneurial Development to empower people of Bariga and Shomolu LGA, Federal Constituency of Lagos State was carried out to alleviate poverty among the youths and women.

4.1.9.10.5 **Borehole constructed in year 2020**

A total of 103 boreholes comprising construction of 24Nos. solar-powered conventional, 59nos 6-Panel Solar Powered, 2 Nos. rehabilitation boreholes and 1 no. reconfiguration of borehole were completed in the year.

Below is a state breakdown of the boreholes distribution for the 2020 appropriation year.

4.1.9.10.6.1 **12 - Panel Solar-Powered Boreholes (Conventional)**

A total of twenty-four (24) boreholes contracts were awarded and were successfully supervised during the year. The details of the spread are as follows:

i.	Lagos State	-	05
ii.	Ogun State	-	07
iii.	Oyo State	-	05
iv.	Osun State	-	07

All the projects have been fully completed.

4.1.9.10.6.2 **6 - Panel SolarPowered Boreholes**

Fifty-Nine (59) contracts were awarded and supervised during the year. In totality, the projects were 100% completed. The spread of the projects are as follows:

i.	Lagos	-	31
ii.	Ogun	-	12
iii.	Oyo	-	15
iv.	Osun	-	01

4.1.9.10.7 **Rehabilitation of Boreholes**

Twenty boreholes were rehabilitated in Ogun and Oyo States under 2020 appropriation.

i.	Ogun	-	03
ii.	Oyo	-	17

Most of the boreholes have been completed while others are still in progress under 2020.

4.1.9.11 **Other Achievements of the Authority in 2020**

The Authority was also able to achieve the following:

- i. Renovation of Rice Processing Mill and Warehouse at Itoikin Irrigation Project by Messrs. South West Farms Limited.
- ii. Supervision of the technical audit of major on-going projects awarded in the 2020 budget.
- iii. The supervision of study and design of Water Supply Scheme at the Federal Medical Centre (FMC) Abeokuta.
- iv. Completed study & design of Cocoa Research Institute of Nigeria (CRIN) Water Supply Expansion at Odo-Ona Nla, Oyo State.
- v. Completed study & design of Omi Dam in Ona Ara LGA, Oyo State.
- vi. Completed study and design of Small Earth Dam at Ilero Farm Project, Oyo State.
- vii. Completed study & design of Ikenne Regional Water Supply Scheme, Ogun State.
- viii. Completed study and design of Irrigation Scheme at Eyinwa, Odogbolu LGA, Ogun State.
- ix. Stocking of 5 fish ponds at OORBDA Headquarters, Abeokuta.
- x. Construction of 10 and Stocking of 5 ponds in Ede, Osun State.
- xi. Perimeter demarcation with economic trees at Iwo Project, Oyo State.
- xii. Perimeter demarcation with economic trees at IganAlade&Ijaka Project, Ogun State.
- xiii. Cultivation of 20ha of Cassava at Headquarters, Oyan Dam and Mokoloki, Ogun State.
- xiv. Completion of the reconstruction of a 5,000 Bird capacity Poultry Pen at Headquarters farm.

- xv. Commencement of works on the Songhai Farm Model with construction of fish ponds, sheep and goat ranch and market.
- xvi. Provision of 42 nos. new poultry cages to boost poultry activities.
- xvii. Development of 4-year strategic plan for the Authority on where to be and what to do in the next 4 years.
- xviii. Conclusion of Procurement process in respect of purchase Laptops, Desktops, UPS etc. and distribution to various Departments and Divisions.
- xix. Data collation in respect of water supply, dams, irrigation and nominal roll for Digest of Statistics for water supply forwarded to the Federal Ministry of Water Resources, Abuja
- xx. Preparation of proposed personnel budget cost for 2020
- xxi. OORBDA Budget Defense for 2020 presented to the House of Representatives
- xxii. Monitoring and Evaluation of projects in Lagos, Osun, Oyo and Ogun States
- xxiii. Review and production of the Authority's Brochure.

4.1.9.12 **Other Projects executed by the Authority in 2020**

S/N	Project Title	Project Description	Location of the project	Year of Commencement	% of Completion	Specific Achievements	Remarks (Ongoing/ Completed)
1	Construction of Flood and Erosion Works at Inukonu Area, Adigbe, Obafemi-Owode LGA, Ogun State	i. Provide channelization of flood. ii. Construction of drainage and culvert.	Obafemi Owode LGA, Ogun State	2020	15%	i. Reinforced concrete lined drain ii. Reinforced Box Culvert iii. Earth works	Ongoing
2	Construction of Drainage structure, Flood and Erosion control works at Obasanjo Hill Top	i. Provide channelization of flood ii. Construction of drainage and culvert	Abeokuta, Ogun State	2020	15%	i. Reinforced concrete lined drain ii. Reinforced Box Culvert iii. Earth works	Ongoing
3	Construction of Floods and Erosion works at Ita-Morin, Oke-Itoku, Abeokuta, Ogun State.	i. Provide channelization of flood ii. Construction of drainage and culvert	Abeokuta, Ogun State	2020	27%	i. Reinforced concrete lined drain ii. Reinforced Box Culvert iii. Earth works	Ongoing
4	Construction of Flood and Erosion control works at Isokan, Oluwa Community, Tara Area, Oke-Bale, Osogbo, Osun State	i. Provide channelization of flood ii. Construction of drainage and culvert	Osogbo, Osun State	2020	60%	i. Reinforced concrete lined drain ii. Reinforced Box Culvert iii. Earth works	Ongoing
5.	Construction of Flood and Erosion control works on Awesin River in	i. Provide channelization of flood ii. Construction of	Orolu LGA, Osun State	2020	60%	i. Reinforced concrete lined drain	Ongoing

	Oke-Ayepe Area including culvert to connect Irepodun LGA with Orolu LGA, Osun State	drainage and culvert				ii. Reinforced Box Culvert iii. Earth works	
6	Construction of Flood and Erosion control works at Elentere River in Ogboro Area of Arenja compound in Ifon/Orolu LGA, Osun State	i. Provide channelization of flood ii. Construction of drainage and culvert	Ifon/Orolu LGA, Osun State	2020	60%	i. Reinforced concrete lined drain ii. Reinforced Box Culvert iii. Earth works	Ongoing
7	Construction of concrete Drainage and Asphalt of Fibigbade road up to OjudeOlooto, Ago Iwoye, Ijebu North LGA, Ogun State	i. Provision of Asphalt ii. Provision of layformworks iii. Construction of drainage and culvert	Ago Iwoye Ijebu North LGA, Ogun State	2020	45%	i. Reinforced concrete lined drain ii. Reinforced Box Culvert iii. Earth works	Ongoing
8	Construction of concrete Drainage and Asphalt of Iga road (from Obafemi Awolowo Expressway Junction, Ago Iwoye, Ijebu North LGA, Ogun State	i. Provision of Asphalt ii. Provision of layformworks iii. Construction of drainage and culvert	Ago Iwoye Ijebu North LGA, Ogun State	2020	45%	i. Reinforced concrete lined drain ii. Reinforced Box Culvert iii. Earth works	Ongoing
9	Construction of concrete Drainage and Asphalt of Isamuro road (including Idi-Kanga night market) to old burial ground, Ago Iwoye, Ijebu North LGA, Ogun State	i. Provision of Asphalt ii. Provision of layformworks iii. Construction of drainage and culvert	Ago Iwoye Ijebu North LGA, Ogun State	2020	95%	i. Reinforced concrete lined drain ii. Reinforced Box Culvert iii. Earth works	Ongoing
10	Construction of Concrete Drainage and Asphalt	i. Provision of Asphalt ii. Provision of	Ago Iwoye Ijebu North	2020	90%	i. Reinforced concrete lined	Ongoing

	of Obada-Igbaire (including Labaka Birdge) Ijebu-Igbo, Ijebu North LGA, Ogun State	layformworks iii. Construction of drainage and culvert	LGA, Ogun State			drain ii. Reinforced Box Culvert iii. Earth works	
11	Construction of Concrete Drainage and Asphaltting of Oke-Agbo-Apoje, Ondo Road (up to Anoye Market) Ijebu-Igbo, Ijebu North LGA, Ogun State	i. Provision of Asphalt ii. Provision of layformworks iii. Construction of drainage and culvert	Ijebu-Igbo, Ijebu North LGA, Ogun State.	2020	60%	i. Reinforced concrete lined drain ii. Reinforced Box Culvert iii. Earth works	Ongoing
12	Construction of concrete Drainage and Asphaltting of L.A.T/Ilesa/Molusi College gate, Ijebu-Igbo (A.AKM) in Ijebu North LGA, Ogun State	i. Provision of Asphalt ii. Provision of layformworks iii. Construction of drainage and culvert	Ago Iwoye Ijebu North LGA, Ogun State	2020	60%	i. Reinforced concrete lined drain ii. Reinforced Box Culvert iii. Earth works	Ongoing
13	Construction of Concrete Drainage and at Wale Osisanya street, Ago Iwoye, Ijebu North LGA, Ogun State	i. Provision of Asphalt ii. Provision of layformworks iii. Construction of drainage and culvert	Ago Iwoye Ijebu North LGA, Ogun State	2020	56%	i. Reinforced concrete lined drain ii. Reinforced Box Culvert iii. Earth works	Ongoing
14	Construction of Flood and Erosion control at Omotara Street, AboyinAtikori, Ijebu North LGA, Ogun State	i. Provision of Asphalt ii. Provision of layformworks iii. Construction of drainage and culvert	Ijebu-Igbo, Ijebu North LGA, Ogun State.	2020	95%	i. Reinforced concrete lined drain ii. Reinforced Box Culvert iii. Earth works	Ongoing
15	Reconstruction of failed portion of Oko Earth Dam embankment at Oko, Surulere LGA, Oyo State	i. Construction of Embankment Portion. ii. Resurface of fail portion of Oko Earth Dam	Oko, Surulere LGA, Oyo State	2020	35%	i. Reinforced concrete lined drain ii. Reinforced Box Culvert iii. Earth works	Ongoing

16	Construction of Flood and Erosion control works at Isheri North, Lagos State.	<ul style="list-style-type: none"> i. Provide channelization of flood ii. Construction of drainage and culvert 	Isheri North, Lagos State	2020	29%	<ul style="list-style-type: none"> i. Reinforced concrete lined drain ii. Reinforced Box Culvert iii. Earth works 	Ongoing
17	Construction of Flood and Erosion control works at Olowo-Ira, Lagos State.	<ul style="list-style-type: none"> i. Provide channelization of flood ii. Construction of drainage and culvert 	Olowo-Ira, Lagos	2020	39%	<ul style="list-style-type: none"> i. Reinforced concrete lined drain ii. Reinforced Box Culvert iii. Earth works 	Ongoing
18	Study and Design of Ilodo Earth Dam, Ogun State	<ul style="list-style-type: none"> i. Estimation of water requirement ii. Identification of best dam site iii. Hydrological and geological studies iv. Foundation investigations and materials investigations v. Production of dam, spillway, the discharge channel designs and BEME 	Ilodo, Ogun State	2020	15%	Inception Reports Submitted	Ongoing
19	Study and Design of Iba Irrigation Scheme, Osun State	<ul style="list-style-type: none"> i. Provision of perimeter and topographical survey ii. Determination of most suitable type of Irrigation system iii. Establishment of crop water requirement 	Iba, Osun State	2020	40%	Inception Report Submitted	Ongoing

		<ul style="list-style-type: none"> iv. To determine the capacity of pumps required v. To design pump house and intake structure, etc. 					
20	Study and Design of Irrigation Scheme at Ilodo, Ogun State	<ul style="list-style-type: none"> i. Provision of perimeter and topographical survey ii. Determination of most suitable type of Irrigation system iii. Establishment of crop water requirement iv. to determine the capacity of pumps required v. To design pump house and intake structure, etc. 	Ilodo, Ogun State	2020	15%	Inception Report Submitted	Ongoing
21	Study and Design of Irrigation Scheme at Igbonla, Epe LGA, Lagos State	<ul style="list-style-type: none"> i. Provision of perimeter and topographical survey ii. Determination of most suitable type of Irrigation system iii. Establishment of crop water requirement iv. to determine the capacity of pumps required v. To design pump house and intake structure, etc. 	Igbonla, Epe LGA, Lagos State	2020	15%	Inception Report Submitted	Ongoing

22	Study and Design of Water Supply Scheme at Iragbiji, Osun State	<ul style="list-style-type: none"> i. Estimation of water requirement ii. Identification of best dam site iii. Hydrological and geological studies iv. Foundation investigations and materials investigations v. Production of dam, spillway, the discharge channel designs and BEME 	Iragbiji, Osun State	2020	40%	Inception Report Submitted	Ongoing
23	Study and Design of Irea Earth Dam, Boripe LGA, Osun State	<ul style="list-style-type: none"> i. Estimation of water requirement ii. Identification of best dam site iii. Hydrological and geological studies iv. Foundation investigations and materials investigations v. Production of dam, spillway, the discharge channel designs and BEME 	Boripe LGA, Osun State	2020	40%	Inception Report Submitted	Ongoing
24	Study and Design of Flood and Erosion Control Works at Oyefeso Mosque in Agura, Sabo Sagamu LGA, Ogun State	<ul style="list-style-type: none"> i. Assessment of precipitation of the coverage areas. ii. Topographical survey iii. Collate and review existing related data to 	Oyefeso Mosque in Agura, Sabo Sagamu LGA, Ogun State	2020	15%	Inception Report Submitted	Ongoing

		determine suitable measure for the area iv. Determine the possible outlets for the drainage v. Prepare Reports, tender documents for the awards					
25	Operation and Turn around Maintenance of Small Earth Dams in Ogun and Oyo States	To provide maintenance of Dams in two States	Are Dam, Abeokuta, Ikere Gorge, Iseyin	2020	15%	Maintenance of Dam and Irrigation Farm to enhanced food security	
26	Operation and Turn around Maintenance of Oyan Dam in Ogun and Oyo States	To provide adequate supply of water for farming process	Oyan Dam, Abeokuta North LGA	2020	15%	Provision of food security	
27	Provision of Solar Powered Systems for Alternative Energy Supply at OORBDA Headquarters, Alabata Road, Abeokuta	To provide and install solar energy system for enhanced security.	OORBDA Headquarters Alabata, Abeokuta	2020	15%	Provision and installation of solar energy system for enhanced security	
28	Supply and Installation of 3000 KVA Transformers, 33KV in various Locations in Ikeja Federal Constituency, Lagos State	To provide electricity within the environs of Ikeja	Ikeja, Lagos	2020	81%	Provision of Public Power Supply and Lighting of Ikeja Federal Constituency.	
29	Construction and Installation of Integrated All-in-one Solar Street Lights Across Igboeze South LGA, Enugu State.	To provide and install solar energy system for enhanced security.	Igboeze South LGA, Enugu State	2020	100%	Provision and installation of solar energy system for enhanced security	

30	Provision of ICT (Internet, Intercom Web Site Development etc) Facilities.	TSA, IPSAS, Accrual Basis) GIFMIS System	Finance Department Headquarters, Odeda LGA, Ogun State	2020	100%	Provision and rehabilitation of Authority Internet	
31	Monitoring and Evaluation of Projects on Lagos, Ogun, Oyo and Osun States.	Monitoring and Evaluation of Projects in Lagos, Ogun, Oyo and Osun States.	Headquarters, Abeokuta Odeda LGA, Ogun State	2020	100%	Draft final reports submitted by Consultants	
32	Capacity Building Manpower Development	Training of OORBDA Staff locally and internationally.	HQ, Abeokuta Odeda LGA, Ogun State	2020	100%	Job Efficiency, Increased Productivity	

4.1.9.13 Boreholes Constructed in 2020

S/ N	Project Description	Location	% Level Of Completion
1	Construction of Boreholes in Odeda LGA, Ogun State	Itesi Ajegunle, Odeda LGA,	100%
2	Construction of Boreholes at Obafemi Owode LGA, Ogun State.	Inukonu Community, Adigbe, Obafemi Owode Lga	100%
3	Construction of Boreholes at Asero Estate Area, Abeokuta	Zone B, Goshen Estate Area, Asero, Abeokuta South LGA	100%
4	Construction of Boreholes at Oja Odan, Ogun State	Mosan - Yewa, Via Oja Odan, Yewa North Lga, Ogun State	100%
5	Construction of Boreholes at Iree, Osun State.	Beside Nud Primary School, Ikirun Road, Iree, Osun State	100%
6	Drilling of Borehole at Mowe/Ibafo, Ogun State	Emmanuel Oyemechi Crescent, Orimerunmu Town, Mowe, Obafemi Owode LGA, Ogun State	100%
7	Construction of Borehole at Igbeti, Oyo State.	Joseph Ajao Sarumi Compound, General Hospital Road, Igbeti, Oyo state	100%
8	Construction of Boreholes at Olubadan Estate, Ibadan, Oyo State.	2, Rd G2, Olusoji Avenue, Oluyole Estate, Idoo LGA, oyo state	100%
9	Construction Of Boreholes In Papa Ajao, Mushin, Lagos State.	6, Yusuf Street, Papa Ajao, Mushin.	100%
10	Construction of Borehole within Oyan Dam Project Site, Ogun State.	Oyan Dam Project Site, Abeokuta North LGA	100%
11	Construction of Borehole within Oyan Dam Project Site, Ogun State.	Behind Brigade Complex, Alamala Barracks, Abeokuta North LGA, ogun state	100%
12	Construction of Borehole within Ikere George Dam Project Site, Oyo State	Ikere George Dam Project Site, Oyo State	100%
13	Construction of Borehole within OORBDA Headquarters, Abeokuta, Ogun State	Senior Staff Quarters Type I, OORBDA Estate, Odeda LGA, Junior Staff Quarters, Oorbda Estate, Odeda LGA	100%
14	Rehabilitation Of Borehole Projects At Different Locations In Lagos And Ogun States.	Ijesatedo Street, Labaiwa, Oke Aregba, Abeokuta South LGA	100%
15	Rehabilitation of Borehole projects at different locations in Lagos and Ogun States.	Oloruntedo Community, Opposite Premier Grammar School, Aiyetoro Road, Abk Nth LGA	100%
		Isale Gbodo, Agosasa, Ipokia LGA	100%

16	Construction of Boreholes at Irepodun Olorunda Orolu Osogbo Federal Constituency, Osun State	Oke Ola, Ileesi, Ifon, Orolu LGA	100%
		Akindero Market Area, Osogbo LGA	100%
		Olufon Palace, Ifon Orolu LGA	100%
		Sabo Market Area, Osogbo, Olorunda LGA	100%
		Oluokun, Ede Road, Erin Osun, Irepodun LGA	100%
17	Construction Of Boreholes At Irepodun Olorunda Orolu Osogbo Fed. Const., Osun State	Omikunle Street, Konda, Ilobu, Irepodun LGA	100%
18	Construction of Boreholes at Irepodun Olorunda Orolu Osogbo Fed. Const., Osun State	Obada Market, Ifon, Orolu LGA	100%
19	Construction of Boreholes at Oshodi/Isolo Federal Constituency, Lagos State.	22, Balogun Street, Okota, Isolo, lagos	100%
		Alaba Street, Night Market, Alaba/Anuoluwapo Street, Ejigbo, Lagos	100%
20	Construction of Boreholes at Lagos Mainland Federal Constituency, Lagos State.	5, Ibadan Street, Ebute Meta West, Lagos Mainland	100%
		Down Ajayi Street, Onike, Yaba, Lagos Mainland	100%
22	Construction of Boreholes at Apapa Federal Constituency, Lagos State.	Anjorin Market, Kingsway Road, Apapa Tie Gate, by ijora	100%
23	Construction of Boreholes at Kosofe Federal Constituency, Lagos State.	Jakande Market, Ikosi Road, /117, Oworonshoki Rd By Oworo Central Mosque, Oworo, Lagos	100%
24	Construction of Boreholes at Kosofe Federal Constituency, Lagos State.	Mile 12 Market, Mile 12, lagos	100%
25	Construction of Boreholes at Kosofe Federal Constituency, Lagos State.	Space Beside No 20, Ogudu Road, Ojota, lagos	100%
26	Construction of Boreholes at Kosofe Federal Constituency, Lagos State.	Agboyin, Down River Bank Community, Agbonyin Ketu.	0%
27	Construction of Boreholes at Kosofe Federal Constituency, Lagos State	Ketu Market, Ketu,	100%
28	Construction of Boreholes at Kosofe Federal Constituency, Lagos State	Gidan Pali, Ojota, Lagos	100%
29	Construction of Boreholes at Kosofe Federal Constituency, Lagos State	House 30, Surulere Off Oworo Road, Oworonshoki	100%

30	Construction of Boreholes at Kosofe Federal Constituency, Lagos State	22, Orisigun Str, Ketu Alapere, Lagos	100%
31	Construction of Boreholes at Ibarapa East /Ido Federal Constituency, Oyo State.	School Of Deaf, Oke Ipin New Eruwa, / Oke Ola Area, Ibarapa East LGA	100%
32	Construction of Boreholes at Ibarapa East /Ido Federal Constituency, Oyo State.	Abbatiar, Isale Baale Lanlate, Ibarapa East LGA, lagos	100%
33	Construction Of Boreholes At Mushin Federal Constituency, Lagos State.	73, Kekere Owo Str, Igbehin Ilasa, Mushin, lagos	100%
34	Construction of Boreholes at Mushin Federal Constituency, Lagos State.	Kuseyi Street, Mushin, Lagos	100%
35	Construction of Boreholes at Mushin Federal Constituency, Lagos State.	Agboke Close Off Ajayi Street, Idi Araba, Mushin	100%
36	Construction of Boreholes at Mushin Federal Constituency, Lagos State.	Shogbamu Street, Lawason Mushin, Lagos	100%
37	Construction of Boreholes at Mushin Federal Constituency, Lagos State.	Yusuf Street/ Sadiku Str, Papa Ajao, Mushin, Lagos	100%
		40, Odeselu Street, Itire Mushin	100%
38	Construction of Boreholes at Ajeromi/Ifelodun Federal Constituency, Lagos State.	Adeoye Street, Amuloko/ 6, Olayinka Str, Ajegunle, lagos	100%
		Amai Str, Alafia/ Tejumola Str, Alafia	100%
		200, Ojo Road/ Boundary Market, lagos	100%
		Mission/Edidi Street/ La Pry Sch, Mosafejo, Amukoko, lagos	100%
39	Construction of Boreholes at Abeokuta North/Obafemi Owode/Odeda, Ogun State.	Holy Prophets Primary School 1 & 2 Adedotun, Ward 2, Abeokuta North LGA, ogun state	100%
		Holy Trinity Primary School, Sabo Ward 9, Abeokuta North LGA, ogun state	100%
40	Construction of Boreholes at Abeokuta North/ Obafemi Owode/ Odeda, Ogun State.	St Peter Primary School, Ikana Balogun, Ajura Ward / Olorunda Community Primary School, Ajura Ward, Obafemi Owode Lga.	100%
		Ansarudeen Primary School, Tapa, Alabata Ward, Odeda Lga	100%

		Ahmadiyya Primary School, Adepeju, Olodo Ward, Odeda LGA	100%
		All Souls Anglican Church, Ibara, Abeokuta	100%
41	Construction of Boreholes at Oluyole Federal Constituency, Oyo State.	Olode Community, Oluyole LGA	100%
		Onila And Egbeda Atuba Community, Oluyole Lga	100%
		Akinbade, Oluyole Lga	100%
		Oke Ogbere Egbeda Atuba General Association, Oluyole LGA, oyo state	100%
		Olubadan Landlord And Landladies, Oluyole LGA, oyo state	100%
		Atere Etile Community Landlord And Landladies, Oluyole LGA, oyo state	100%
42	Construction of Boreholes at Oluyole Federal Constituency, Oyo State.	Onigambari Oluyole LGA, oyo state	100%
		Lead City University, Oluyole LGA, oyo state	100%
		Alagbaa One , General Landlords Association	100%
43	Construction Of Boreholes at Oluyole Federal Constituency, Oyo State.	Shalom Community Landlord Association Asaju Asaju Egan / Seko Village , Oluyole LGA	100%
		Sanyo Agbamu, Oluyole LGA	100%
		Ajisola General Association, Olodi Estate, oyo state	100%
44	Rehabilitation of Boreholes across Surulere/Ogo Oluwa LGA, Oyo State.	Abewo, Surulere LGA, lagos state	100%
		Patiko, Surulere LGA, lagos state	100%
		Ojoku, Surulere LGA, lagos state	100%
		Osupa Orile, Ogo Oluwa LGA, oyo state	100%
		Idi Ori, Surulere LGA, lagos state	100%
		Ojo Olowo, Surulere LGA, lagos state	100%
45	Rehabilitation of Boreholes across Surulere/Ogo Oluwa LGA, Oyo State.	Oluboyepe, Surulere LGA, lagos state	100%
		Idehure, Ogo Oluwa LGA, oyo state	100%
		Ile Ebila, Ogo Oluwa LGA, oyo state	100%

		Lagbedu Orile, Ogo Oluwa LGA, oyo state	100%
		Olooko, Ogo Oluwa LGA, oyo state	100%
46	Rehabilitation of Boreholes across Surulere/Ogo Oluwa LGA, Oyo State	Hausa Community, Ogo Oluwa LGA, oyo state	100%
		Ijado Oko, Surulere LGA, lagos state	100%
47	Rehabilitation of Boreholes across Surulere/Ogo Oluwa LGA, Oyo State.	Okin Apa, Surulere LGA, lagos state	100%
		Iwo Ate, Ogo Oluwa LGA, oyo state	100%
		Obanisua, Ogo Oluwa LGA, oyo state	100%
		Alawusa Oloye, Ogooluwa LGA	100%
48	Construction of Boreholes at Ogun East Senatorial District, Ogun State	Oke Olowu Village, Ijebu North East Lga, Ogun East	100%
		Idomila Via Ijebu Ode, Ijebu North East LGA, Ogun East	100%
		Baoku Village/ Igba Ire, Oke Sopen, Ijebu Igbo, Ogun East Sen. District.	100%
49	Construction of Boreholes at Oyo South Senatorial District, Oyo State.	Abule Yenke Alapa Area, Ward 10, Lanlate, Ibarapa East Lga.	100%
		Neco Office Opposite Mtn, Idi Ape, Ibadan, Ibadan North LGA, oyo state	100%
		Aba Alamu, Apata Market, Ibadan South West LGA, oyo state	100%
50	Construction Of Boreholes In Surulere Federal Constituency, Lagos State.	Alaka Estate, By Bode Thomas Street, Surulere	100%
51	Construction of Boreholes in Surulere Federal Constituency, Lagos State.	Hogan Basseyy Beside Stadium High School, Stadium Bus Stop, Surulere	100%
		Love Garden, Onitolo Street, Opposite Onitolo Primary School, Surulere	100%
		Alapa Fuja, Rabiatsu Thompson Street, Shitta, Surulere	100%
		Gbaja Girls Secondary School, Gbaja Street, Near Onitolo Street, Surulere	100%
52	Construction of Boreholes at Alimosho Federal Constituency, Lagos State.	Iyana Ipaja Road, Beside Rauf Aregbesola Market, Alimosho	100%
		Oki Road, Oki Town, Iyana Ipaja, lagos state	100%

		Osunba Compound, Off Idoyewo Qtrs, Araromi B/S, Akesan	100%
		Oghoana Compound, Grren Land Estate Off Adewuyi Str, Idowu Egba B/S Isheri	100%
		Fatade Bus Stop, Fatade Compound, Baruwa, Opposite Central Mosque, Ayobo	100%
		Block 481, Flat 1, 4th Avenue By Green Land Field, Abesan Estate, Ipaja.	100%
		Ita Baale Bus Stop, Isheri Oshun.	100%

4.1.9.14 Constituency Projects Executed in 2020

S/N	Project Name	Project Location	% Of Completion
1	Construction of Boreholes at Alimosho Federal Constituency, Lagos State	Iyana Ipaja Road, Beside Rauf Aregbesola Market, Alimosho, Lagos	100%
		Oki Road, Oki Town, Iyana Ipaja	100%
		Osunba Compound, Off Idoyewo Qtrs., Araromi B/S , Akesan, Lagos	100%
		Oghoana Compound, Green Land Estate Off Adewuyi Str. Idowu Egba B/S Isheri, Lagos	100%
		Fatade Bus Stop, Fatade Compound, Baruwa, Opposite Central Mosque, Ayobo, Lagos	100%
		Block 481, Flat 1, 4 th Avenue by Green Land Field, Abesan Estate, Ipaja, Lagos	100%
		Ita Baale Bus Stop, Isheri Oshun	49%
2	Construction of concrete drainage at Wale Osisanya Street, Ago-Iwoye, Ijebu North LGA, Ogun State	Wale Osisanya Street, Ago-Iwoye, Ijebu North LGA, Ogun State	54%
3	Construction of flood and erosion control at Omotara Street, Aboyin Atikori, Ijebu-Igbo, Ijebu North LGA, Ogun State	Omotara Street, Aboyin Atikori, Ijebu-Igbo, Ijebu North LGA, Ogun State	95%

4	ICT Training and Provision of Equipment for Shomolu Youth in Shomolu Federal Constituency, Lagos State	Shomolu Federal Constituency, Lagos State	100%
5	ICT training and provision of equipment for Bariga Youth in Shomolu Federal Constituency, Lagos State	Bariga Federal Constituency, Lagos State	100%
6	Construction of 3 blocks classrooms with provision of office and toilets in Muslin Grammar School Itesiwaju/Kajola Federal Constituency, Oyo State	Itesiwaju/Kajola Federal Constituency, Oyo State	59%

4.1.9.15 **Agriculture and Commercial Activities**

A. Poultry Production (Layers)

The poultry production for the year started from the combination of activities of the GYEP and Revitalization of Agric. facilities in 2019 with birds stock of 5000 raised from 4th March 2019 to 9th September 2020. The total mortality recorded was 900 birds while the numbers of spend layers disposed was 4100 birds at the total sum of ₦ 5,233,300.00. The net profit realized from the poultry activities for the year was ₦ 946,206.00.

B. Piggery Sections

The opening stock for the year was 80 pigs i.e 26 piglets, 24 weaners, 2 boars, 13 dry soars, 3 Nursery soars, 12 in sows at the value of ₦1,177,000. The total income generated from the sales of pigs and pork was ₦ 1,162,000. The section has been self-sustaining to date. Presently, the closing stock for the year was 73 pigs, comprising 4 nursing sows, 15 piglets, 7 dry sows, 2 boars, and 5 in sows, 36 weaners and 4 growers with the closing value of ₦9,800,000.

C. Fishery Section

The table below shows the revenue generated from each crop.

S/N	Location	Particulars	Weight/No	Rates (₦)	Amount (₦)
1	Lekan Are,HQ	Direct catch	207.5kg	500/kg	103,750
2	Oyan Dam	Direct catch	119.5kg	400/kg	47,800
		Cropping	508.92kg	7000/25kg	142,500
		Fishing Permit			25,000
3	Ikere Gorge	Fishing permit	-	-	395,000

	Dam				
4	Sepeteri	Lease of fish pond	-	-	30,000
5	HQ Abeokuta	Sales of smoked fish, cat fish and cod fish	37.8kg	4,000/kg	151,200
	Total				895,250.00

D Crop Production

The table below shows the revenue generated from each crop

S/N	CROP	QUANTITY	AMOUNT (₦)
1	Cashew nut (headquarters)	2.38 tonnes	657,750
2	Cashew nut (Oyan Dam)	0.584 tonnes	161,500
3	Palm oil	239.93 litres	143,970
4	Palm fruits	457.33kg	13,720
5	Cassava (harvested)	30966 tonnes	238,000
6	Pawpaw	30pieces	1,000
7	Sale of logs	-	10,000
	TOTAL		1,225,940.00

E. Green House Production

In order to make the green houses to be more effective in their production for the year, the sum of N210,000 was released to each of the Green houses to boost their production. Find below the revenue generated from each location.

S/N	Location	Crop Planted	Amount (₦)	Remarks
1	Abeokuta Headquarters	Green pepper, Habanero, Cucumber	125,850.00	
2	Ibadan	Green pepper, habanero, Cucumber	151,200.00	
3	Sepeteri	Green pepper, habanero, cucumber	120,000.00	
	TOTAL		397,050.00	

F. Garri Production

The total revenue generated from Garri production as profit is ₦765,256.00.

4.1.9.16 Farmers Based Project Activities

The activities covered the revenue generated from land allocated to farmers and tractorization of their farms Revenue Generated from land management charges and tractorization

S/N	PROJECT	LAND MGT CHARGE (₦)	TRACTORIZATION (₦)	TOTAL (₦)
1	ISEYIN	530,000.00	460,000.00	990,000.00
2	IGBOJAIYE	1,750,000.00	-	1,750,000.00
3	ILERO	600,000.00	-	600,000.00
4	SEPETERI	835,000.00	312,000.00	1,147,000.00
5	OFIKI	5,000.00	72,000.00	77,000.00
6	ASA	103,000.00	-	103,000.00
7	IBADAN	1000,000.00	-	100,000.00
8	ITOKIN	800,000.00	480,000.00	1,200,000.00
9	IWO	230,000.00	142,000.00	372,000.00
10	HEADQUATERS	-	297,000.00	297,000.00
10	MOKOLOKI	720,000.00	-	720,000.00
11	OKE ODAN	515,000.00	544,000.00	1,059,000.00
12	IGAN ALADE	530,000.00	175,000.00	705,000.00
13	IJAKA	100,000.00	-	100,000.00
14	OYAN DAM	205,000.00	72,000.00	277,000.00
	Total	7,923,000.00	2,554,000.00	10,477,000.00

4.1.9.17 Detail of Revenue Generation in 2020

During the year under review, the Internally Generated Revenue amounted to the sum of N 36, 820,950.00 (Thirty-Six million, Eight Hundred and Twenty Thousand, Nine Hundred & Fifty Naira) only.

This amount comprises revenue from Agric Activities, Water Releases and Rent of Real Estate.

S/N	BUSINESS ITEMS	AMOUNT
1	Land management charge	₦ 4,490,530.55
2	Rent on facilities	₦6,393,560.46
3	Sales of agric. Produce	₦6,360,000.00
4	Fisheries	₦ 897,000.00
5	Raw water releases	₦2,420,000.00
6	Rent on staff quarters	₦2,285,169.54
7	Sales of treated water	₦6,618,985.00
8	Tractorization	₦4,574,184.45
9	Equipment hiring service	₦1,264,000.00
10	Income from hydrological data	₦860,000.00
11	Miscellaneous	₦657,520.00
	total	₦36,820,950.00



Land preparation for the drip Irrigation line



Drip Irrigation water pump source

Showing landscape and excavating erosion control Channel





Photograph of Commercial Services Projects Executed 2020



Pics. 1. Garri Processing for sales



Section of Cassava Planted.

Pics. 6. Reconstructed Poultry Pen at Headquarters



4.1.10 **SOKOTO RIMA RIVER BASIN DEVELOPMENT AUTHORITY**

4.1.10.1 **Introduction**

Sokoto-Rima Riveer Basin Development Authority is a parastatal under the supervision of the Federal Ministry of Water Resources. The Authority's areas of coverage include Katsina, Kebbi, Sokoto and Zamfara States. The headquarters of the Authority is situated in 10km Sokoto-Gusau Road, Sokoto. The Authority has three (3) Area offices located in Katsina, Zamfara and Kebbi State.

4.1.10.2 **Vision**

To provide sustainable access to safe and sufficient water resources to meet the cultural, social and economic development for the purpose of production of sufficient food for food security and employment opportunities for the teeming unemployed youth for National security as well as poverty alleviation and increase wealth creations to reduce water related diseases such as dysentery, river blindness, typhoid and cholera, etc. However, it's envisaged to further develop all the existing Dams that are multipurpose to generate electricity supply in collaboration with the relevant agencies.

4.1.10.3 **Mission**

To ensure a systematic and consistent program of harnessing, developing and conserving available water resources with a view of improving the socio-economic status and quality of life, particularly those living within the catchment areas of Sokoto, Katsina, Kebbi, and Zamfara States through provision of water for human, irrigation, livestock consumption and fisheries development, commercial and industrial utilization.

4.1.10.4 **Staff Strength:**

During the year under review, the Authority had a total strength of three hundred and sixty-four (364) staff. This comprised two hundred and sixty (260) senior and one hundred and four (104) junior staff.

4.1.10.5 **Promotion:**

The Authority successfully carried out promotion exercise in 2020. In all, a total of twenty-three (23) were promoted.

4.1.10.6 **Conversion:**

Three (3) members of staff were converted during the period under focus.

4.1.10.7 **Death:**

The Authority lost a staff within the period.

4.1.10.8 **Discipline:**

Three (3) erring staff were disciplined by the Authority in 2020.

4.1.10.9 **Board matters:**

The Authority held a Board meeting on 16th November 2020. The meeting focused on a number of policy issues including 2020 staff promotion exercise, and inspection of various projects at the headquarters.

4.1.10.10 **Training/staff welfare:**

During the period of this report, a total of five (5) staff participated in various trainings, workshops, conferences and seminars. The Authority also organized in-house capacity building programmes for the members of staff. Also welfare packages were provided to the members of staff from time to time.

4.1.10.11 **Authority's Core Projects/Schemes in 2020**

4.1.10.11.1 **Goronyo Dam/Middle River Valley Irrigation Project/Scheme, Goronyo, Sokoto State**

Achievements made on the project in 2020 include: -

- i. routine maintenance of the canals, desilting of canals and drains as well as clearing of grass and hypha;
- ii. desilting of toe drain of main dam to allow free flow of water from relief wells;
- iii. repair of broken slabs;
- iv. renovation of staff houses; and
- v. repair and maintenance of vehicles (hilux, tipper and tractors) and other machineries

4.1.10.11.2 **Shagari Dam/Irrigation Project**

Achievements recorded on the Project in 2020 include but not limited to the following:

- i. operation and maintenance of the project;
- ii. repair and maintenance of vehicles; and
- iii. supply of fuel and lubricant for minor operation

4.1.10.11.3 **Bakalori Dam/Irrigation Project**

The moderate achievements recorded on the project in 2020 include the following:

- i. rehabilitation of primary and secondary canals;
- ii. desilting of drains and repair of heavy duty machineries;
- iii. procurement of diesel to power the project; and
- iv. production of several tonnes of rice and assorted vegetables.

4.1.10.11.4 **Jibia Dam/Irrigation Project**

During the year under review, the desilting of toe drain, rehabilitation of canals, renovation of residential quarters, as well as the supply of fuel and lubricant were carried out.

4.1.10.11.5 **Zobe Dam and Irrigation Project**

Achievements made on the Project in the year 2020 were as follows:

- i. routine maintenance and operation of the project;
- ii. repair of residential houses as well as the maintenance of vehicles and machineries; and
- iii. supply of engines for project vehicles as well as the fuel and lubricant for minor schemes operation.

4.1.10.11.6 **Zauro Polder Irrigation Project**

Achievements made on the project in 2020 include:

- i. desilting of main canals, drains and cutting of over grown shrub on canals and dyke embankment;
- ii. renovation of pump water; and
- iii. renovation of residential quarters.

4.1.10.11.7 **Niger Valley Irrigation Project**

During the period under review, the following achievements were made:-

- i. Maintenance of minor irrigation schemes within the project area.
- ii. Supply of fuel and lubricant for operation of minor irrigation schemes
- iii. Repair of tractors, tippers and project vehicles.
- iv. Routine maintenance of access roads to various project sites in the area.

4.1.10.12 **Other Projects Executed by the Authority in 2020**

The other projects executed by the Authority in 2020 include:

4.1.10.12.1 **Establishment of Songhai Model Farm Centres**

The Authority in its determination to actualize the Songhai Farm Model has selected four sites for the establishment of model centres as follows:

- i. Maradun, Bakolori Irrigation Project, TalataMafara, Zamfara State.
- ii. JIBIA Irrigation Project, Jibia, Katsina State.
- iii. Kagara, Middle Rima Valley Irrigation Project, Goronyo, Sokoto State.
- iv. Bagudo, Niger Valley Irrigation Project, Bagudo, Kebbi State.

4.1.10.12.2.1 **Achievements made on the project as at 31st December, 2020 include:**

- i. Maradun, Bakolori Irrigation Project, Talata Mafara, Zamfara State, contract was first awarded in 2017 and the second phase in 2020;
- ii. Jibia, Jibia Irrigation Project, Katsina, contract was first awarded in 2017 and the second phase in 2020;
- iii. Kagara, Middle Rima Valley Irrigation Project contract was first awarded in 2018 and the second phase in 2020; and
- iv. Bagudo, Niger Valley Irrigation Project Bagudo, Kebbi State contract was first awarded in 2018 and the second phase in 2020.

4.1.10.12.3 **Bull Fattening**

The objective of the programme was to mobilise and empower youth and unemployed graduates through Agriculture by providing practical knowledge/training, support and motivation. The fattening period of 100 days was designed for Headquarters and the seven (7) projects. Two unemployed graduates were provided with one bull each with the supervision of an Expert/Veterinarian, reports from all the projects indicated that the Programme was successful. The bulls at the end of the programme were sold and one quarter of the total sales was given to the unemployed youth to facilitate sustainability of the Programme. The bull fattening is profitable in the area and can go a long way in creating job opportunity/employment and thus reduce poverty among the youth.

The Programme being the first of its kind was faced with some challenges such as high cost of feeds, pests and diseases, inadequate management etc. Some of the measures taken to address challenges faced in the care and management of the livestock include: re - training of the youth on livestock management, adequate purchase of feeds (cowpea and groundnut hay, stalks, rice brand etc.) by the graduates immediately after harvest and provision of adequate veterinary services.

4.1.10.12.4 **Support to Farmers**

Under this programme, a total of 10,183 farmers were provided with water pumps across the seven schemes under the Authority's management. This was done to assist those farmers in the downstream that could not directly benefit from water released from the water reservoirs via canals in the scheme.

4.1.10.12.5 **Support to Extension Agents**

In recognition of the importance of extension agents in the schemes, a number of motorcycles have so far been procured and provided to our farmers and Extension Agents in the seven schemes across the states

and farmers in other communities. This was done to ease transportation challenge.

4.1.10.12.6 **Dangote Support Programme**

DANGOTE provided support to farmers both at Middle Rima Valley Irrigation Project (MRVIP), Goronyo (200 farmers) and Bakolori Irrigation Scheme (BIS), Talata Mafara (200 farmers). The support was a loan facility provided in kind (inputs) and not in cash with a view to ensuring that farmers make use of the support for the purpose it was meant for. Farmers (90%) have repaid the loan (using their paddy) at the end of the harvest period.

Apart from this support, DANGOTE was building a Rice Milling Plant at Maradun with an installed capacity of processing 320 metric tonnes of milled rice per day.

4.1.10.13 **Partnership/Collaboration with Organizations**

As part of the Authority's objective of ensuring that our farmers and staff benefit from various activities undertaken by different organizations to either develop the capacity of farmers and staff and/or provide certain support to them. It is partnering with various National and International organizations to achieve this objective. Some of the organizations the Authority is partnering with include the following:

4.1.10.13.1 **Collaboration with Transforming Irrigation Management in Nigeria (TRIMING)**

A number of collaborative activities are going on between TRIMING and Sokoto Rima Basin Development Authority. However, the two most important ones in the area of Agricultural development are researches being conducted on: Rice Value Chain Development by AfricaRice and System of Rice Intensification by Institute of Agricultural Research (IAR), Ahmadu Bello University, Zaria.

Activities so far carried out by the two institutions were as follows:

- i. Rice Value Chain Development by Africarice.
- ii. Establishment of Goronyo Rice Innovation Platform (GRIP).
- iii. Post-harvest, Processing and Marketing.

4.1.10.13.2 **System of Rice Intensification by Institute of Agricultural Research (IAR), Ahmadu Bello University, Zaria.**

Under this research activity, the following activities were conducted:

- i. designed and fabricated tools and machineries (power-tillers, motorized rotary weeders, hand deep fertilizer applicator, motorized rice ripper and alternate powered rice threshers);

- ii. conducted participatory action research with the tools and machines and evaluated their performance, profitability, and acceptability for SRI adoption in BIP;
- iii. conducted training on operation and maintenance of tools and machineries in BIP;
- iv. conducted Participatory Action Research on Fertilizer Use Efficiency;
- v. demonstrated different techniques of compost production in BIP;
- vi. identified, prioritized and documented the current cropping patterns/sequence in BIP;
- vii. conducted and established framework for participatory monitoring and evaluation of the developed cropping patterns/sequence in BIP;
- viii. conducted Training of trainers (TOT) on SRI practices, and cropping patterns/sequence; and
- ix. conducted Training of farmer organizations and Extension Agents on group dynamics, extension methodologies and farmer field school (FFS).

4.1.10.13.3 **Training of farmers on Farmer Field School (FFS) by Sokoto Agricultural Development Project (SADP) sponsored by TRIMING Project.**

The Authority is in partnership with SADP to train the Authority's farmers on FFS and other Good Agricultural Practices (GAP). A Farmer Field School is a group based adult learning approach that teaches farmers how to experiment and solve problems independently. The term is sometimes called "schools without walls". Under this programme, farmers come together and meet periodically with a facilitator. They observe, talk, discuss, ask questions and learn together under the guidance of a facilitator. Some of the technologies they learn include transplanting, spacing, fertilizer application, compost making, pests/diseases control etc.

4.1.10.13.4 **Wacot Rice Mill, Argungu, Kebbi State**

In order to ensure that our farmers benefit from the credit facility provided by Nigerian Incentive Based Risk Sharing System for Agricultural Lending (NIRSAL) and CBN under the Anchor Borrowers Programme, a partnership is being sought with WACOT to serve as an off-taker and inputs supplier to rice farmers at Niger Valley Irrigation Scheme and Zauro Polder Project, Birnin Kebbi. WACOT has written a letter to Sokoto Rima expressing its interest to collaborate with the

Authority and has also started selling Agrochemicals (herbicides, pesticides etc.) to our farmers at subsidized prices.

4.1.10.13.5 National Information Technology Development Agency (NITDA) and National Communication Commission (NCC)

The Authority, during the period under review, partnered with National Information Technology Development Agency and National Communication Commission for the establishment of Smart Agricultural Projects/Job Creation Centres in four of the Authority's Songhai Model Farm Centres.

The objective was to provide a good platform for the training of women and youth farmers, staff of the Authority and other individuals or groups wish to undertake agriculture as a business on good agricultural practices including marketing and ICT on Agribusiness. Under this programme, the Nigerian Communication Commission had provided 115 E-Learning Ipad to the Authority.

4.1.10.14 Mobilization and Organization of Water Users Association (WUAs) in the Schemes executed by the Authority

The sustainability of the projects executed by the Authority significantly depends on the effective Water Users Associations (WUAs). The WUAs strategies had been adopted in the key projects in the SRRBDA as at December, 2020. WUA were being expected to use proceeds from water charges to carry out operation and maintenance (O&M) at the tertiary levels.

4.1.10.15 Graduate/Youth Empowerment Programme:

The Graduate Youth Empowerment Programme was an initiative of the Hon. Minister of Water Resources intended to resuscitate Agricultural activities of the River Basin Development Authorities with the objective of restoring their mandate. This is expected to reduce the rate of unemployment by making Graduate Youth to be self employed, efficient and self reliant and as well improve Food Security in the Country through Agriculture.

In line with the Ministerial guidelines, the programme consists of four distinct sub-programmes viz: Hands on training, Inputs requirement, Participants, Incentives for the participants. The Programme was introduced at Bakalori Irrigation Project, TalataMafara in 2016 with 50 participants (40, males and 10 females) each was provided with one hectare of land and was trained on Good Agricultural Practices (GAP) by the TRIMING project.

During the period under review, the following were achieved in year 2020.

- i. released by the Managing Director the sum of N3,250, 000.00 to the beneficiaries;
- ii. inputs such as improve seeds, fertilizers, chemicals etc. were provided to the beneficiaries by Inter - Product Link Nigeria Limited on loan which they paid after harvest; and
- iii. fifteen out of the 50 participants grew Wheat and obtained 13.08 tonnes per hectare in the first phase and 47 beneficiaries cultivated Rice and obtained 3.1 tonnes per hectare in the second phase of the Programme.

4.1.10.16 Other Projects Executed by the Authority in 2020

During the period under review, the Authority executed a number of water, flood and erosion control projects. Some these projects had been completed while others were still ongoing. The projects and their percentages levels of completion were as follows:-

S/N	PROJECT TITLE	% LEVEL OF COMPLETION
i	Erosion control at Old Market in Matazu LGA of Katsina State	100%
ii	Erosion control at Salah Tanbuwal LGA, Sokoto State	100%
iii	Rehabilitation of Zabaro Earth Dam, Dutsi Katsina State	100%
iv	Flood and Erosion control and Rural Water Supply Project in Budawa Village Kafur LGA, Katsina State	100%
v	Rehabilitation of Maska Earth Dam	100%
vi	Land Reclamation/Erosion control at Kankiya, Katsina State	100%
vii	Construction of Earth Dam at Goya Funtua/Dandume Federal Constituency	100%
viii	Land Reclamation/Erosion control in Katsina South Senatorial District	100%
ix	Construction of Bridges in Dala, Sanga LGA and Water Scheme and Reticulation in Yauri Town, Yauri LGA, Kebbi State	100%
x	Rehabilitation of Jurara Bridge of Kwami LGA and Construction of motorized borehole in Tulawange Kaltungo LGA, Gombe State	100%
xi	Flood and Erosion control at GGDSS Gumi Zamfara State and Provision of Boreholes in Gumi/Bukuyum Federal Constituency, Zamfara State	100%
xii	Minor Irrigation Scheme at Fadamar Goshe, Saida and Gudun in Tambuwal LGA, Sokoto State	100%
xiii	Provision of Tubewells and Water pumps at Sabke Irrigation, Daura, Katsina State	100%
xiv	Establishment of Fish Pond, Poultry and Table Water Company at SRRDA Headquarters, Sokoto	100%
xv	Construction of Earth Dam/Irrigation at Gwandu LGA, Kebbi State	100%
xvi	Construction of Small Irrigation Schemes at Gindi Area, Jega LGA, Kalli and Sabiyal Aliero LGA, Gulmare and Yoile Gwandu LGA, Kebbi State	100%
xvii	Construction of Anka Earth Dam, Zamfara State	100%

S/N	PROJECT TITLE	% LEVEL OF COMPLETION
xviii	Construction of Madacci/Bakaya Erosion Control Structure, Sokoto	100%
xix	Maintenance of Zamfara, Kebbi and Katsina Area Offices	100%
xx	Construction of Bangala Earth Dam, Argungu LGA, Kebbi State	100%
xxi	Construction of Dangani Earth Dam, Matazu LGA, Katsina State	100%
xxii	Construction of Shallow Tubewells in Fadama Areas and Supply of Water Pumping Machines for Dry Season Irrigation of Farming in Zamfara West Senatorial District	100%
xxiii	Construction of Small Irrigation Schemes at Tsau Irrigation, R/Tsamiya and Madasia Scheme at Mai-aduwa and Sandamu LGA	100%
xxiv	Construction of Minor Irrigation Scheme at Salah, Barkeji, Gangumma, Banchu, Illela and Dogon Daji, Tambuwal, Sokoto State	100%
xxv	Construction of Small Irrigation Scheme at Mani LGA, Katsina State	100%
xxvi	Construction of Small Irrigation Scheme at different locations in Katsina South Senatorial District	100%
xxvii	Construction of Minor Irrigation Schemes at Gyalange, Zamfara State	100%
xxviii	Construction of Minor Irrigation Scheme Gadar Gawo, Argungu, Kebbi State	100%
xxix	Construction of Small Irrigation Scheme Water Supply at Kankiya/Kusada/Ingawa in Katsina State	100%
xxx	Construction of Small Irrigation Scheme in Fadama Area of Sabuwa District and Water Supply Scheme in Faskari/Kankara/Sabuwa Federal Constituency, Katsina	100%
xxxi	Construction of Small Irrigation Scheme in Mashi Area of Dutsi LGA, Katsina State	100%
xxxii	Installation of Automatic Weather Station at Headquarters and all the Projects	100%

4.1.10.17 **Constituency Projects Executed by the Authority in 2020 (Water Components)**

S/N	PROJECT TITLE	% LEVEL OF COMPLETION
i	Construction of Water Reticulation System in Adamu Augie College of Education in Kebbi Senatorial District, Kebbi State	100%
ii	Construction of Solar Boreholes Schemes in Zamfara Central District, Zamfara State	100%
iii	Construction of Hand Pump Boreholes in Zamfara North Senatorial District, Zamfara State	
iv	Construction of Water Supply in Ashaka Gari Funa Kaye LGA in Gombe Kwami/Kunkak Aye Federal Constituency of Gombe State	100%
v	Construction and Installation of Hand Pump Boreholes at	100%

S/N	PROJECT TITLE	% LEVEL OF COMPLETION
	various locations in Kankia Kusada/Ingawa Federal Constituency	

4.1.10.18 Boreholes Constructed in 2020 (Name/Location, Level of Completion)

S/N	PROJECT TITLE	% LEVEL OF COMPLETION
i	Completion of Kaura Namoda Water Works (2019 Budget) in Zamfara North Senatorial District, Zamfara State	100%
ii	Construction of Hand Pump Boreholes in Zamfara North Senatorial District	100%
iii	Solar Boreholes Scheme in Zamfara Central Senatorial District, Zamfara State	100%
iv	Construction of Water Reticulation System in Adamu Augie College of Education in Kebbi Senatorial District, Kebbi State	100%
v	Empowerment items for Farmers in Kano North Senatorial District, Kano State	100%
vi	Construction of Water Supply in Ashaka Fari in Funakaya LGA in Gombe, Kwami/Kunakaya Federal Constituency of Gombe State	100%
vii	Construction of and Installation of Hand Pump Boreholes at various location at Kusada/Kankia/Ingawa Federal Constituency, Katsina State	100%
viii	Supply of Toyota 18 Seater Bus to Kaura Namoda/Birnin Magaji Federal Constituency, Zamfara State	100%
ix	Supply of Toyota 18 Hilux to Kaura Namoda/Birnin Magaji Federal Constituency, Zamfara State	100%
x	Renovation of Abbatoirs in Gumi/Bukuyum Federal Constituency of Zamfara State	100%
xi	Supply of Daylong Motorcycles in Sokoto North LGA of Sokoto North/South Federal Constituency, Sokoto State	100%
xii	Construction of 1 No. Motorized Borehole at Gakar Dogo-Kafi Mari Near Central Market Area, Argungu, Kebbi State	100%

4.1.10.19 2019/2020 Crop production Data

The Authority had eight (8) schemes as stated below with large irrigation land with significant areas already developed, areas cropped with varieties of crop as well as the farming families as stated below:

S/N	IRRIGATION SCHEME	PRODUCTION IN TONNAGE (TonS)						FARMING FAMILIES
		RICE	MAIZE	COWPEA	WHEAT	TOMATOES	PEPPER	
1	Bakori Irrigation Project , Talata Mafara, Zamfara State	70500	1860	1005	775	8400	2200	153000

2	JIBIA Irrigation Project, Jibia, Katsina State	-	930	756	3170	2400	1180	30000
3	Middle Rima Valley Irrigation Project, Goronyo, Sokoto State	8875	390	382.5	437.5	768	600	22992
4	Zobe Irrigation Project, Dutsima, Katsina State	350	15	7.5	70	56	50	1440
5	Zauro Irrigation Project, Zauro, Kebbi State	320	8	12	-	48	60	1080
6	Niger Valley Irrigation Project, Bagudo, Kebbi State	18260	960	367.5	350	1240	880	55200
7	Shagari Irrigation Project, Shagari, Sokoto State	215	108	69	-	480	500	2820
8	Minor Irrigation Schemes, Sokoto, Kebbi, Katsina & Zamfara States	72500	5850	1560	7425	8040	7600	237000
	TOTAL	171020	10131	4160	1228	21432	12070	503532

4.1.10.20 Details of Revenue Generation in 2020

During the period under review, the Authority realized a total of Twenty-Four Million, Seven Hundred and Fifty-Five Thousand, Seven Hundred and Sixty-Two Naira, Fifty Kobo (₦24,755,762.50). The breakdown is presented below:-

S/NO	REVENUE ITEM - 2020	HEADQUARTERS SOKOTO	BAKOLORI IRRIGATION PROJECT, MAFARA, ZAMFARA	ZAURO POLDER PROJECT, KEBBI	ZOBE IRRIGATION PROJECT, KATSINA	NIGER VALLEY IRRIGATION PROJECT, BAGUDO, KEBBI	JIBIA IRRIGATION PROJECT, KATSINA	GORONYO DAM PROJECT, SOKOTO	GRAND TOTAL
1	Rent of Quarters (Staff)	2,371,630.00	2,740,000.00	330,000.00	150,000.00	250,000.00	20,000.00	220,000.00	6,081,630.00
2	Tender Fees	1,610,000.00							1,610,000.00
3	Plant and Machinery								
4	Water Charges		10,378,550.00	200,000.00			120,000.00	150,000.00	10,848,550.00
5	Lands Lease		5,285,582.50	500,000.00		350,000.00	30,000.00	250,000.00	6,065,582.50
6	Sales of Fruits		150,000.00						150,000.00
7	Fisheries								
	GRAND TOTAL	3,981,630.00	18,554,132.50	1,030,000.00	150,000.00	250,000.00	170,000.00	620,000.00	24,755,762.50

4.1.10.21 **Specific Challenges/Constraints**

The Authority is faced with several challenges in the implementation of its new and ongoing projects, as well as the operation and maintenance of existing dams and irrigation projects during the year 2020 as follows:

- i. deterioration of the major dams and irrigation projects under the command of SRRBDA which the cost of rehabilitation is far beyond the budgetary allocations;
- ii. natural hazards/climatic change;
- iii. inadequate professional/technical staff to operate the Dams;
- iv. lack of irrigation and extension services workers for effective operation of the irrigation structures and advisory services to the farmers;
- v. lean budgetary provision and lack of rolling over budget;
- vi. Inadequate Plants and Machineries;
- vii. Non-payment of Revenue (Land lease, Water Charges, etc.; and
- viii. Inadequate Security.

4.1.10.22 **Way Forward/Future Direction of the Authority**

In order to improve on the performance of the Authority and enhance rapid socio-economic development within the River Basin catchment areas, there is urgent need for:

- i. immediate rehabilitation of major Dams at (B.I.P. T/Mafara, G.D.P Goronyo, Z.I.P Dutsin-ma and J.I.P Jibia) and Irrigation infrastructure to ensure stability and safety as well as efficient service delivery to the irrigation/farmers, increase revenue generation;
- ii. employment of skilled manpower for effective project management;
- iii. regular training and re-training of staff;
- iv. capacity building of farmers for effective participation in the management of their irrigation schemes;
- v. establishment of vegetable processing plants by private sector through public private partnership;
- vi. empower monitoring and Evaluation and ICT units;
- vii. provide adequate extension Staff;
- viii. provision of adequate/quality input to the farmers at subsidized rate and at the right time;

- ix. provision of adequate farm machineries to the Project areas;
- x. to provide enabling environment for investment to produce crops processing industries and marketing;
- xi. general improvement of all fishing activities at the various projects;
- xii. revitalization of plant and machinerie;
- xiii. procurement of additional modern Plants and Machineries;
- xiv. expansion and put to use of Zobe Irrigation Project, Dutsin-ma, Katsina State;
- xv. put into use the completed Shagari Irrigation scheme in Sokoto state;
- xvi. expansion of Zauro polder scheme at Birnin Kebbi;
- xvii. completion and put to use of Sabke Dam irrigation Project;
- xviii. development of Niger Valley Irrigation project at (Zaria Kala-kala) Bagudo; Local Government in Kebbi State;
- xix. promptpayment of revenue (land lease, water charges, etc.);
- xx. provision of adequate Security

4.1.11 **UPPER BENUE RIVER BASIN DEVELOPMENT AUTHORITY**

4.1.11.1 **Introduction**

Upper Benue River Basin Development Authority is one of the twelve (12) in the country. Its administrative headquarters is located in Yola, Adamawa State. The Authority's operational area covers the whole of Gombe and Taraba States, two senatorial districts of Adamawa State and one senatorial district of Bauchi State.

4.1.11.2 **Vision**

To improve the overall standard of living through optimal provision of water resources in a way that will enhance Public Health, Food Security, Poverty Reduction while maintaining the integrity of fresh water ecosystem of the Upper Benue Basin.

4.1.11.3 **Mission**

- i. To develop irrigable land and supply water for multi-purpose uses in the upper reaches of the River Benue Basin;
- ii. To develop and maintain up-to-date water resources master plan and data bank in the region.

4.1.11.4 **Staff Strength**

As at 31st December 2020, the Authority's Staff strength stood at three hundred and sixty (360) comprising two hundred and twenty-nine (229) senior and one hundred and thirty-one (131) junior staff

4.1.11.5 **Promotion**

The Authority successfully carried out promotion exercise in 2020. In all, a total of one hundred and forty-four (144) staff comprising twenty-seven (27) senior and one hundred and seventeen (117) junior staff were promoted.

4.1.11.6 **Conversion**

Nine (9) members of staff were converted in 2020.

4.1.11.7 **Upgrading**

Twenty-one (21) members of staff were upgraded to the next higher position in 2020.

4.1.11.8 **Resignation**

Two (2) members of staff voluntarily resigned their appointments in 2020.

4.1.11.9 **Training/Staff Welfare**

During the period under review, a total of eleven (11) staff benefitted from various training programme in 2020. Beside this, various welfare items were distributed to the members of staff to cushion the effect of COVID-19 pandemic.

4.1.11.10 **Board Matters**

The Authority held four (4) Board meetings during the year under review. The focus of the meetings was mainly to come up with policy

measures to fast track smooth running of the basin, set targets and ensuring that the targets were achieved, approval of 2020 promotion exercise as well as the recommendations of deserving staff for long service awards/awards of excellence.

4.1.11.11 Core Projects executed by the Authority in 2020

4.1.11.11.1 Annual Routine Maintenance of Kiri Dam and Irrigation Infrastructure

The year 2020 annual routine maintenance of Dam and Irrigation covered the following components:

- i. rehabilitation of left bank protection dyke;
- ii. rehabilitation of Project Manager's office, power house and clearing of the embankment;
- iii. construction of right bank canal Irish Forte Crossing Erosion (1 to 4);
- iv. installation of Surveillance Equipment (CCTV); and
- v. procurement of additional 51,000 litres of AGO (Diesel).

4.1.11.11.2 Dadin Kowa Dam and Irrigation Project

Achievements in 2020 on the project include:

- i. rehabilitation of access road to the project;
- ii. rehabilitation of additional 600metre Estate access road;
- iii. dismantling and re-installation of two (2) Nos. surface Solar Powered Irrigation pumps from the pilot farm to Draw Back Area at Garin Rafi, Gombe State; and
- iv. completion of development of 40ha irrigation scheme at Garin Rafi Draw Back Area, Dadin Kowa, Gombe.

4.1.11.11.2 Yola Reclamation (Lake Geriyo) Project

The project is located at Geriyo near Jimeta-Yola metropolis. It was designed to reclaim 1,200 ha of land to be developed for irrigation at Geriyo.

Achievements in 2020 include the following:

- i. enumeration of the authority's undeveloped area;
- ii. rehabilitation of irrigation canals; and

- iii. emergency procurement of additional 45,000 litres of AGO (Diesel) for Lake Geriyo Irrigation Scheme.

4.1.11.11.3 **Waya Dam Project**

Achievements recorded on the project in 2020 was the rehabilitation of office structure, access road and pilot irrigation scheme.

4.1.11.11.4 **Lower Taraba Irrigation Project**

During the period under focus, the Authority recorded the following achievements on the project:

- i. rehabilitation of access road to the project; and
- ii. rehabilitation of office building of the project.

4.1.11.11.5 **Cham Dam and Irrigation Project**

As at 31st December 2020, the reconstruction of the Cham Dam was still in progress and its completion level stood at 52%.

4.1.11.11.6 **Headquarters Rehabilitation**

During the period under focus, the Authority recorded the following achievements on the project:

- i. renovation of eleven (11) houses at the staff quarters in the headquarters; and
- ii. installation of all-in-one solar street light.

4.1.11.11.7 **Hydromet/Meteorological Activities**

The Authority maintains network of hydrological stations on some rivers for water level monitoring and discharge measurements. It also maintained meteorological station in all its statutory projects.

The following achievements were recorded in 2020

- i. rehabilitation/Replacement of 7 Nos. Gauge Stations at Chikto, Wuro Bokki, Dasin, Jimeta, Numan, Lau and Ibbi; and
- ii. procurement and installation of Davis Pro-2 Automatic Weather stations at Gassol, Gembu and Waya Dam Projects.

4.1.11.12 **Other Projects Executed by the Authority in 2020**

S/N	PROJECT TITLE	Status and Specific Achievements In 2020	% level of completion as at 31st december, 2020

i.	Mararraban Donga Dam and Irrigation Project	Minor rehabilitation of access to the project	32%
ii.	Belel Weir Water Supply Project	Dam construction, dam stalled due to lack of budgetary provision	30%
iii.	Completion of Gobiya Dam and Irrigation Project	Dam Construction was still in progress	100%
iv.	Ledde-Zange Earth Dam and Irrigation Project	Remedial work, erosion control and reservoir expansion.	96%
v.	Kaltungo Dam and Water Supply Project	Construction of access road was still in progress.	90%
vi.	Tudun Wada Storm Water	Construction of (250 metres) reinforce concrete drainage channel phase II	100%
vii.	Renovation of Earth Dam at Shuwe, Dukku LGAs, Gombe State	Rehabilitation of the dam was carried out	100%
viii.	Survey and Design of small earth dams in selected locations in Taraba	Study and design of small Earth Dam in three selected locations in Taraba State	100%
ix.	Ongoing construction of Gagarachiya Water Control Gate in Yobe State	Construction of Garachiya Water Control Gate	100%
x.	Access Road with culverts to Rural Farming Communities of Bade, Nguru and Yusufari LGAs, Yobe State.	Construction of access road with culverts to rural farming communities of Bade, Nguru and Yusufari LGAs were still in progress	45%
xi.	Completion of Earth Dam at Tango in Funakaye LGA, Gombe State.	Completion of Earth Dam at Tango in funakeye LGA	100%
xii.	Minor Irrigation Development in nine (9) Senatorial District of the Authority's Area of Jurisdiction	<ul style="list-style-type: none"> • Procurement of 319 Nos. 2" water pump to small scale farming communities along flood plain of Benue tributaries within the Authority's area of jurisdiction • About 319 farmers benefitted from distribution of water pumps. • Approximately 209 ha 	100%

		were irrigated	
xiii.	Completion of Numan Minor Irrigation Project	<ul style="list-style-type: none"> • Procurement of additional 170 Nos. 3” water pumps • 170 farmers benefitted from distribution of water pumps. 	100%
xiv.	Construction of Chanchangi Dam and Water Supply	Dam Construction was still in progress.	15%
xv.	Rehabilitation of Kwagwang Limau and Milende (5 km) Rural Road in UBA/HILDI Development Area, Adamawa State	Rehabilitation of 5 km Rural Road was still in progress	45%
xvi.	Songhai Model Farm (Integrated Water Resources Management Irrigation Scheme)	Establishment of Shonghai Model Farm at Tallum (Adamawa State), Waya Dam (Bauchi State), Ruwan Sanyi (Gombe State) and Gassol (Taraba State)	100%
xvii.	Supply of water pumping machines for subsistence farmers in Nguru, machina, Yusufari and Bade Emirates, Yobe State	Supplied of 820 Nos. 2” water pumping machines for subsistence farmers in Machina, Nguru, Yusufari and Bade LGAs/Yobe State	100%

4.1.11.13 Zonal Intervention Projects executed by the Authority in year 2020

S/N	Project Title	% Level of Completion
A	Extension Of Water Pipeline And Reduction Of Shongo Sarkin Yaki In Gombe Local Government Area Of Gombe North Senatorial District Of Gombe State	
i.	Construction of 1 No. Solar Powered Borehole with	100%

	overhead tank at Shongo Sarki Yaki in Gombe LGA of Gombe North Senatorial District, Gombe State.	
B	Construction Of Hand Pumps At Selected Area In Gombe North Senatorial District Of Gombe State	
i.	Drilling and installation of six (6) Nos. Hand Pump Boreholes in selected Areas of Dukku LGA, Gombe North Senatorial District, Gombe State.	100%
ii.	Drilling and Installation of six (6) Nos. Hand Pump Boreholes in selected Areas of Kwami LGA, Gombe North Senatorial District, Gombe State.	100%
iii.	Drilling and Installation of Seven (7) Nos. Hand Pump Boreholes in selected Areas of Funakaye LGA, Gombe North Senatorial District, Gombe State.	100%
C	Supply Of Water Pumps Machines And Pesticides To Toro Federal Constituency, Bauchi State	
i.	Supply of 200 Nos. 2" Water pumping machines, 160 cartons of Herbicides, 90 Nos. Bags of NPK and 90 Nos. bags of Urea to Toro Federal Constituency, Bauchi State.	100%
D	Provision Of Potable Water At Pindiga, Tunfure And Other Parts Of Akko Federal Constituency Gombe State	
i.	Provision of potable water at Pindiga, Tunfure and other parts of Akko Federal Constituency, Gombe State	100%
ii.	Drilling of boreholes at Pindiga, Akko Federal Constituency, Gombe State.	100%
E	Purchase Of Four (4) Tons Of Fertilizer Herbisides Farm Implements For Farmers In Ibi, Wukari Constituency Taraba State	
i.	Purchase of fertilizer (110 bags of NPK and 110 bags of Urea) and 60 cartons of herbicides for farmers in Ibbi LGA, Ibbi/Wukari Federal Constituency, Taraba State	100%
ii.	Purchase of fertilizer (280 bags of NPK and 280 bags of Urea) and 200 cartons of herbicides for farmers in Wukari LGA, Ibbi/Wukari Federal Constituency, Taraba State.	100%
F	Water Supply Scheme At Jalingo/Yorro/Zing.\, Taraba State	
i.	Drilling and Installation of Nine (9) Nos. Hand pump boreholes in selected location of Jalingo LGA, Jalingo/Yorro/Zing Federal Constituency, Taraba State.	100%
ii.	Drilling and Installation of Nine (9) Nos. Hand Pump Boreholes in selected location of Yorro LGA, Jalingo/Yorro/Zing Federal Constituency, Taraba State.	100%
iii.	Drilling and Installation of Six (6) Nos. Hand Pump Boreholes in selected location of Zing LGA, Jalingo/Yorro/Zing Federal Constituency, Taraba State.	100%
iv.	Drilling and Installation of five (5) Nos. Hand Pump Boreholes in selected location of Jalingo/Yorro/Zing Federal Constituency, Taraba State.	100%

4.1.11.14 **Boreholes Constructed in year 2020 (Name, Location, Level Of Completion)**

S/N	Project Title	Project Description	% Level Of Completion	Specific achievements Recorded by the Project in 2020	No. of Person Benefitting or to Benefit from potable water supply
1	Underground Water Development	Drilling & Installation Hand pump and motorized boreholes at <ul style="list-style-type: none"> • Gombe State (6Nos) • Taraba State (6Nos) • Bauchi State (6Nos) • Adamawa State (1No) motorized 	100%	18Nos. Hand pumps and 1 Motorized boreholes completed	About 1,050 persons benefitting from potable water
2	Construction of Solar Powered Boreholes in Farming Communities of Bade, Nguru and Yusufari LGAs	Construction of 24Nos. Solar Powered Boreholes in Bade, Nguru and Yusufari LGA of Yobe	100%	24 Nos. Solar powered boreholes completed	About 3,600 persons benefitting from potable water
3	Construction of Solar Powered Boreholes in Bauchi Central Senatorial District, Bauchi State	Construction of 7Nos. Solar Powered Boreholes and Rehabilitation of 1No at selected location of Bauchi Central Senatorial District	100%	7 Nos. Solar powered boreholes and rehabilitation of 1No. completed	About 1,050 persons benefitting from potable water

4	Construction of Solar Powered Boreholes with 10,000 litres overhead tank at various locations of Ardo-Kola/Karim-Lamido/Lau Federal Constituency	Construction of 2Nos. Solar Powered Boreholes with 10,000l overhead tank at Ardo Kola/Karim-Lamido/Lau Federal, Constuency. Taraba state	100%	2 Nos. Solar Powered boreholes with 10,000ltrs overhead tank completed	About 300 persons benefitting from potable water
5	Provision of Motorized/HandPump Borholes at Yamaltu/Deba Federal Constituency	Provision of 2Nos. Motorised Boreholes and Rehabilitation of 1No. Solar Powered Boreholes in Yamaltu/Deba Federal Consteuncy. Gombe State	100%	2 Nos. Motorised boreholes and 1No. Rehabilitation completed	About 300 persons benefitting from potable water
6	Provision of Solar Powered Boreholes in various locations of Toungo/Ganye/Jada/Mayo-Belwa Federal Constituency	Construction of 11Nos. Hand Pump Boreholes in various Location Adamawa Federal Constituency	100%	11Nos. Hand Pump Boreholes Completed	About 550 persons benefitting from potable water
7	Construction of Solar Powered Boreholes in Yola North, Yola South, Girei, Fufore, Song, Gombi, Hong In Adamawa Central Senatorial District, Adamawa State	Construction of 20Nos. Solar Powered Boreholes and Rehabilitation of 1No. Solar Powered Boreholes in Central Senatorial District of Adamawa State	100%	20Nos. Solar Powered Boreholes and 1No. Rehabilitation Completed	About 3,000 persons benefitting from potable water

8	Construction of Solar Powered Boreholes and Reticulation in Biu And Shani, Borno State	Construction of 20Nos. Solar Powered Boreholes and reticulation in selected location in Biu and Shani LGA of Borno State	100%	20Nos.Solar Powered Boreholes Completed	About 3,000 persons benefitting from potable water
9	Construction of Solar Powered Boreholes in Bauchi North Senatorial District, Bauchi State	Construction of 19Nos. Solar Powered Boreholes in selected location of North senatorial District Bauchi State	100%	19Nos Solar Powered Boreholes Completed	About 2,850 persons benefitting from potable water
10	Construction of Solar Powered Boreholes in Gwala Village in Karim-Lamido Taraba State	Construction of 5Nos. Solar Powered Boreholes in Karim-Lamido Of Taraba State	100%	5Nos. Solar Powered Boreholes Completed	About 750 persons benefitting from potable water
11	Provision of Hand Pump Boreholes and other Irrigation Equipments for Dry Season Farming to some selected Cooperative Societies in Taraba State	Provision of hand pump Boreholes in selected Location of Taraba State	100%	Hand pump Boreholes Completed	About 100 Persons benefitting from potable water
12	Installation of Solar Powered Boreholes in Adamawa Central Senatorial District, Adamawa State	Construction of 8Nos. Solar Powered Boreholes, Rehabilitation of existing and Drilling and Installation of 1No Hand	100%	8No. Solar Powered Boreholes, Rehabilitation and Drilling and Installation Completed	About 1,200 persons benefitting from potable water

		Pump Borehole in Selected of Adamawa Central senatorial District			
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4.1.11.15 **Employment Generation in 2020**

- i. During the implementation of 2020 Core/Ongoing projects, the Authority has created employment to about **5,007** youths (skilled & unskilled) while about **17,750** persons benefitted from water supply schemes and **1,309** farmers benefitted from the Authority's irrigation schemes, across nine Senatorial District.
- ii. In the case of zonal intervention projects, the Authority has created employment to about **305** to the unemployed youths (skilled & unskilled) while **3,150** persons benefitted from water supply schemes and **590** farmers benefitted from minor irrigation schemes (Fadama).

4.1.11.16 **Internally Generated Revenues**

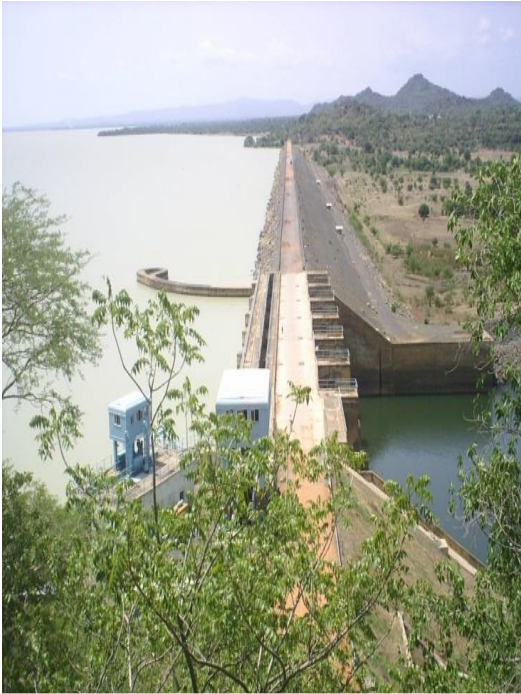
During the period under review, the Authority generated a total of Two hundred and Seventy-one million, Three Hundred and Thirty-Nine Thousand, Six Hundred and Thirty-Five Naira and ThirtyEight Kobo) ₦271,339,635.38 only as the internally generated revenues.

Detail breakdown was as follows:

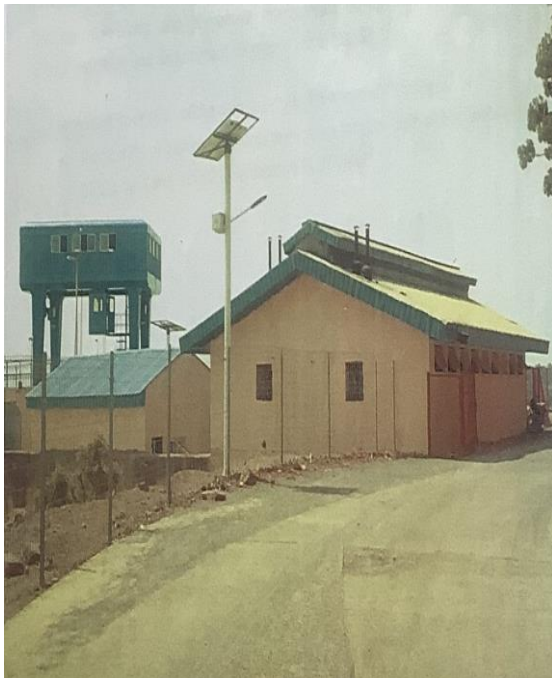
S/N	SOURCE OF INCOME	AMOUNT (₦)	25% REMITTANCE TO CRF
i.	Tender Fee	2,918,912.50	Independence Revenue
ii.	Contractor's Registration Fee	152,418.75	Independence Revenue
iii.	Water Charges (Internally Generated Revenue)	268,268,304.13	67,067,076.03
	Total	271,339,635.38	

4.1.11.17 **Way Forward/ Future Direction of the Authority**

The current plans of the Authority include completion of on-going dams, water supply and irrigation schemes to complement the Change Agenda of Current Administration on food security, employment generation and poverty eradication.

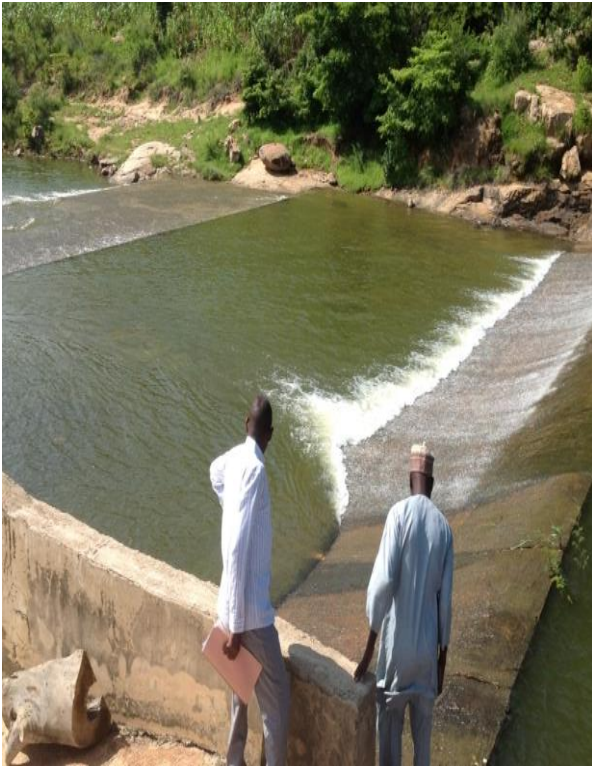


Kiri Dam Reservoir and embankment crest
Kiri Dam Spillway Radial Gates & Discharge Channel



Rehabilitation of PM Office and Power House
Erosion control works along 12.5KM canal access road

Waya Dam and Irrigation Project



Spillway



Power house

Yola Irrigation Project



Rehabilitated Primary and Secondary Canals

RE-CONSTRUCTION OF CHAM DAM AND IRRIGATION PROJECT



Dam Reservoir



Dam Crest





14,678 Farmers (1ha Per Farmer) benefitted from the Dry Season Program for 2020/2021. 10 LGAs with 67 Villages Association, From The States of Adamawa, Bauchi, Borno and Gombe Are Beneficiaries of the Program. So Far 36,557 Bags of Rice was the First Recovery from the Program



Solar Powered Boreholes at Tike and Damdu in Yola South LGA, Adamawa State

4.1.12 **UPPER NIGER RIVER BASIN DEVELOPMENT AUTHORITY**

4.1.12.1 **Introduction**

The Upper Niger River Basin Development Authority is a parastatal under the supervision of the Federal Ministry of Water Resources and it is fully owned by the Federal Government of Nigeria, which provides the major funds required for its operations.

The area of operation of the Authority covers Niger and Kaduna States as well as the Federal Capital Territory, Abuja. The Headquarters is located in Minna, Niger State with Area Offices in Kaduna, Wushishi and Kwali in the Federal Capital Territory (FCT) as well as Project Offices in Swashi, Suleja, Pambegua, etc.

4.1.12.2 **Vision:**

To facilitate optimal utilisation of water resources in a sustainable manner for the enhanced economic, social and rural development within the catchment areas of Upper Niger River Basin Development Authority.

4.1.12.3 **Mission:**

To pursue the objectives of harnessing, developing, conserving available land water resources in the Upper segment of Niger River Basin, with a view to improving the standard of living and quality of

life of Nigerians, particularly those in the rural areas through irrigation agronomy and animal husbandry.

4.1.12.4 **Staff Strength**

The Authority had a total staff strength of three hundred and thirty-four (334) as at 31st December 2020. This comprises two hundred and eighty-two (282) senior and fifty-two (52) junior staff.

4.1.12.5 **Promotion**

The Authority successfully conducted promotion exercise in 2020 and eighty-one (81) members of staff were promoted to the next higher level.

4.1.12.6 **Advancement**

A member of staff was advanced to the next grade level in 2020.

4.1.12.7 **Projects of the Authority**

The projects of the Upper Niger River Basin Development Authority are summarised in the table below:

S/N	PROJECT TYPE	No. OF PROJECTS IN NIGER STATE	No. OF PROJECTS IN KADUNA STATE	No. OF PROJECTS IN THE FCT	OTHER STATES
1	earthdam or weir constructed	1	3	0	1
2	earthdam or weir rehabilitated	3	0	0	0
3	irrigation infrastructure or scheme constructed	0	2	0	0
4	irrigation infrastructure or scheme rehabilitated	1	0	0	0
5	new solar boreholes constructed	24	11	15	22
6	solar boreholes rehabilitated	80	7	38	0
7	new motorised boreholes constructed	8	0	30	0
8	motorised boreholes rehabilitated	16	4	0	0
9	new hand pump boreholes constructed	25	2	0	0
10	hand pump boreholes rehabilitated	0	2	0	0
11	solar street lights constructed/installed	0	0	1	0
12	solar street lights rehabilitated	0	0	0	0
13	new access roads/bridges constructed	1	1	2	2
14	access roads and bridges rehabilitated	0	0	2	0

S/N	PROJECT TYPE	No. OF PROJECTS IN NIGER STATE	No. OF PROJECTS IN KADUNA STATE	No. OF PROJECTS IN THE FCT	OTHER STATES
15	flood and erosion control projects constructed	4	5	0	2
16	health care facilities rehabilitated	0	0	6	0
17	schools and educational centres constructed	0	0	3	0
18	supply of project vehicles	0	0	0	0
19	supply of farm equipment and machinery (tractors,etc)	9	0	0	0
20	purchase of heavy duty machines. low loader etc / trailer etc	3	0	0	0
21	supply of lab equipment	0	0	0	0
22	solar power light	1	0	0	0
23	perimeter fencing of authority's properties (phase ii)	1	0	0	0
24	safeguarding the environment and waste management	1	0	0	0
25	hydrological and irbm improvement/implementation	1	0	0	0
26	furnishing of guest houses	1	0	0	0
27	establishment of songhai model farm centre	1	0	0	1 AT KWARA
28	graduate youth empowerment	1	0	0	0
29	poverty alleviation empowerment vocational training for youth and women	1	0	0	0
30	community sporting facilities	1	0	0	0

4.1.12.8 Dam and Irrigation Projects

SN	PROJECT TITLE	SPECIFIC ACHIEVEMENTS IN 2020	REMARKS
i.	Construction of Earth Dam at Afaka Sabon Gida, Igabi LGA, Kaduna State	Land Clearing/Payment of Compensation Completed	Ongoing
ii.	Rehabilitation of Tafa Irrigation Scheme	Rehabilitation of Irrigation Infrastructure in Progress	Ongoing
iii.	Gwantu Irrigation Scheme	Compensation and Site Clearance Completed	Ongoing
iv.	Completion of Kagoro Dam and Irrigation Scheme	Payment of Compensation for Economic Trees Completed	Ongoing

SN	PROJECT TITLE	SPECIFIC ACHIEVEMENTS IN 2020	REMARKS
v.	Rehabilitation of Swashi Dam and Irrigation Project, Phase I	Construction of Additional Canals and Maintenance of Spillway in Progress	Ongoing
vi.	Lagelu/Ilegbon Dam	Site Clearance and Keytrench Completed	Ongoing
vii.	Rehabilitation of Dams/Water Supply Schemes in Katsina South Senatorial District (Musawa Dam)	Rehabilitation Works on Embankment and Spillway nearing Completion	Ongoing
viii.	Pesticides, Fertilizers and Seedlings for Irrigation Farming in Chanchaga, Paikoro, Tafa and Bosso LGAs, Niger East Senatorial District	Distribution of Seedlings to farmers in Niger East Senatorial District	Completed

4.1.12.9 Flood and Erosion Projects

S/N	PROJECT TITLE	SPECIFIC ACHIEVEMENTS IN 2020	REMARKS COMPLETED/ ONGOING
i.	Construction of Drainages for Flood and Erosion Control at Taidna and Environs	Over 50% of stone pitching achieved, Drainages and Culverts ongoing	Ongoing
ii.	Erosion Control and Earth Works on Access ANA Bridge into Kwarabe Farmlands	Construction of Erosion control structure has reached an advanced stage	Ongoing
iii.	Construction of Drainage and Erosion Control project at Kpatako In Tshonga	Construction of Erosion Control Structure Completed	Completed
iv.	Surface Dressing of Audu Lade Road	Surface Dressing of Audu Lade Road was 30% completed	Ongoing
v.	Flood/End to End Erosion Grading and Asphalt Laying of DG Road, Off Kainji Road, New Bussa, Niger State	Grading of road, construction of culverts and laying of asphalt completed	Completed
vi.	Construction of 11km Road and Drainages of Kabusa,	4.6 km out of 11 km road was Completed	Ongoing

	Tasha and Sauka Farming Communities FCT Senatorial District, FCT Abuja	under the first Phase (2020)	
vii.	Construction of 1.3km Road and Drainages at Anguwar Dodo Gwagwalada, FCT Senatorial District	Construction of 1.3 km road and drainages completed	Completed
viii.	Rehabilitation of 2km Road at Ushapa Bwari Area Council, FCT Senatorial District, FCT	2 KM Road Completed	Completed
ix.	Re-Construction of 1.5 km November Road Karu, AMAC FCT Senatorial District, FCT	Re-construction of 1.5 km Completed	Completed
x.	Completion of Asso/Gigira Bridge in Jema'a/Sanga Federal Constituency, Kaduna State	Asso/Gigira bridge Constructed	Completed
xi.	Repair/Construction of Culverts and Erosion Control at Madaka/Sabon Gari in Rafi Local Government Areas of Niger East Senatorial District	Repair/Construction of Culverts for Erosion Control Completed	Completed
xii.	Repair/Construction of Culverts and Erosion Control at Paiko/Gwan in Paikoro Local Government of Niger East Senatorial District	Repair/Construction of Culverts and Erosion Control Completed	Completed

4.1.12.10 Internally Generated Revenue in 2020

The Authority realized a total of N46,340,459.00 (Forty-Six Million, Three Hundred and forty thousand, four hundred and fifty-nine Thousand as internally generated revenue.

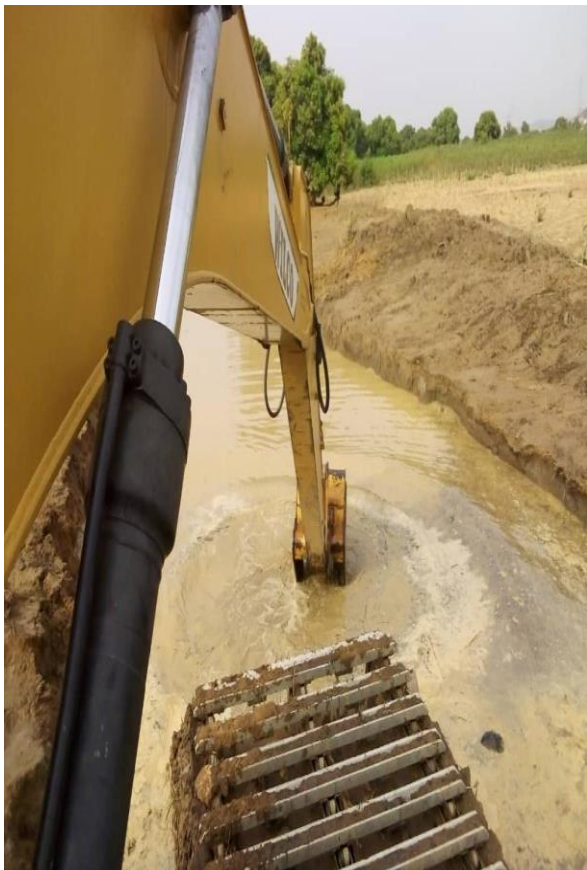
Detail breakdown was as follows:-

S/N	CODE	ITEM	2020 AMOUNT
1	12020427	Tender fees	10,000.00
2	12020801	Rent on Federal Government Quarters	198,355.00
3	12020901	Rent on Federal Government Land	18,815,100.00
4	12020711	Earnings from Commercial Activities	37,000.00
5	12020703	Earnings from Hire of Plant and Equipment	6,520,000.00
6	12020905	Lease Rental	4,144,000.00
7	12020708	Earnings from Agricultural Produce	16,614,195.00
8	1202110	Operating Surplus	1,809.00
		TOTAL	46,340,459.00





Enhancing Irrigation Potential in FCT through Land Clearing and dredging of waterways (dredging at Gada-Biyu Irrigation Project Kwali Area Council)





4.1.12.11 Borehole projects carried out in 2020

SN	PROJECT TITLE	LOCATION OF PROJECT			TYPE (SCHEME, HANDPUMP, SOLAR, MOTORISED)	NO OF BOREHOLES	STATUS (COMPLETED/ONGOING)
		COMMUNITY	LGA	STATE			
1	Maintenance of Boreholes in Niger, Kaduna and FCT	Solar Borehole: Maitozo, Ancha and Fadan Ninzo; Hand Pumps: Gantag (Kachia), Fadan Karshi and Sabon Layi (Ninzo)	Kachia/ Sanga	Kaduna	Motorized	6	Completed
2	Maintenance of Boreholes in Niger, Kaduna and FCT	Solar: Byazhin, Chibiri and Sabo	Kuje/ Bwari	FCT	Solar	3	Completed
3	Construction of 1No Motorized Borehole in Kabusa Village, AMAC, FCT	Ketti	AMAC	FCT	Solar	1	Completed
4	Construction of 1No. Solar	Idu Gbagyi	AMAC	FCT	Solar	1	Completed

SN	PROJECT TITLE	LOCATION OF PROJECT			TYPE (SCHEME, HANDPUMP, SOLAR, MOTORISED)	NO OF BOREHOLES	STATUS (COMPLETED/ONGOING)
		COMMUNITY	LGA	STATE			
	Powered Borehole in FCT						
5	Provision of 2No of Solar Powered Boreholes with 30,000 Overhead Tank in Niger South Senatorial District, Niger State	Bhc Muye and Primary School, Muye	Lapai	Niger	Solar	2	Completed
6	Improvement of Water Supply, Sanitation and Hygiene at Kwoi and Environs, Kaduna State (one solar borehole)	Burmin Bauna	Jaba	Kaduna	Solar	1	Completed
7	Provision of 2No Solar Powered Borehole at Kwaturu, Ngaki Chuang and Rinkon in Katchia LGA, Kaduna State	Angwan Goude and Kwaturu Usman	Kachia	Kaduna	Motorised	2	Completed
8	Improvement of Water Supply, Sanitation and Hygiene at Kwoi and environs, Kaduna State (one solar borehole)	Sabzuro Kwoi	Jaba	Kaduna	Motorized	1	Completed
9	Provision of 1 No Motorised Borehole at FCT Senatorial District	Mpape	Bwari	FCT	Motorised	1	Completed
10	Maintenance of Boreholes in Niger, Kaduna and FCT	Solar: UNRBDA Headquarters	Bosso	Niger	Solar	2	Completed
11	Maintenance of Boreholes in Niger, Kaduna and FCT	Motorized: Bosso Lowcost and Solar: Area Office Lapai	Bosso/P aikoro	Niger	Solar	2	Completed
12	Construction of 1No. Motorized Boreholes for Edzu and Takuti Communities in Lapai LGA, Niger State	Takunti Shamba	Lapai	Niger	Solar	1	Completed
13	Provision of 1 No Motorised Borehole at FCT	Tudun Kwaso	AMAC	FCT	Hand Pump	1	Completed

SN	PROJECT TITLE	LOCATION OF PROJECT			TYPE (SCHEME, HANDPUMP, SOLAR, MOTORISED)	NO OF BOREHOLES	STATUS (COMPLETED/ONGOING)
		COMMUNITY	LGA	STATE			
	Senatorial District						
14	Provision of Potable Water and Access Road for Ija Gbagyi Community, Tafa Local Government Area, Niger State (three solar boreholes)	Ijah Gbagyi	Tafa	Niger	Motorized	3	Completed
15	Provision of 1No. Solar Powered Borehole in Niger East Senatorial District, Niger State	Angwan Gwari Tudun Fulani	Bosso	Niger	Solar	1	Completed
16	Provision of 2No of Solar Powered Boreholes with 30,000 overhead tank in Niger East Senatorial District, Niger State	Pyata and City Gate Tudun Fulani	Magama	Niger	Solar	2	Completed
17	Provision of 22 No of Hand Pump Boreholes in Niger East Senatorial District		Niger East	FCT	Solar	22	Completed
18	Rehabilitation of Boreholes in FCT	Solar: Kekechi, Emir Palace Abaji and Chief Palace Big Sheda; Motorized: Bonugo	Abaji/Kwali	FCT	Solar	4	Completed
19	Maintenance of Boreholes in Niger, Kaduna and FCT	Solar: Sherepe and Gaba Bwari	Bwari	FCT	Solar	2	Completed
20	Rehabilitation of Boreholes in FCT	Solar: Zhigakushi (Bwari), Abaji Senior Quarters, Angwan Hausawa Kwali and Gwagwalada Central	Abaji/Kwali	FCT	Motorized	4	Completed
21	Water Supply Schemes in Magama/Rijau Federal Constituency	Auna and Sabon Gari Ushe	Magama/Rijau	Niger	Motorized	2	Completed

SN	PROJECT TITLE	LOCATION OF PROJECT			TYPE (SCHEME, HANDPUMP, SOLAR, MOTORISED)	NO OF BOREHOLES	STATUS (COMPLETED/ONGOING)
		COMMUNITY	LGA	STATE			
	(2no motorized borehole)						
22	Provision of 4no Solar Powered Boreholes in Niger East Senatorial District	Shata, Gutife, Minna and Gusoru	Niger Norh	Niger	Borehole In	4	Completed
23	Provision of 1no Solar Powered Borehole at Kwaturu, Ngaki Chuang and Rinkon in Katchia LGA, Kaduna State	Kwaturu Usman	Kachia	Kaduna	Motorized	1	Completed
24	Construction of 2No Solar Powered Borehole in Chikun LGA, Federal Constituency, Kaduna State	Gwamna Road Off Church Street Narayi	Chikun	Kaduna	Motorised	2	Completed
25	Construction of 3No Solar Powered Borehole in Chikun LGA, Federal Constituency, Kaduna State	Ungwan Matari, Ungwan Gimbiya and Ungwan Maigero	Chikun	Kaduna	Motorised	3	Completed
26	Maintenance of Boreholes in Niger, Kaduna and FCT	Solar: Tashan Daru, Gimi Tasha, Makarfi	Lere/Makarfi	Kaduna	Solar	3	Completed
27	Maintenance of Boreholes in Niger, Kaduna and FCT	Hand Pump: Mtd Police Barrack Zaria and New Hospital Road Sabon Gari	Zaria/Sabon Gari	Kaduna	Motorized	2	Completed
28	Maintenance of Boreholes in Niger, Kaduna and FCT	Solar: Hayin Masaka and Yankarfe Kwarin Ayuba	Kubau/Zaria	Kaduna	Motorized	2	Completed
29	Maintenance of Boreholes in Niger, Kaduna and FCT	Motorized: Kasuwan Barci and Solar: Bomo	Kaduna South/Soba	Kaduna	Hand Pump	2	Completed
30	Provision of 12No Solar Powered Boreholes in Katsina South Senatorial District	Funtau, Faskari, Kankara, Bakori, Dandume, Sabuwa, Danja, Matazu, Musawa,	Katsina South	Katsina	Solar	12	Completed

SN	PROJECT TITLE	LOCATION OF PROJECT			TYPE (SCHEME, HANDPUMP, SOLAR, MOTORISED)	NO OF BOREHOLES	STATUS (COMPLETED/ONGOING)
		COMMUNITY	LGA	STATE			
		Kafur, Malumfashi A and B					
31	Rehabilitation of Existing Boreholes in Selected Communities of FCT Senatorial District	Solar: Gudun Karya (Kuje) and Budupe (Bwari); Motorized: Dutse Garki Apo (AMAC), Azare and Tungan Ladan (Gwagwalada), Wumi (Kuje), Sauka Zamakusa, Bako (Kwali)	AMAC/Bwari/Kuje/Gwagwalada	FCT	Motorised	8	Completed
32	Maintenance of Boreholes in Niger, Kaduna and FCT	Solar: Angwan Eggon, Shadadi and Dafara Tasha	Kuje	FCT	Hand Pump	3	Completed
33	Maintenance of Boreholes in Niger, Kaduna and FCT	Solar: Bamishi and Dafara Junction; Motorized: Sauka	Kuje	FCT	Solar	3	Completed
34	Maintenance of Boreholes in Niger, Kaduna and FCT	Motorized: Unrbda Area Office Suleja and Hima Area; Hand Pump: Unrbda Suleja Staff Quarters	Suleja/Chanchaga	Niger	Motorized	3	Completed
35	Construction of 1No. Motorized Boreholes in Sabongari Bwari and Byazhin-Bwari, FCT	ECWA Theology Karu	Bwari	FCT	Motorized	1	Completed
36	Construction of 1No. Motorized Boreholes in Kabusa Village AMAC, FCT	Jikwoyi Phase 3	AMAC	FCT	Motorized	1	Completed
37	Provision of 2No Motorized Borehole in FCT	Apo Dutse and Unrbda Guest House Suleja	AMAC/Suleja	FCT	Motorised	2	Completed
38	Provision of Motorized Borehole in FCT	Leleyi	Kwali	FCT	Motorized	1	Completed
39	Provision of 2 No Motorised Borehole at FCT Senatorial District	Yelwan Zuba and Shadadi	AMAC	FCT	Solar	2	Completed
40	Provision of 1 No Motorised	Dafa (along the Market)	Kwali	FCT	Solar	1	Completed

SN	PROJECT TITLE	LOCATION OF PROJECT			TYPE (SCHEME, HANDPUMP, SOLAR, MOTORISED)	NO OF BOREHOLES	STATUS (COMPLETED/ONGOING)
		COMMUNITY	LGA	STATE			
	Borehole at FCT Senatorial District						
41	Maintenance of Boreholes in Niger, Kaduna and FCT	Solar: Kugbo and Nyanya; Hand Pump: Nyanya Phase 4	AMAC	FCT	Motorized	3	Completed
42	Maintenance of Boreholes in Niger, Kaduna and FCT	Solar: Magba, Sole, Agaie and Baro	Agaie/Lapai	Niger	Solar	4	Completed
43	Maintenance of Boreholes in Niger, Kaduna and FCT	Maitumbi and Rafin Yashi; Pada and Chaepa	Bosso/Lapai	Niger	Motorized	4	Completed
44	Provision of 4No Solar Powered Borehole with 3,000 Litres Overhead Tank in Katcha LGA, Niger South Senatorial District (with plastic tanks)	Katergi 1 and 2	Katcha	Niger	Solar	4	Completed
45	Provision Of 1no Motorized Borehole in FCT	Abaji	Abaji	FCT	Motorised	1	Completed
46	Construction of 1No. Motorized Boreholes in Sabongari Bwari and Byazhin-Bwari, FCT	Sama Pigba Apo	Bwari	FCT	Motorized	1	Completed
47	Water Project at Kwaturu Dura and Sabguro including Sanitation and Hygiene (2no Hand Pump Boreholes)	Rugan Fulani Katuru and Kurmin Mata	Kachia	Kaduna	Motorized	2	Completed
48	Improvement of Water Supply, Sanitation and Hygiene at Kwoi And Environs, Kaduna State (one solar borehole)	Beside General Hospital Kwoi	Jaba	Kaduna	Motorized	1	Completed
49	Provision of 1 No Motorised Borehole at FCT Senatorial District	Agyana	Abaji	FCT	Solar	1	Completed
50	Provision of 3Nos of Hand Pump Boreholes	Gbaiko Village, Gangarei Pangamu and	Suleja/S hiroro	Niger	Solar	3	Completed

SN	PROJECT TITLE	LOCATION OF PROJECT			TYPE (SCHEME, HANDPUMP, SOLAR, MOTORISED)	NO OF BOREHOLES	STATUS (COMPLETED/ONGOING)
		COMMUNITY	LGA	STATE			
	in Niger East Senatorial District	Almadina					
51	Water Supply Schemes in Agaie/Lapai Federal Constituency (rehabilitation of hand pump boreholes)	Solar: Loguma and Twachiko; Motorized: Zago, Lafarma Primary School Lapai and Wumaru; Hand Pump: Wuna Zinde, Wuna Dzukodan, Emi Baba Alfa, Waziri Primary School Agaie, Ndadade, Efu Yelwa, Eko Wuna, Nuhu Lafarma Area, Emi Likali and Mamam Zagi	Agaie/Lapai	Niger	Solar	15	Completed
52	Mini Water Scheme at Tungan Magajiya (two solar boreholes)	Upe Tungan Magajiya and Malale Ungwan Magajiya	Rijau	Niger	Motorized	2	Completed
53	Construction of 3No. Motorized Boreholes for Edzu and Takuti Communities in Lapai LGA, Niger State	Takuti, Edzu and Emirokopkan	Lapai	Niger	Motorised	3	Ongoing
54	Provision of 3No Boreholes in Selected Communities of Niger North Senatorial District, Niger State	Emir's Palace Auna, Government Primary School Auna and Malabu Tunganjika	Rijau	Niger	Solar	3	Completed
55	Provision of 1No Motorized Borehole in FCT	Karshi	AMAC	FCT	Motorised	1	Completed
56	Provision of 2 No Motorised Borehole at FCT Senatorial District	Shape Gwari and Hanyin Kabul	AMAC	FCT	Motorised	2	Completed
57	Provision of 1 No Motorised Borehole at FCT Senatorial District	Angwan Garta, Nyanya (Gbagalape) and Hayin Kabul	AMAC and Gwagwada	FCT	Motorised	3	Completed
58	Rehabilitation of Boreholes in FCT	Shere, Nyanya, Takushara and Apo Zandi	Bwari and AMAC	FCT		4	Completed

SN	PROJECT TITLE	LOCATION OF PROJECT			TYPE (SCHEME, HANDPUMP, SOLAR, MOTORISED)	NO OF BOREHOLES	STATUS (COMPLETE D/ONGOING)
		COMMUNITY	LGA	STATE			
59	Rehabilitation of Boreholes in FCT	Shetuko, Zuba (Gidan Hakimi and Emir Palace) and Gawu	Kuje, Gwagwaland and Kwali	FCT		3	Completed
60	Maintenance of Boreholes in Niger, Kaduna and FCT	Solar: Kutriko; Motorized: Taidna	Bosso and Lapai	Niger		2	Completed
61	Maintenance of Boreholes in Niger, Kaduna and FCT	Solar: Eko Badegi; Motorized: Sanchiya	Mokwa	Niger		3	Completed
62	Solar Powered Borehole at Gwazunu Modern Abatoir Suleja, Niger State	Suleja (Gwazunu Modern Abattoir)	Suleja	Niger	Solar	1	Completed
63	Construction of 1No Solar Powered Borehole in FCT	Apo Wamba	AMAC	FCT	Solar	1	Completed
64	Construction of 1No. Motorized Boreholes for Edzu and Takuti Communities in Lapai LGA, Niger State	Takuti	Lapai	Niger	Motorized	1	Completed
65	Provision of 1No Solar Powered Borehole in Niger South Senatorial District	Manko's Tomb - Mokwa (Koshaba Rabba Road)	Lavun	Niger	Solar	1	Completed
66	Provision of 2No Motorized Borehole in FCT	Kuchi Bena & Eddo Sarki	AMAC	FCT		2	Completed
67	Construction of 36nos Solar Powered Boreholes with Plastic Tank each at Lambar Tsauni, Daga, Mil-Takwas and other surrounding communities	Kwari - Jibiya Road, Kukarnabaushi, Kagadama Village, Mil Takwas, Kukaru/Maciji (1 and 2), Daga& Lambartauni (Jibiya Town)	Katsina South	Katsina	Solar	36	Ongoing (8 Done)
68	Provision of 1 No Motorised Borehole at FCT Senatorial District	Orozo	AMAC	FCT		1	Completed
69	Maintenance of Boreholes in Niger, Kaduna and FCT	Solar: Baragoni and Igu	Bwari	FCT		2	Completed

SN	PROJECT TITLE	LOCATION OF PROJECT			TYPE (SCHEME, HANDPUMP, SOLAR, MOTORISED)	NO OF BOREHOLES	STATUS (COMPLETE D/ONGOING)
		COMMUNITY	LGA	STATE			
70	Maintenance of Boreholes in Niger, Kaduna and FCT	Solar: Bwari; Motorized: Damagaza	AMAC/Bwari	FCT		2	Completed
71	Maintenance of Boreholes in Niger, Kaduna and FCT	Motorized: Mantun, Bida and Usman Zaki Palace	Katcha/Bida	Niger		3	Completed
72	Maintenance of Boreholes in Niger, Kaduna and FCT	Solar: Unrbda Hqtrs (Corpers Lodge); Hand Pump: Agaie	Bosso/Agaie	Niger		4	Completed
73	Maintenance of Boreholes in Niger, Kaduna and FCT	Solar: Allah Gaba, Mah and Kuje; Motorized: Minna	Kaduna /Kuje /Minna	Niger		4	Completed
74	Construction of 1No. Motorized Boreholes in Kabusa VillageAMAC, FCT	Kabusa	AMAC	FCT	Motorized	1	Completed
75	Construction of 1No. Motorized Boreholes in Sabongari Bwari and Byazhin-Bwari, FCT	Byazhin	Bwari	FCT	Motorized	1	Completed
76	Construction of 3No of Motorized Boreholes in Sabon-Gari, Bwari and Byzhin Bwari. FCT	Rugan Fulani, Sabon Gari Bwari and Kawu	Bwari	FCT	Motorized	3	Completed
77	Provision of 1No of Solar Powered Boreholes in FCT	Epe	Gwagwada	FCT	Solar	1	Completed
78	Provision of 1No of Solar Powered Boreholes in FCT	Kwali	Kwali	FCT	Solar	1	Completed
79	Provision of 1No of Solar Powered Boreholes in FCT	Kayarda	Kuje	FCT	Solar	1	Completed
80	Provision of 1No Motorized Boreholes in FCT	Bwari	Bwari	FCT		1	Completed
81	Rehabilitation of Existing Boreholes in Selected Communities of Niger North Senatorial	Solar: Wawa Weregi; Motorized: New Bussa (Kiifarandi, Barade Compound,	Niger North	Niger		36	Completed

SN	PROJECT TITLE	LOCATION OF PROJECT			TYPE (SCHEME, HANDPUMP, SOLAR, MOTORISED)	NO OF BOREHOLES	STATUS (COMPLETED/ONGOING)
		COMMUNITY	LGA	STATE			
	District	Army Engineer, Marriage Quarters 1 and 2, Alkali Jabbo Compound and New Bussa), Wawa Weregi, Leshigbe Road 1 and 2, Karabonde Bah Compound, Guffanti Yumu Road, Mashegu (Ibbi, Babban Rami, Likoro and Mangoro), Wushishi (Gidan Fulani & Kaliko), Lumma 2 and Karabonde; Handpumps: New Bussa (Nepa Quarters and Monday Market), Karabonde (Leshigbe Road, Market Square and Karabonde), Wawa (Sabon Gida and Ungwan Kambari), Lumma (1, 2, 3 and 4), Guffanti (Secondary School and Ungwan Gungawa) and Mariga Bangi (1 and 2)					
82	Maintenance of Boreholes in Niger, Kaduna and FCT			Kaduna		2	Yet to mobilize to site
83	Provision of 1 No Motorised Borehole at FCT Senatorial District	Karsana	AMAC	FCT		1	Completed
84	Provision of 2 No Solar Powered	Funtua and Bakori	Funtua	Katsina	Solar	2	Completed

SN	PROJECT TITLE	LOCATION OF PROJECT			TYPE (SCHEME, HANDPUMP, SOLAR, MOTORISED)	NO OF BOREHOLES	STATUS (COMPLETED/ONGOING)
		COMMUNITY	LGA	STATE			
	Boreholes in Katsina South Senatorial District						

CHAPTER 5

5.0 AGENCIES

5.1 NATIONAL WATER RESOURCES INSTITUTE

5.1.1 Introduction

The National Water Resources Institute, a Parastatal of the Federal Ministry of Water Resources was established in 1979 under Decree No. 3 of March 2nd, 1985, currently referred to as National Water Resources Institute Act, cap No. 83, Laws of the Federation of Nigeria, 2004. The Institute is headed by the Director-General.

5.1.2 Mandates

- i. Promote and Develop Training Courses in Water Resources.
- ii. Advise the Minister of Federal Ministry of Water Resources on training needs and priorities;
- iii. Perform applied research functions in all aspects of water resources development and management (i.e. flood control, river regulation, reclamation, drainage, irrigation, domestic and industrial water supply, sanitation and hygiene practice, sewage and sewerage treatment);
- iv. Perform such ancillary services on planning of water resources management and river basin development;
- v. Develop and promote the application of codes of practice in water resources development and management suitable for Nigerian conditions;

- vi. Promote the establishment and maintenance of a uniform national water resources data collection system relating to surface and subsurface water resources;
- vii. Provide for the training of the various sector stakeholders on short courses and formulate program of work in the field of water resources;
- viii. Establish and maintain a Water Resources Library, Documentation and Conference center;
- ix. Publish or sponsor publication of water resources journals;
- x. Promote cooperation in water resources development and management with similar bodies within and outside the country and with international bodies connected with water resources management and operations; and
- xi. Carry out such other activities as are necessary or expedient for the full discharge of its functions under this Act.

5.1.3 **Staff Strength**

The institute's total staff strength stood at one hundred and ninety (190) as at 31st December 2020. This was made up one hundred and one (101) teaching staff and eighty-nine (89) non-teaching staff.

5.1.4 **Promotions**

The Institute successfully carried out promotion examination in 2020. In all, a total of Seventeen (17) staff comprising sixteen (16) Senior Staff and one (1) Junior Staff were promoted.

5.1.5 **Conversion**

A member of staff was converted in 2020.

5.1.6 **Upgrading**

Seventeen (17) members of staff comprising sixteen (16) Senior and One (1) junior were upgraded during the period under focus.

5.1.7 **Resignation**

Eight (8) members of staff comprising four (4) Senior and four (4) junior staff resigned their appointments in 2020.

5.1.8 **Pension Matters:**

During the year under review, the institute has a total of sixty-one (61) retirees under the Unified Pension Scheme while the total number of retirees under the Contributory Pension Scheme was twenty-two (22).

5.1.9 **Training Activities**

As at 31st December, 2020, there were seventy-three (73) number of students undergoing regular academic training in Water Resources Engineering Technology Programmes. Twenty-Nine (29) short courses as well as induction course and the youth empowerment training programmes were also identified and scheduled in the 2020.

These courses include:

- i. Borehole Drilling and Supervision
- ii. Storage, Calibration, Operation and Maintenance of Laboratory Materials and Equipment/Instruments
- iii. Project Management
- iv. Water Treatment Chemicals Plant Dosage Determination and Management
- v. Water Treatment Process Control and Quality Management
- vi. Basic Water Treatment Operations
- vii. Water Quality Testing and Control
- viii. Billing and Collection
- ix. Plumbing Works and Service Connection
- x. Flood Risk Zone Identification and Management
- xi. Water Quality Monitoring and Laboratory Management
- xii. Management and Supervision of Water Resources Contract
- xiii. Hand Pump Installation, Operation and Maintenance
- xiv. Training Programme Management
- xv. Hygiene and Sanitation Promotion
- xvi. Hydrological Practices and Data Management
- xvii. Management Practices and Effective Leadership Training
- xviii. Wash and Climate Change Adaptation
- xix. Geophysical Investigation Techniques
- xx. Monitoring, Evaluation and Information Sharing
- xxi. Borehole Construction and Management
- xxii. Gender Sensitivity and Economic Empowerment
- xxiii. Environmental Impact Assessment
- xxiv. Community Mobilization and Management

- xxv. Water Quality Facilities Management
- xxvi. Determination of Water Quality Parameters in Water Quality Monitoring and Surveillance
- xxvii. Community Led Total Sanitation (CLTS)
- xxviii. The Induction course for new entrants into the water sector
- xxix. The Youth Empowerment Training Programmes

5.1.10.1 Other Special Training Activities in 2020

S/N	Title of Training	Number of Participants	Date
i.	Billing and Revenue Generation Management	8	21 st September – 2 nd October, 2020
ii.	Plant and Equipment Maintenance and Machine Performance Improvement Techniques	5	5 th - 16 th October, 2020.
iii.	Non-Revenue Water, Leak Detection, Data Management and Analysis	3	12 th - 23 rd October, 2020
iv.	Water Network Modeling, Pipe Network Design, Network Rationalization and Optimization, Network O&M, Pressure Management.	4	19 th – 30 th October, 2020
v.	Water Treatment Production Processes, and Optimization, Water Quality Modeling, WTP Operation and Maintenance	5	2 nd – 13 th November, 2020
vi.	Borehole Drilling and Supervision	68	12 th August, 2020
	Total Number Trained	93	

5.1.11 Youth Empowerment

S/N	Name Of Programme	Duration	Output
1.	Welding and Rig Fabrication2020	30
2.	Household Water System Managers (Plumbing)2020	32
3.	Water Well Drilling Technology2020	30

5.1.12 Entrepreneurship Education

The Institute is involved in Entrepreneurship Education. It provides entrepreneurship education to ND and HND students of the Institute with practical knowledge on applicability of entrepreneurial skills. Achievements recorded under this programme in 2020 include:

- i. advocacy/awareness creation for Commissioners of Water Resources and other stakeholders on the NWRCBNet Zonal Centre activities in South East, 21 – 23rd February,2020 at Nnamdi Azikiwe University, Awka;
- ii. advocacy/awareness creation for Commissioners of Water Resources and other stakeholders on the NWRCBNet Zonal Centre activities in South West, 19 – 21st March,2020 at Federal University of Agriculture, Abeokuta; and
- iii. development of Draft MOU for the NWRCBNet CBIs at Abuja, 27th – 30th July, 2020.

Photographs of some Training Activities in 2020



2020 Induction Course Participants at Tiga Dam Kano



Students of College of Animal Science on Excursion to NWRI Meteorological Station

5.1.13 **Summary of other Activities / Projects and Programmes carried out and the achievement recorded in year 2020**

i. Assessment of viability of irrigation schemes programme: case of AIRBDA

Specific Output/Achievements

Inception meeting with the Management of AIRBDA, Owerri

ii. Shonghai Integrated Farming System.

Specific Output/Achievements

- a. 1 NO. Snail Housing Constructed
- b. 2no.Circular Fish Ponds Housing Constructed
- c. 1no. Farmshed Housing Constructed
- d. Shonghai agricultural and water applications model domesticated in Nigeria;
- e. Stakeholders capacities build on emerging trends in agriculture and water;

- f. Capacity of Students and Participants alike enhanced through acquisition of requisite skills in Green House Construction and Utilization and Animal Production;
- g. Development of expertise NWRI on Shonghai Model Development
- h. Development demonstration and Research Irrigation scheme; Ginger, Cocoa and Coffee cultivation as a non- native crops in Benue and Plateau States.

iii. Ginger Production as a Nonnative crop in Bokkos, Plateau State and Makurdi, Benue State in Collaboration with Cocoa Research institute Ibadan and LBRBDA

Specific Output/Achievements

- a. Pilot Ginger Cultivation as a non- native crop in Benue and Plateau states
- b. Farmers acquired practical knowledge in the field of irrigation and drainage to promote the cultivation of ginger crop in under irrigation with different water regimes.

5.1.14 Information and Documentation Services

5.1.14.1 Library and Documentation Services

During the period under review, the following achievements were recorded under this programme:

- i. Addition of 59 books to the stock
- ii. Publication of Water News Bibliography
- iii. Publication of Nigerian Journal of Water Resources Vol. 6, No 1
- iv. Internet Connection Accessories procured
- v. Office Blocks connected via the Fiber Optic Cables Facility of the Institute.
- vi. Two (2) Dell Laptop Computers, four (4) Hp laptop Computers, two (2) Hp Desktop Computers, two (2) LaserJet Pro and FPM42 Printer procured.

5.1.15 Training On Drilling Technology for Chronic Kidney Disease (CKD) Prone Areas:

The Institute embarked on the project during the period and the following were achieved:

- ii Twenty (20) Drillers were trained.
- iii Capacity of participants to supervise borehole drilling enhanced.

iiii Empowerment opportunity created.

5.1.16 **Water Supply and Sanitation Activities for the year 2020**

a. Water and Wastewater Quality Analyses for Various Clients

Analyses of water samples from Boreholes, Water Board Taps, Fisheries, Poultryies, farmlands, etc. and wastewater from Vegetable Oil Industries, Refineries, etc. for various clients were carried out.

b. Industrial Attachment (IT/SIWES) Programme

Students from various Polytechnics and Universities in Nigeria were posted to the Institute for attachment period of three (3) months to a year to acquiring practical experience.

c. NWRI Students' Projects

NWRI ND and HND final year students and Staff on study outside the Institute conducted water and wastewater quality monitoring and surveillance projects using available facilities and consumables.

5.1.17 **Completion of Drinking Water Quality Assessment and Stakeholders Meeting for Validation of Reports in Benue and Katsina States**

In response to significance of access to safe water as fundamental for any developmental transformation the National Water Resources Institute (NWRI) embarked on national assessment of drinking water quality as mandated by National Council of Water Resources (NCWR) to conduct Drinking Water Quality Assessment in all the States of Nigeria including FCT, as part of its contribution to water quality data generation and protection of public health.

The outComes were as follows:

- i. obtained reliable baseline information for conduct of Drinking Water Quality Assessment in the Benue and Katsina States.
- ii. generated information from the water supply sources for quality trends in relation to aesthetic, health and objectionable problems (chemical, biological/bacteriological and sanitary risk parameters).

5.1.18 **Drought, Flood and Erosion Activities of the Institute for the Year 2020**

The Institute as part of its mandates, carried out flood causative and assessment studies on the following flood locations.

- ii Kaduna township, Kaduna State: Assessment of flood event in the four LGAs in Kaduna Metropolis
- iii FCT, Abuja: Assessment of flood in Die-Die and Gwagwalada

- iii. Erection of flood marks in River-Kaduna
- iv. Flood Assessment in Jigawa State

5.1.19 **Erosion and Flood Control Study (Farin Gida)**

During the period under focus, the following achievements were recorded on the project:

- i. topographic and area survey of the catchment carried out;
- ii. all flood or drainage route in the catchment identified;
- iii. flow capacity for each drain computed;
- iv. alternative route suggested in most cases for storm water drainage;
- v. image and contour maps printed. profile of each drain drawn; and
- vi. report produced

5.1.14 **Constituency Project on Assessment of Drinking Water in Chronic Kidney Diseases Prone Areas in Jigawa State**

The main objective of this Programme is to carry out drinking water quality assessment in chronic kidney disease prone communities of Jigawa State with a view to identify potential causes as well as recommend appropriate remediation measures to forestall the public health crises and enhance access to potable drinking water. The

Achievements recorded on the project were :

- i. prevalence and geographical distribution of chronic kidney diseases in the study area identified;
- ii. spatio-temporal variation in the levels of environmental toxins related to chronic kidney diseases in water identified and produced;
- iii. possible causes and sources related to the prevalence of chronic kidney diseases discovered;
- iv. information on Chronic Kidney Disease (CKD) among age groups and gender obtained;
- v. Health consequences of poor environmental conditions and insufficient availability of medical facilities identified;
- vi. Local and International awareness of the prevalence of chronic kidney diseases in area is ongoing; and
- vii. Project report containing specific recommendations on chronic kidney diseases problems based on data collected produced.

5.2 **NIGERIA HYDROLOGICAL SERVICES AGENCY (NIHSA)**

5.2.1 **Introduction**

The Nigeria Hydrological Services Agency is one of the Agencies of the Federal Ministry of Water Resources which was established by the NIHSA Act 2010 and signed into law by **Mr. President** on 27th August, 2010. The Act is published in the Official Gazette of the Federal Government of Nigeria No 100, Vol. 97 of 31st August, 2010. It has the statutory responsibility for water resources assessment in terms of quantity, quality, occurrence and availability in time and space.

The NIHSA, among other functions, advise the general public, policy and decision makers and the stakeholders both in Government, public and the private sectors on all aspects of hydrology, provide hydrological services in operational hydrology and water resources activities and work with other sister Agencies to issue forecasts on floods, droughts, etc.

5.2.2 **Vision**

To create a dynamic and advanced hydrological service with capabilities of facilitating and supporting the harnessing, controlling, preserving, developing and managing Nigeria's valuable water resources in a sustainable manner.

5.2.3 **Mission**

To provide information on the status and trends of the nation's water resources including its location in time and space, extent, dependability, quality and the possibilities of its utilization and control, through the provision of reliable and high quality hydrological and hydrogeological data on a continuous basis.

5.2.4 **Structure and Functions of the Agency**

Nigeria Hydrological Services Agency's primary function is to provide data/information on the locations of water resources in time and space, their extent, dependability, quality and the possibilities of their utilization and control on a continuous basis.

Such information is provided through the following activities:

- i. Assessment of Water resources both surface and groundwater
- ii. Providing information for planning, design and operation of water projects and other facilities or non-water projects consuming water
- iii. Monitoring the impact of non-water sector activities on water resources

- iv. Providing security for life and property against water related hazards such as floods and drought, through forecasting and related activities
- v. Providing information and management of trans-boundary water bodies
- vi. Operation and maintenance of hydrological stations nation-wide for gauging of surface water points.
- vii. Groundwater exploration and monitoring
- viii. Special Investigation and Information Dissemination.

5.2.5 **Administrative Structure**

There are six (6) Departments in the Agency, five (5) Technical Departments and one (1) Department for General Services. Each of the Departments operates under the leadership of a Director and the Departments are further sub-divided into Divisions and Units for effective discharge of their responsibilities. There are various Units such as Legal, Audit, Procurement, SERVICOM, Press and Anti-corruption that function directly under the office of the Director-General.

Also, there are Eight (8) Area Offices with two (2) Field Offices each fashioned, according to the eight (8) Natural Drainage Basins (Hydrological Areas) of the country.

The Eight (8) area offices and their two (2) Field Offices are as follows

HYDROLOGICAL AREA	AREA OFFICES	FIELD OFFICES
Hydrological Area 1 Niger – North	Sokoto	<ul style="list-style-type: none"> ▪ Katsina ▪ Birnin Kebbi
Hydrological Area 2 Niger – Central	Kaduna	<ul style="list-style-type: none"> ▪ Ilorin ▪ Minna
Hydrological Area 3 Upper Benue	Yola	<ul style="list-style-type: none"> ▪ Bauchi ▪ Gombe
Hydrological Area 4 Lower Benue	Makurdi	<ul style="list-style-type: none"> ▪ Lafia ▪ Wukari
Hydrological Area 5 Niger South	Port-Harcourt	<ul style="list-style-type: none"> ▪ Asaba ▪ Yenegoa
Hydrological Area 6 West Littoral	Ibadan	<ul style="list-style-type: none"> ▪ Benin ▪ Akure
Hydrological Area 7 East Littoral	Enugu	<ul style="list-style-type: none"> ▪ Calabar ▪ Owerri
Hydrological Area 8 Chad Basin	Maiduguri	<ul style="list-style-type: none"> ▪ Kano ▪ Damaturu

5.2.6 **Staff Strength**

The Agency total staff strength as at 31st December, 2020 stood at two hundred and forty-one (240) made up of one hundred and fifty-one (150) males and ninety (90) females.

5.2.7 **Promotion:**

During the year under review, the Agency promoted eighteen (18) members of staff. This was made of sixteen (16) senior and two (2) junior staff.

5.2.8 **Discipline:**

The Agency held a Disciplinary Committee meeting in 2020 and a member of staff who was found to have erred was punished by the Committee.

5.2.9 **Abscondment:**

A member of staff absconded from his duty post in 2020.

5.2.10 **Conversion:**

A member of staff converted from one cadre to another in 2020.

5.2.11 **Death:**

The Agency lost one of its staff in 2020.

5.2.12 **Board Matters:**

The Board met twice during the period under focus to deliberate on wide range of issues bordering on overlooking the projects and programmes being implemented including upscaling the various activities handled by NIHSA for efficient and effective service delivery as well as approval of 2020 promotion and conversion.

5.2.13 **Projects and Programmes Executed by NIHSA in 2020 and the moderate achievements recorded**

5.2.13.1 **Discharge Measurement on Rivers Niger and Benue and their Tributaries:**

Discharge Measurement were carried out at critical locations on River Niger and Benue and their tributaries. Real time flow data were collected for developing/upgrading of rating curves for flood forecasting and water management resources.

5.2.13.2 **Establishment and Equipping of Hydrological Modelling Centre:**

Training of staff on the operation and management of the equipment was carried out.

5.2.13.3 **Nationwide Sediment Transport Studies:**

Sediment Transport Studies were carried out during the period under review to provide information on siltation of reservoir, rivers, streams for:

- i. Mitigation of hydrological hazards such as flood.
- ii. Better designs of hydraulic structures.
- iii. Design and construction of soil conservation.
- iv. Watershed Management.
- v. Water Supply and Irrigation Structures.
- vi. Drainage Basin Planning and development.

5.2.13.4 **Inventory and Assessment of Hydrological Station Across the Country:**

During the period of this report, the Agency was able to assess its hydrological stations that have been vandalized by human activities or washed away by flood and in some cases by erosion as a result of changes in river channels.

The Agency took the inventory of the affected stations and rehabilitated the vandalized ones while ones that were washed away as a result of flood or erosion were re-established and instrumented.

5.2.13.5 **Assessment, Sampling Campaign and Analysis of Water Samples and Interpretation of Hydrochemical/Isotopic Data in the Iullemeden Basin:**

20 Nos. samples for tritium and 40 Nos. stable samples were sent to Egyptian Nuclear and Radiological Regulatory Authority, Central Laboratory for Environment Isotope Hydrology (ENRRA), Cairo, Egypt for Isotope analyses while 40 Nos. samples for hydrochemical analyses were sent to Centre for Energy Research and Training (CERT), Zaria.

5.2.13.6 **Adding the Groundwater Dimension to the Understanding of Shared Water Resources of the Sahel Region (RAF 7019):**

The field activities for 2020 were successfully completed with samples collected from rivers, boreholes, dugwells and were sent to Vienna, Austria for C13/C14 and N15 analyses under the International Atomic Energy (IAEA) Technical Cooperation (TC) – RAF 7019.

5.2.13.7 **Rehabilitation, Maintenance of Tubewells and Data Retrieval:**

Progress made on the project in 2020 was rehabilitation of tubewell and data retrieval in Bunza, Kamba, Kiangiwa, Gulma, Kebbi State; Marnoma, Tureta, Udus 1 & 2, Rabah 1 & 2, Sokoto State.

5.2.13.8 Establishment of a Centre on Assessment Sampling and Analysis of Water Samples and Interpretation of Hydrochemical/Isotopic Data in the Headquarters:

Progress made on the project in 2020 was the installation of Atomic Absorption Spectro-Photometer (AAS) and other components at NIHSA Laboratory, Headquarters, Abuja was still on-going.

5.2.13.9 Hydrogeochemical Investigations of Fluoride and Saline Water Contamination in Groundwater in the Upper Benue Trough, Adamawa State:

Sixty (60) Nos. of water sample analyzed and results obtained during the period.

5.2.13.10 Preliminary Hydrogeophysical Investigation of Keta Basin (Lagos Mainland):

- i. Thirty (30) Nos. hydrogeophysics were carried out to determine the depth to basement in the Lagos Mainland axis of the basin.
- ii. Thirty (30) Nos. Water samples were collected to determine the quality and saline water intrusion with Lagos Mainland Axis of the Basin.
- iii. Suitable areas for drilling productive boreholes were identified.

5.2.13.11 Rehabilitation of Existing Manual Staff Gauge Stations:

Twenty-five (25) Manual Staff gauges were rehabilitated and restored to functional status to boost accurate data collection.

5.2.13.12 Groundwater Investigation and drilling Techniques:

Forty (40) Nos. of hydro-geophysical survey were carried out within the Gwandu formation of Sokoto Basin to determine the flow direction, aquifer unit, overburden thickness of the formation from place to place, discharge zones and suitable area for drilling of productive boreholes were all identified in Kebbi State.

5.2.13.13 Other Projects Executed in 2020

S/ N	Project Or Programme Title	Project Description	Percentage Level Of Completion As At December 2020	Specific Achievement In 2020

S/ N	Project Or Programme Title	Project Description	Percentage Level Of Completion As At December 2020	Specific Achievement In 2020
1	Flood Vulnerability/ Hydrogeological Mapping	Collection of baseline data for flood vulnerability/hydrogeological mapping.	70%	Baseline data was collected for development and production of flood vulnerability/hydrogeological maps in ha vi
2	Payment of Gauge Readers	Payment of Gauge Readers	100%	Gauge Readers who manned the stations were paid allowances for continuous data collection
3	Annual Flood Outlook (Afo) Prediction	To issue yearly forecasts for flood management geared towards flood disaster reduction and to improve socio-economic development of the citizens	100%	production and public presentation of 2020 afo to general public and stakeholders
4	Annual Flood Outlook (Afo) Sensitization Field Visit Across The Eight (8) Hydrological Areas	To improve the knowledge of stakeholders and create awareness to increase the knowledge of people on flood disaster prevention and reduction measures to avoid loss of life and properties for improved socioeconomic activities	100%	Virtual workshops on annual flood sensitization were carried out in hai, ii, v, vi & vii
5	Outdoor Flood Alert (Siren) System	Outdoor warning/flood alert siren system is designed to inform the public of any impending danger act accordingly to mitigate or avoid it.	100%	Procurement and installation of 1 nos. of outdoor flood alert system in makurdi.
6	Upgrading Of Nihsa Hydrometrological/Hydrogeological	The purpose of collecting available meteorological and hydrological data is for integration into	100%	Hydrometeorological data collection & management in HAs i, ii, iii & viii.

S/ N	Project Or Programme Title	Project Description	Percentage Level Of Completion As At December 2020	Specific Achievement In 2020
	Database Management System (Erp/Edms/Ddms) Web Application (Coordination And Upgrading)	the cloud database management system		NIHSA website re-engineering. (NIHSA.gov.ng)
7	Publication Of Scientific Bulletin/Yearbook/Periodic Information Bulletin	Provision of information for improved water resources development and management.	100%	Production and printing of periodic information bulletin (flood & drought Monitor).
8	Procurement And Installation Of Automatic Weather Observation Stations (Awos) Upgraded With Telemetric System	The main objective of the data retrieval project is primarily to download accumulated data from the Awos established at specific locations in the country for processing and storage.	100%	Procurement and installation of 1 Nos. Awos
9	Special Catchment Areas Studies And Data Retrieval From The Existing Automatic Weather Observation Stations	Quality data for hydrological modelling stimulation, forecasting and research purposes	100%	Availability of historical hydro metrological data
10	Study Of Water Resources Of Fct	The project is targeted at providing comprehensive information of the Quality and quantity of water resources in the FCT for efficient and sustainable management of water	100%	Assessment of surface and groundwater resources in the FCT.

S/ N	Project Or Programme Title	Project Description	Percentage Level Of Completion As At December 2020	Specific Achievement In 2020
		resources.		
11	Monitoring And Evaluation	Monitoring and evaluation	100%	Monitoring and evaluation of capital project
12	Drilling And Instrumentation Of 1no. Tubewell Equipped With Orpheus Mini Data Logger	Addressing water scarcity through geophysical mapping of sedimentary and basement aquifers for delineation of prospective areas for borehole drilling, dam site investigation and basement mapping nationwide.		One no. tubewell drilled (@25m) and instrumented (to 23m) in Bidawa, Zang, Katsina State.
13	Operational Hydrology Programme/World Meteorological Organisation Programme/Unesco-Ihp Programmes	Attendance and participation at the general and regional working session on hydrology at the world meteorological organization meetings/attendance and participation at unesco-ihp meetings.		Formulation of nigerian interest in wmo & unesco activities
14	Borehole Data Inventory	The project is aimed at having proper documentation of borehole data for planning of water schemes.	100%	Inventory of boreholes in Jigawa, State
15	Drilling And Instrumentation Of Deep Exploratory Boreholes	Assessment of trend and magnitude of seasonal and groundwater level fluctuation in the basins.	100%	Procured two nos of loggers
16	Strengthening Of The Headquarters And 8 Area Offices Across The Country.	Strengthening of the headquarters and eight (8) area offices across the country	75%	1. Digitization of record system registry 2. repair of offices for conducive working environment

S/ N	Project Or Programme Title	Project Description	Percentage Level Of Completion As At December 2020	Specific Achievement In 2020
17	Solar Panel, Borehole Drilling With Overhead Tank In Various Parts Of Country.	Solar panel, borehole drilling with overhead tank		Drilling of five (5) nos. of solar powered boreholes for water supply in jigawa state and 2no boreholes in Anambra And Abia States Respectively (Constituency Projects)
18	Internal Audit Inspection Of Projects And Account Activities	Internal Audit Inspection Of Projects And Account Activities	70%	Audit Inspection Of 2020 Capital Project Was Carried Out.
19	Upgrading Of Geographical Information System (Gis)/ Procurement Of Hardwares And Sofwares For Data Processing And Analysis.	Provision of data/information for flood forecasting, hydropower generation, dams, roads construction And Research Purposes.	100%	1. Supply of one (1no.) hp plotter/consumable s. 2. training workshop autocad 3. training workshop on application of satellite imageries to water resources and flood management 4. flood data collection, collation and production of 2020 flood occurrence map.
20	Delineation Of Saline And Fluoride Water Prone Areas Of The Country	To study the extent of salt water intrusion incidences along the country's coast to prevent further intrusion.	100%	Saline prone area of Lagos was fully delineated in the studies
21	Rehabilitation And Data Retrieval From Monitoring Boreholes Nationwide.	For improved water budgeting and conjunctive use of groundwater for domestic, agricultural, industrial and energy purposes.	100%	Boreholes were rehabilitated water level retrieval from accordingly

S/ N	Project Or Programme Title	Project Description	Percentage Level Of Completion As At December 2020	Specific Achievement In 2020
22	Institutional Strengthening Of Gender, Anti – Corruption And Servicom Activities	Institutional Strengthening of Gender, Anti – Corruption and Servicom Activities	100%	Covid – 19 prevention material 1. anti bacterial hand wash 2. gallons of sanitizers 3. face masks 4. installation of automated water tap for washing of hands 5. provision of First Aid
23	Procurement And Installation Of Data Collection Platforms (Dcps)	To Increase The Density Of Telemetric And Automated Hydrodrological monitoring stations in the country for real-time data collection and flood forecasting.	100%	Three (3) Numbers Of Dcps Were Procured And Installed. This Has Increase the total number of telemetric stations to thirty-three (33)
24	Drilling And Instrumentation Of Monitoring Borehole (150m)	Drilling and instrumentation of monitoring borehole	100%	One no. borehole drilled and instrumented for data collection
25	Operation And Maintenance Of Data Collection Platforms (DCPs) Installed Under The Regional Assisted Niger Basin Authority (NBA) - Hycos	To carry out both software and hardware maintenance/repairs of the dcp equipment for reliable and timely hydrological (stage) data recording and transmission	100%	Ten (10) DCPs stations were restored to a functional status for real time data collection and flow monitoring in the River Niger Basin in Nigeria



Data Retrieval Process in Amasiri, Afripko North, Ebonyi State



Installation of Atomic Absorption Spectrophotometer (AAS) and other components at NIHSA Laboratory, Headquarters Abuja



Taking water sample for Adding the groundwater dimension (RAF 7019) at Bakura, Zamfara state and Carrying out Flouride studies in Fufore, Adamawa state



NIHSA staff collaborated with UBRBDA Hydrology Unit staff in carrying out Discharge Measurement within their jurisdiction.

5.2.13.14 **General Achievements**

- i. NBA–LCBC was drilling additional 13 Borehole to improve the network density
- ii. of Groundwater Monitoring Boreholes
- iii. Drilling of five (5) Nos. of Solar Powered Boreholes for water supply in Jigawa State and 2no Boreholes in Anambra and Abia States respectively (Constituency projects)
- iv. Collaborated with Action Against Hunger (AAH – An International/Non Governmental Organization) on the project “Integrated Groundwater Sustenance in North East Nigeria which yielded donation of 5 no Monitoring wells and three (3) nos Automatic Weather Observation Stations (AWOS) in the North East.

5.2.13.15 **Way Forward/Future Direction of the Agency**

- i. Timely and adequate release of fund because most of the projects are time-bound.
- ii. Manpower development and capacity building.
- iii. Develop a robust hydrological databank
- iv. More boreholes to be drilled and instrumented
- v. Enhanced budgetary allocation to the project
- vi. Expand the density of hydrological network stations to the minimum standard of 482 stations for the Country recommended by World Meteorological Organization (WMO)
- vii. Procurement/building of Permanent Office Structure for the Agency.

5.3 **NIGERIA INTEGRATED WATER RESOURCES MANAGEMENT COMMISSION**

5.3.1 **Introduction:**

The Nigeria Integrated Water Resources Management Commission (NIWRMC) was established in May, 2007 under the supervision of the Federal Ministry of Water Resources. It is a regulatory body charged with the responsibility for implementing integrated water resources management of transboundary river systems. In specific terms, the NIWRMC is to regulate and control the rights to develop and use water resources shared by more than one state for greater economic efficiency, social equity and sustainability.

5.3.2 **Vision Statement**

“To be a world class water resources regulatory agency in Nigeria, delivering sufficient quantity and quality of water, for all uses and users”.

5.3.3 **Mission Statement**

“To provide socially equitable, environmentally sustainable, as well as effective and economically efficient regulation of Nigeria’s Water Resources”.

5.3.4 **Structure and functions of the Nigeria Integrated Water Resources Management Commission**

The Commission has the following functions key among which are:

- i. Implement regulatory policies on activities relating to the development of water resources in Nigeria;
- ii. be responsible for economic and technical regulation of all aspects of water resources exploitation and provision (construction, operation, maintenance and tariffs) of public and private water resources infrastructure;
- iii. Ensure the safety and quality of Water Resources development and public water services by regulating standards for execution and performance.
- iv. Liaise with relevant agencies to conduct studies and surveys for the purpose of establishing water resources balance and catchments management plan and water efficiency strategies.
- v. Interact and consult with approved local and international organizations engaged in Integrated Water Resources Management and liaise with other relevant Agencies to determine Nigeria's input into the setting of international technical standards for Water Resources development within the provisions of this Act;

- vi. effectively monitor and evaluate water sector programmes and advise the Minister on the entire Nigerian Water Resources sector including lending, foreign technical assistance and portfolios;
- vii. Promote competition in the public water services provision;
- viii. Protect suppliers of public water resources services or facilities under this Act from unfair practices of other Water Resources developers or service providers which are damaging to competition;
- ix. facilitate the entry into the market by persons wishing to supply water services and facilities;
- x. Protect licensees from misuse of market power by other developers and service providers;
- xi. Arbitrate disputes between all stakeholders especially the licensees and other participants in the Water Resources sector;
- xii. receive and investigate complaints from licensees, developers, consumers and other persons in the Water Resources sector;
- xiii. liaise with relevant national and international agencies and advise the Minister on ways of promoting cooperation for effective and equitable management of trans-boundary waters (Niger Basin Authority, Lake Chad Basin Commission, Niger-Nigeria Joint Commission, Cameroon-Nigeria Joint Commission and such other agencies within the Water Resources sector);
- xiv. in collaboration with other relevant agencies monitor and advise the Minister on International Treaties, Obligations, Conventions, on Water resources development and management and take necessary measures to facilitate their domestication into national Statues by the relevant authorities;
- xv. in collaboration with other relevant agencies advise the Minister on bilateral and multilateral memoranda of understanding (MOU) and agreements with other countries and external agencies on water resources exploitation and management;
- xvi. Be responsible for the protection of public interest by ensuring that the provisions of this Act are carried out with due regard to public interest;
- xvii. Protect consumers from unfair practices of licensees and other persons in the supply of Water Resources services and facilities;
- xviii. Develop performance indices in relation to the quality of Water Resources services and facilities supplied to consumers having regard to international best practices performance indicators and Nigerian conditions;

- xix. monitor and report to the Minister charges paid by consumers, the performance of licensees and other persons in meeting the standards developed under paragraph (n) of this section;
- xx. Issue water resources licenses in accordance with the provisions of this Act;
- xxi. Monitor the conduct of holders of the licenses and to enforce the conditions /included in the licenses;
- xxii. Receive financial and technical aid from international organizations and nongovernmental agencies for the purpose of proper regulation of water resources in Nigeria;
- xxiii. Facilitate technical assistance in all aspects of Integrated Water Resources Management; and
- xxiv. Perform such other functions which in the opinion of the Commission are required for the purpose of achieving its objectives under this Act including any of the functions of the Minister as contained in the Water Act, which the Minister may delegate to it from time to time.

5.3.5 **Commission's Staff Disposition as at December 2020**

The Commission had total staff strength of One Hundred and Twenty-three (123) as at 31st December, 2020. This was made up of eighty-nine (89) males and thirty - four (34) females.

5.3.6 **Structure:**

The Commission was structured into the Executive Director's Office and Six Departments and Units. The Departments are as follows:-

- i. Catchments Management and Water Utilization Department
- ii. Allocation & Authorization Department
- iii. Monitoring & Enforcement Department
- iv. Corporate Support Services Department
- v. Finance and Administration Department
- vi. Human Resources Department.

5.3.7 **The 8 Catchment Offices**

The 8 Catchments Management Offices will facilitate entering into by the agreement (Memorandum of Understanding (MOU) and Water Charters) by governments within the hydrological boundaries of their basins. The Basin Agreement/Water Charter which would be the main working documents of the Commission at catchments level would be

signed by the governments of the Federation, the riparian States in the Basin and could be revised from time to time to reflect changing circumstances.

The purpose of the Agreements shall be to promote and co-ordinate effective planning and management for the equitable, efficient and sustainable use of the water, land and other environmental resources of their basins. They would reflect partner governments' commitment to integrated water resources management, covering the watersheds of the river basin.

HA	Hydrological Area (Catchments)	Partner States	Location of CMO
1	Niger-North	Katsina, Kebbi, Sokoto, Zamfara and part of Niger	Gusau, Zamfara State
2	Niger Central	Niger, Kwara, Kaduna, Kogi, Abuja FCT	Minna, Niger State
3	Upper Benue	Adamawa, Taraba, Gombe, Bauchi and part of Borno	Gombe, Gombe State
4	Lower Benue	Plateau, Nassarawa, Benue and Kogi	Lafia, Nasarawa State
5	Niger South	Bayelsa, Delta, Kogi, Anambra, Rivers and part of Edo	Asaba, Delta State
6	Western Littoral	Oyo, Ogun, Osun, Ekiti, Ondo, Lagos and Edo	Osogbo, Osun State
7	Eastern Littoral	Imo, Enugu, Ebonyi, Cross River, Akwa Ibom, Rivers Abia	Abakaliki, Ebonyi State
8	Lake Chad	Kano, Jigawa, Yobe, Borno, Bauchi and Plateau	Dutse, Jigawa State

5.3.8 Projects/Programmes Executed by the Commission in 2020

S/N	Project Title	Project Location	Percentage Level Of Completion As At December 2020	Specific Achievements In 2020	Remarks
1	Review and Update of Water Billing System for Effective Revenue Generation (Surface & Underground)	FCT	100.00	Significant Increase in IGR	
2	Audit Monitoring	All Zones	100.00	Effective monitoring of account records	

3	Monitoring and Evaluation	All Zones	-		
4	Procurement Due Process	FCT	100.00	Effective procurement processes	
5	Completion of Upper Benue Catchment Office, Gombe.	Gombe	-		
6	Consultancy for the Development of Framework for Water Allocation Plan of Lake Chad Catchment Area	Kano, Jigawa, Yobe, Borno, Bauchi and Plateau	100.00	Efficient water allocation in the Catchment Area	Obtained "No Objection" from BPP
7	Review of Water Licenses Terms and Conditions and the Involvement of State Water Regulations	FCT	100.00	Improvement in Water use guidelines	
8	Payment of Outstanding Liabilities	FCT	100.00	30% of the debt was settled	
9	Marketing, Advocacy, Networking and Annual Progress Report	All Zones	100.00	Effective communication on water use regulation	
10	Development of National Water Source Protection Policy Framework	All Zones	100.00	Legal framework on Water source protection developed	
11	Consultancy Services for Guidelines on Technical Assessment for Environmental and Safety Performance of Major Dams in Nigeria	All Zones	100	Effective data gathering on major dams in Nigeria for the purpose of water use regulation	Obtained "No Objection" from BPP

12	Field Investigation/Technical Site Assessment for Administration of Water Use Licence	All Zones	100	Enforce compliance on water users	
13	Water Resources Regulations and Coordination in Catchment Offices	All Zones	100	Water use coordination enhanced in the Catchment Areas	
14	Development of Business Framework and Strategy for the Commission	FCT	100	Build up well articulated business strategy for the Commission	Obtained "No Objection" from BPP
15	Design and Implementation of Website and Application Portal	FCT			
16	Project for the Development of National Water Footprint	All Zones	100	Reliable water pricing update for water users developed	
17	Monitoring and Enforcement for Compliance in the Implementation of Water Use Regulation (Nation Wide)	All Zones	100	Water use implementation guidelines developed in the Country	
18	Collaborative Programme with NTCWR/NCWR, ADB,GWP-N,JICA, EU, WB, Newmap, Ecowas Water for International Best Practices on Integrated Water Resources Management(IWRM)	FCT	100	Effective collaboration with the Stakeholders in the water sector both locally and internationally	

19	Consultancy Services for Catchment Management Plan (Cmp) for Niger Central Catchment	Niger, Kwara, Kaduna, Kogi, Abuja FCT	100	Effective CMP in the Niger Central Catchment	Obtained "No Objection" from BPP
20	Purchase of Utility Vehicles	FCT	-		
21	Capacity Building on Application of Remote Sensing/GIS in Compliance Monitoring on Water Use	FCT	100-	Staff skills properly enhanced	Obtained "No Objection" from BPP
22	TOTAL		100	-	

Photographs of the Projects / Programmes



One Day interactive session with the Senate Committee on Finance



Executive Director / CEO in a maiden Town Hall meeting with Management and Staff of NIWRMC



The strategic Action Plan 2020 – 2024” was presented to the Honourable Minister of Water Resources



Courtesy Visit to the Honourable Chairman Federal Civil Service Commission Dr. Tukur Ingawa



- ***Challawa Hydro & Energy Company Limited (Challawa Hydroelectric Power Plant), Kano State on 10th August 2020.***



Visit to TIGA Dam in Kano on 11th August 2020.



- ***Manomi Support Services Limited, Demsa LGA, Adamawa State***
- ***Pacific Energy Company Limited, operator of thermal electricity plant, AjebandeleIpaye, Odigbo LGA, Ondo State.***
- ***Nestle Nigeria PLC, Nestle Factory, Abaji, FCT***



Collaboration with Stakeholders

- T.** Visit to Association of Water Well Driller and Rig Owners Practitioner (AWDROP) office in Abuja



- U.** Group photograph of Executive Director/ CEO with the Borehole Drillers Association of Nigeria(BODAN) during their courtesy visit on the ED/ CEO NIWRMC.



- W.** Visitation to the Voice of Nigeria (VON)



Visit to Voice of Nigeria (VON) Picture (L – R) Engr. Magashi Umar Bashir FNAH, COMEG(REGTD), ED/ CEO NIWRMC and Mr. OsitaOkechukwu, DG Voice of Nigeria.

X. Visitation to the News Agency of Nigeria (NAN)



The Ag. Managing Director News Agency of Nigeria (NAN) Alhaji Biola Lawal (R) and The Executive Director/ CEO (NIWRMC) (L) during a Courtesy visit to NAN by the ED/ CEO NIWRMC.

5.3.9 General Achievements of the Commission in year 2020

- i. Visit to Senate Committee On Finance – 13th February, 2020:

- ii. Town Hall Meeting – 19TH FEB. 2020 during which the staff freely expressed their minds about the happening within the Commission.
- iii. Presentation of 4-Year Strategic Action Plan 2020 – 2024 – 17th March, 2020
- iv. Visit to VON – 19TH MAR., 2020
An official visit was paid to Voice of Nigeria with the intention of entering into partnership with them and some other organizations and professional associations. This action would assist the commission in meeting up with her mandate.
- v. Visit to Human Rights Radio – 1ST JUL., 2020. The aim of the visit was also to enter into partnership for easy dissemination of the mandate of the Commission.
- vi. One Day validation meeting of the United Nations 2020 reporting on sustainable Development Goal indicator 6:5:1 Degree of implementation of Integrated Water Resources Management (IWRM) in Nigeria held on 28th July 2020.
- vii. Visit to Kano Hydro Energy Development Company (KHEDCO) on 10th August 2020
- viii. Visit to Challawa, Kano on 10th August 2020.
- ix. Visit to TIGA Dam in Kano on 11th August 2020.
- x. Inauguration of NIWRMC Anti-Corruption and Transparency Unit on 14th August 2020.
- xi. Honourable Ministers joint meeting on Alleged Water contamination in Kutasa Community on 18th August 2020
- xii. Management meeting with the Honourable Minister on Water Use License on 20th August 2020
- xiii. National Water Resources Council on 30th Nov, to 4th Dec. 2020
- xiv. Waiver for the regularization of 40 staff was approved by the Chairman of the Federal Civil Services Commission towards the end of December, 2020.

5.3.10 **Way Forward / Future of the Commission**

- i. The passage of the National Water Resources Bill with the National Assembly. It is hoped that the 9th Assembly would be able to pass the Bill.

- ii. Acquire a befitting headquarter. Already some properties had been identified and the Commission prayed that one of such property will be allocated to serve as the Commission's Headquarter.
- iii. Beef up the Catchment Offices in eight locations to perform more effectively the role they were created to perform.
- iv. Recruitment of more professional personnel to handle delicate issues connected to regulations in the water sector.
- v. Acquisition of more Monitoring and Project Vehicles, Modern Technology which would include Digitalized Monitoring Equipment.

CHAPTER 6

6.0 CONCLUSION

The 2020 Annual Report Chronicled the giant strides recorded by the Ministry and its agencies during the year superintended by our visionary Honourable Minister of Water Resources, Engr. Suleiman H. Adamu, FNSE. FAEng towards ensuring sustainable access to safe drinking water, improved sanitation and hygiene practices, as well as attaining open defecation free status by 2025 including increase agricultural production to guarantee lasting food security.

The 2020 Annual Report identified funding gap as one of the militating factors affecting smooth execution of projects and programmes in the sector and emphasized the need to put in place a robust legal and regulatory framework to leverage on private sector financing to implement critical water infrastructure in Nigeria.