

## CY 2024 Projects and Programs Accomplishment Report

### I. INTRODUCTION

The Plaridel Water District (PLAWD) is a Government-Owned and Controlled Corporation (GOCC) regulated by the Local Water Utilities Administration (LWUA). It was created on September 26, 1986 pursuant to PD 198 as amended – ‘The Water Utilities Act and Other Related Issuances’. The PLAWD is tasked to supply potable water, manage, operate, maintain and improve the water supply system of the Municipality of Plaridel.

Since CY 2019, the PLAWD is under the intervention of the Local Water Utilities Administration (LWUA) which assume the powers of the management and implement all actions necessary for the District to operate efficiently. Under the intervention, an Interim General Manager is appointed by LWUA who is granted the full authority of the general manager of the District. The current Interim General Manager appointed by LWUA is Engr. Mario G. Macatangay. During the intervention in CY 2019, the LWUA identified several gaps which deprived residents in several barangays of the adequate supply of potable water and other essential services (e.g. septage desludging, water rationing during water interruptions, the lack of competent personnel especially at the Management level). In the same year, PLAWD availed funding from the Asian Development Bank (ADB) through the LWUA’s Water District Development Sector Project (WDSP) to improve the water supply system of Plaridel. By CY 2020, procurement of the 4 WDDSP components (project packages) were identified and approved by the LWUA, including:

- Package 1: Design and construction for the Improvement of the Plaridel Water Supply System which includes pipelaying of major transmission and distribution lines, provision of power back-up generators for existing PLAWD pump stations and the design and construction of the Rueda Ground Reservoir;
- Package 2: Construction of PLAWD administration building, warehouse and motor pool (Cancelled - It shall be replaced with the Procurement of Materials for the 10-Year CAPEX Program of PLAWD);
- Package 3: Construction of the Banga 1<sup>st</sup> Ground Reservoir with booster pump system and pump housing facilities with provision for power back-up generators; and
- Package 4: Procurement of vehicles.

PLAWD faced several challenges since CY 2020. The onset of the COVID-19 pandemic which affected all economies around the globe was felt also in the government, commercial, contractors and suppliers of goods in the Philippines. Likewise, ‘the institutional issues’ faced by LWUA in CY 2022 to CY 2023 which affects the disbursements of ADB project funds to Plaridel and other recipient water districts across the country can still be felt to date.

These major and other minor challenges including the ‘Right-of-Way’ issues with the DPWH, design and construction considerations for major projects, financial constraints experienced by contractors, low water rates, securing of national government permits and clearances, affected the timely completion of the WDDSP Projects. As of December 2024, the WDDSP Project Package 1 which was awarded in July 2021 to M.E. Sicat Construction Corp., is still 63% completed while the WDDSP Project Package 3 which was awarded in May 2022 to C.G. Integra Corporation is 42% completed. Two vehicles under WDDSP Project Package 4, which also serves as PLAWD’s equity to the ADB loan, was already procured by PLAWD. As a result of several failed biddings and time constraints due to the upcoming terminal date of the WDDSP on June 2025, the PLAWD Board of Directors and the Management decided to cancel the WDDSP Project Package 2 and to resort instead to the procurement of goods (pipes, fittings, and appurtenances) to be used for the 10-Year CAPEX Program of PLAWD where mostly are pipelaying projects since there is still many areas in Plaridel which are still not covered yet by the PLAWD water supply network including the lack of parallel lines at the other side of the road to minimize new water service lines from crossing roads.

After the LWUA’s release of the accumulated WDDSP progress billing payments on December 2023, the PLAWD was able to continue and implement its target programs and projects for CY 2024. Due to the pending warranty of the recently-completed Apitong and Acacia Road concreting project of the DPWH in Brgy. Bulihan, the Apitong and Acacia Pipelaying Projects of PLAWD were deferred. The budget for these 2 projects were realigned instead to the Bintog-San Jose-Culianin Dike Road Pipelaying Project to prioritize the improvement of the water supply along the Dike Road and to prepare the area for the upcoming transfer to PLAWD of the 1,288 concessionaires of the Bustos Water District residing in Brgys. Culianin and San Jose. However, the Project’s public bidding failed and was downgraded into a smaller project component which is the Culianin Dike Road Pipelaying Project. The Project was completed before the deadline of the transfer of the said Culianin and San Jose water service connections to PLAWD. Another, pipelaying project, the Lalangan-Alveo Pipelaying Project, was also accomplished before the end of CY 2024 which significantly improved the water supply in the Alveo Subdivision and adjacent communities. Other projects under the Gender and Development (GAD) Program including the construction of 5-faucet handwashing facilities in 16 public schools and municipal jails in Plaridel was also completed, together with the installation of bidets in several public toilets.

Under the directives of RA 9275 – The Philippine Clean Water Act of 2004, G.R. Nos. 171947-48 - The Supreme Court Mandamus for the Clean-Up and Rehabilitation of Manila Bay and other related statutory requirements, the Septage Management Program for Plaridel is being implemented through the Memorandum of Agreement (MOA) between the Plaridel Water District and the Baliwag Water District (BWD). Under the MOA, the BWD shall desludge, transport and treat septage collected from the concessionaires’ septic tank in Plaridel in behalf of PLAWD. The Program has been ongoing since September 2023 and has served 1,198 households in 4 barangays of Plaridel, namely, Brgys. Culianin, San Jose, Bintog and Bulihan which collected a total of 1,705 cum. of sludge collected. In CY 2024

alone, a total of 1,320 cum. of sludge have been collected, treated and disposed which promoted the health, well-being and sanitary conditions of the served households. The Program also aims to prevent uncollected septage from seeping into aquifers, considering that more than 71.29% of the water source of Plaridel comes from the 8 deep wells of PLAWD, distributed from 7 different barangays. The MOA between LWUA and PLAWD to allocate the Php 84.97-M grant for the design and construction of the Plaridel Septage Treatment Plant (SpTP) was approved and signed. The LWUA have undertaken the procurement process for the Plaridel SpTP including the other recipient water districts, namely, Norzagaray WD, San Miguel WD, Dinalupihan WD and Cabuyao WD. PLAWD procured a 2000-square meter lot in Brgy. Agnaya last December 2024 as the new site of the proposed Plaridel SpTP. Construction of the Plaridel SpTP is expected to commence on CY 2025.

The cost for repairs of damaged pipelines and the transfer/relocation of transmission distribution pipes (Tabang-Looban Bridge Pipe Relocation Project) and individual water service connections significantly increased due to the intensified government infrastructure projects undertaken in Plaridel. Said costs should have been shouldered by these road and drainage contractors instead of being disadvantageous and a burden to PLAWD and other affected water districts.

PLAWD complied all the mandatory bacteriological, physical and chemical quality testing as mandated under the Philippine National Standards for Drinking Water. The water quality issues in the Culianin Pump Station, as the reason of its long shutdown in CY 2022, has been resolved through the use of a more potent disinfectant (Chlorine Dioxide) and dilution with the bulk water from the BBSWP-IP1. Though the supply of IP1 decreased, the additional supply from the Culianin Pump Station, the transferred Bustos Water District pipelines in Brgys, Culianin and San Jose and the newly-completed Culianin Dike Road Pipelaying Project has augmented and increased the water supply in the Culianin and San Jose area, especially those along the Bintog-San Jose-Culianin Dike Road.

The Program for the replacement of old, defective and damaged water meters including the standardization of pipes and fittings for existing water meter assemblies, from the ½” dia. to the ¾” size of service connection continues. Likewise, the repair and maintenance of the main water distribution pipelines, reconditioning and preventive maintenance of submersible pumps, motors and facilities of PLAWD pump stations, were diligently implemented by PLAWD in CY 2024.

## II. ADB-LWUA PROJECTS

The Plaridel Water District (PLAWD) is one of the beneficiaries of the Local Water Utilities Administration – Asian Development Bank – Water District Development Sector Project (LWUA-ADB-WDDSP) which aims to improve the water service delivery to its concessionaires. The Project is composed of the following components:

No.	Description of Program / Project	Approved Project Cost	Status
1	<p><b>Package 1: Design and Construction of Plaridel Water Supply System</b></p> <ul style="list-style-type: none"> <li>• Pipe-laying of additional larger-sized transmission and distribution lines of forty (40) kilometers length of pipes ranging from 75mm to 500mm diameter pipes</li> <li>• Construction of ground reservoir (Glass-Fused-to-Steel) in Brgy Rueda with a capacity of 1,500 cu.m. expandable to 2,000 cu.m. to buffer peak demand</li> <li>• Installation of 30 Hp vertical multistage centrifugal pump and motor with variable frequency drive (VFD) motor control, discharge piping assembly, column pipes and other electrical works.</li> <li>• Installation of 60 kVA Generating Set, 230 VAC, diesel engine drive, silent type, complete with breaker type manual transfer switch, cables and earthing materials</li> <li>• Installation of 15 Kva Distribution Transformer and its protective devices and metering facilities.</li> <li>• Installation of power line extension.</li> <li>• Construction of 20 sq.m. climate proof pump house.</li> <li>• Construction of perimeter/security fence. Additional back-up power supply system (generator sets) shall be provided in three (3) existing PLAWD pump stations to ensure continuous power supply even during power breakdowns.</li> </ul>	Php 220-M	<p>On-going Pipe Laying Construction.</p> <p>Accomplishment: 63%</p>
2	<p><b>Package 2: Design and Construction of New PLAWD Administration Building</b></p> <ul style="list-style-type: none"> <li>• Design and construction of the new two-storey Plaridel Water District (PLAWD) Administration Building with basement, warehouse and parking area to be located in Brgy. Bintog, Plaridel. (To be replaced by procurement of materials for the 10-Year CAPEX Program of PLAWD).</li> </ul>	Php 60.5-M	Cancelled
3	<p><b>Package 3: Design and Build of Banga 1 Storage Facility (Water Reservoir) with Booster Pump Station</b></p> <ul style="list-style-type: none"> <li>• Construction of ground reservoir (Glass-Fused-to-Steel Bolted) with a capacity of 1,500 cu.m. expandable to 2,000 cu.m. to buffer peak demand</li> <li>• Installation of 30 Hp vertical multistage centrifugal pump and motor with variable frequency drive (VFD) motor control, discharge piping assembly, column pipes and other electrical works.</li> </ul>	Php 24.062-M	<p>On-going Construction.</p> <p>Accomplishment: 42%</p>

	<ul style="list-style-type: none"> <li>• Installation of 60 kVA generator set, 230 VAC, diesel engine drive, silent type, complete with breaker type manual transfer switch, cables and earthing materials.</li> <li>• Installation of 15 kVA distribution transformer with protective devices and metering facilities.</li> <li>• Installation of power line extension.</li> <li>• Construction of 20 sqm. climate-proof pump house.</li> <li>• Construction of perimeter/security fence.</li> </ul>		
4	<p><b>Package 4: Procurement of Service Vehicles</b></p> <ul style="list-style-type: none"> <li>• PLAWD request for the purchase of two (2) service vehicles: One (1) commuter van and one (1) utility light truck as was approved by the DBM.</li> </ul>	<p>Php 1,720,000 + <u>Php 540,000</u> Php 2,260,000</p>	<p>Purchase completed in 2023.</p>

### III. SUMMARY of ACCOMPLISHMENT for the CY 2024 PROJECTS AND PROGRAMS of PLAWD

The following are the completed projects and programs funded by the PLAWD's internal revenues:


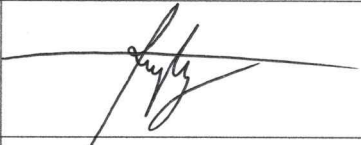

No.	Description of Project / Program	Approved Project Cost	Date Completed
1	<p><b>Culianin Dike Pipe-Laying Project</b></p> <ul style="list-style-type: none"> <li>• Pipe-laying with a total of 812 linear meters of PVC pipe [163 meters of 150mm (6") dia. and 649 meters of 100mm (4") dia. PVC pipe]; and</li> <li>• Installation of gate valves and various fittings for the interconnection points.</li> </ul>	<p>Php 976,742.54</p>	<p>Dec. 2024</p>
2	<p><b>Lalangan-Alveo Pipe-Laying Project</b></p> <ul style="list-style-type: none"> <li>• Pipe-laying with a total of 245 linear meters of 100mm (4") dia. PVC pipe; and</li> <li>• Installation of gate valves and various fittings for the interconnection points.</li> </ul>	<p>Php 241,640.14</p>	<p>Dec. 2024</p>
3	<p><b>Tabang Sitio Looban NIA Bridge 300mm Dia. Steel Pipe Relocation Project</b></p> <ul style="list-style-type: none"> <li>• Dismantling of 10 linear meters of 300mm (12") dia. steel pipe;</li> <li>• Relocation of 300mm (12") dia. steel pipe, five (5) meters away from the original location on the left side of the bridge.</li> <li>• Interconnection/reconnection of 300mm (12") dia. steel pipe to the existing PLAWD water distribution lines along Tabang Sitio Looban Road; and</li> <li>• Installation of gate valves and air release valve including the various fittings for reconnection to the existing PLAWD main distribution line.</li> </ul>	<p>Php 1,141,710.00</p>	<p>Nov. 2024</p>
4	<p><b>Installation of Bidet in Public Places</b></p> <ul style="list-style-type: none"> <li>• The purpose of the project is to provide and install bidet in public places toilet without bidet; and</li> <li>• To promote sanitation and hygiene practices to the general public.</li> </ul>	<p>Php 40,000.00</p>	<p>Nov. 2024</p>

5	<p><b>Non-Revenue Water (NRW) Reduction Program</b></p> <ul style="list-style-type: none"> <li>The purpose of the program is to detect and repair leaks in the water distribution system that contribute to the increase in NRW or water losses; and</li> <li>To provide the necessary actions to prevent losses or at least minimize them to an acceptable level as possible.</li> </ul>	-	Mar 2024
6	<p><b>Construction of Hand Washing Stations for Public Schools</b></p> <ul style="list-style-type: none"> <li>The purpose of the project is to provide and construct a concrete Hand Washing Stations to 16 Public Elementary Schools within Plaridel, Bulacan.</li> </ul>	Php 792,626.24	Dec. 2024
7	<p><b>Construction of Hand Washing Stations for BJMP and Municipal Jail</b></p> <ul style="list-style-type: none"> <li>The purpose of the project is to provide and construct a concrete Hand Washing Stations to BJMP and Municipal Jail of Plaridel, Bulacan.</li> </ul>	Php 198,156.56	Dec. 2024
8	<p><b>Installation of Fire Hydrants</b></p> <ul style="list-style-type: none"> <li>The purpose of the project is to construct/install eleven (11) fire hydrants for ten (10) barangays of Plaridel municipality.</li> </ul>	Php 182,613.49	18% completed as of Dec. 2024
9	<p><b>Bloodletting Drive Program</b></p> <ul style="list-style-type: none"> <li>The purpose of the program is to extract blood and to encourage more blood donors to donate their blood particularly to the indigent patients in the hospital care.</li> <li>Four (4) sessions of bloodletting drive from February to October 2024 for four (4) barangays, namely: Banga 1<sup>st</sup>, Dampol, Tabang and San Jose.</li> </ul>	Php 100,000.00	Feb. – Oct. 2024

#### IV. OTHER ACTIVITIES, PROGRAMS and PROJECTS

No.	Description of Program / Project
1	Conduct of regular sampling, testing and analysis of the bacteriological, physical, and chemical properties of product water in all PLAWD pump stations and consumer taps in the PLAWD water supply network in compliance with the Philippine National Standards for Drinking Water (PNSDW).
2	Regular flushing of the water distribution lines to remove water discoloration and sediments which accumulated in the distribution lines.
3	Implement the Fire Hydrant Maintenance Program to ensure all fire hydrants in Plaridel are visible, maintained regularly, and working in good conditions at all times when needed.
4	Undertake the program for the removal of individual long PE tubings ('spaghetti-connections') which are unaesthetic and pose risks for contamination of the water system.
5	Undertake the program for calibration and replacement of old and defective water meters to ensure accurate records are obtained.

6	Process applications and undertake the installation of individual water service connections of new concessionaires of PLAWD.
7	Undertake the program to standardize and equip old water meter assemblies with backflow prevention (check valve) to ensure contamination of the Plaridel water supply system is prevented.
8	Undertake regular maintenance works and prompt repair of damaged individual service connections and main water distribution pipelines.
9	Undertake the program for rehabilitation, repainting and maintenance of PLAWD bridge-pipes in Plaridel.
10	Procurement of essential goods and services needed for the operation and maintenance of the PLAWD water supply system.
11	Undertake the necessary preparations and application to the LWUA for the increase of the PLAWD's minimum water rate from Php 124 to Php 170.
12	Implement the Septage Management Program (desludging and treatment services) in coordination with the Baliwag Water District; and undertake the necessary preparations for the upcoming Php 84.97-M grant from the LWUA for the Design and Construction of the Plaridel Septage Treatment Facility.
13	Regularly coordinates with the Luzon Clean Water Development Corporation (LCWDC) – for the bulk water supply's contracted volume supplied to PLAWD through its Interconnection Points 1 and 2.
14	Regular monitoring of pressure and testing of residual chlorine in strategic areas in the PLAWD water supply network.
15	Preventive Maintenance Program for 8 PLAWD Pump Stations (pull-out, replacement and reconditioning of the submersible motor and pump).
16	Provision of 2,000-Liter Water Tanker for water rationing during water interruption.

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