



PLARIDEL WATER DISTRICT

A.C. Reyes St., Poblacion, Plaridel, Bulacan 3004
Tel. Nos. (044) 795-0102 / 795-1613; Fax No. (044) 760-0229
Email Address: plaridel_water_district1987@yahoo.com
Website: plaridelwaterdistrict.ph



2023 PLAWD PROJECTS AND PROGRAMS ACCOMPLISHMENT REPORT

I. INTRODUCTION

PLAWD is a Government-Owned and Controlled Corporation (GOCC), which is expected to be self-sufficient and finance all its capital and operational expenditures through collection of its water tariffs and fees from its other services. Because of the prevailing low water rates in the past years, PLAWD was not able to accumulate enough revenues to finance major PLAWD projects and programs that will cope with its current water supply deficiencies and provide major improvements in its water supply system. In CY 2020, PLAWD availed the WDDSP loan packages from LWUA which is financed by the ADB, to improve the water supply of the Municipality of Plaridel.

CY 2023 was a very challenging year for the Plaridel Water District (PLAWD), particularly because of its limited financial resources, the need to implement major programs and projects to comply with existing statutory environmental requirements (e.g. Septage Management Program), and the contractual obligations (MWSS-LCWDC-PLAWD BBWSP-MOA) with other government agencies, bulk water supplier, and contractors (for the ADB Projects). Due to the delayed release of the WDDSP loan funds by the LWUA from December 2021 to December 2023, PLAWD shouldered the advance payments for the progress billings of its contractors under the WDDSP-CW10a (Design and Construction of the Plaridel Water Supply System Project) and WDDSP-CW10c (Design and Construction of the 1500-m³ Banga 1st Ground Reservoir) amounting to Php 71-million. These advance payments were supposed to be used for the procurement of goods and services for the implementation of PLAWD programs and projects but were canceled or deferred due to the lack of funds and time for implementation. The PLAWD management prioritized the financing of the construction of the WDDSP projects to deliver the needed water supply to areas affected by water shortages and to minimize the 'Take-or-Pay' penalty provisions under the Memorandum of Agreement of the Bulacan Bulk Water Supply Project.

In addition, a significant amount of the PLAWD budget which was supposed to be used also for PLAWD programs and projects was also used for the implementation of the Septage Management Program of Plaridel. PLAWD availed the desludging and treatment services provided by the Baliwag Water District (BWD) to comply with the existing statutory requirements, as follows:

- RA 9275 – The Philippine Clean Water Act of 2004;
- PD 856 – The Code on Sanitation of the Philippines;
- G.R. Nos. 171947-48-The Supreme Court Mandamus for the Clean-Up and Rehabilitation of Manila Bay;
- P.D. 1067 – The Water Code of the Philippines;
- R.A. 7160 – The Local Government Code of the Philippines; and
- The Plaridel Municipal Ordinance No. 16-2019 – Ordinance Establishing a Proper Sewage Treatment and Septage Management System in the Municipality of Plaridel, Prescribing Penalties for Violation and for other Purposes.

The Program also aims to comply with the requirements of the DENR and avoid the penalty it imposed to PLAWD and the Plaridel LGU, since till date, Plaridel has no Septage Treatment Facility of its own. The Program for desludging of households in Plaridel started on September 2023, which initially served Brgys. Culianin and San Jose. Aside from the desludging and treatment services monthly fee paid by PLAWD to BWD, PLAWD also employed additional manpower and procured materials, tools, and equipment aside from the service vehicles needed for the desludging activities.

Despite of these challenges, PLAWD still completed more than half of the essential planned programs, projects and procurements as soon as enough cash revenues were generated in the last two (2) quarters of the year. PLAWD pushed through with the procurement of essential items and equipment. The mandatory bacteriological, physical and chemical quality tests were completed wherein its results complied with the Philippine National Standards for Drinking Water. There were also several programs and two (2) by-administration pipe-laying projects that were accomplished. The replacement of old and defective water meters, standardization of existing water meters, repair maintenance of the main water distribution pipelines, preventive maintenance including reconditioning of submersible pumps and motors of PLAWD pump stations were also accomplished.

II. SUMMARY of ACCOMPLISHMENT for the CY 2023 PROJECTS AND PROGRAMS

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>San Jose – Pulong Bato Pipe-Laying Project</p> <ul style="list-style-type: none"> • Pipe laying of 886 linear meters of 50mm (2") dia. PVC pipe which will be connected to the existing PLAWD distribution line of 100mm (4") dia. PVC pipe in Brgy. San Jose Road. • Installation of blow-off and various fittings for the interconnection points. • The Project aims to provide water supply main lines to residents of Sitio Pulong Bato in Brgy. San Jose, Plaridel which was not covered before by the PLAWD water supply network. 	Php 679,721.65	Mar 2023
2	<p>Lagundi – Balanti Road Pipe-Laying Project</p> <ul style="list-style-type: none"> • Pipe laying of 672 linear meters of 150mm (6") dia. PVC pipe which will be connected to the on-going pipe laying project funded by Asian Development Bank (ADB) of distribution lines of 200mm (8") dia. and 100mm (4") dia. PVC pipe in Balanti area. • Installation of various fittings for the interconnection points. • The Project shall provide water supply distribution lines to residents of Sitio Balanti in Brgy. Lagundi, Plaridel which was not covered before by the PLAWD water supply network. 	Php 1,326,145.38	Nov 2023

3	Emergency pull-out, replacement and reconditioning of the submersible pump, motor and replacement of variable frequency drive (VFD) of the Tabang Pump Station	Php 174,330.00	Feb 2023
4	Emergency pull-out, replacement and reconditioning of the submersible pump and motor of the Sitio Santiago Pump Station	Php 87,000.00	May 2023
5	Preventive maintenance: pull-out, replacement and reconditioning of the submersible pump and motor of the Plaridel Heights Pump Station	Php 77,000.00	Aug 2023
6	Replacement of the manual transfer switch (MTS) of the Tabang Pump Station to the automatic transfer switch (ATS) to maintain uninterrupted water supply in Brgy. Tabang and adjacent areas	Php 180,000.00	Mar 2023
7	Fabrication of improvised 2-cum. water tanker to be used for water rationing to areas in Plaridel affected by water interruptions, and for cleaning and other purposes.	Php 300,000.00	Apr 2023
8	Provision of WASH/Hygiene Kit during World Water Day Celebration to concessionaires of PLAWD	Php 50,000.00	Mar 2023
9	Provision of Alcohol and Disinfectants for PLAWD Employees and concessionaires for COVID-19 Prevention	Php 50,000.00	Jun 2023
10	Provision and administration of flu vaccines to PLAWD employees	Php 100,000.00	Apr 2023
11	Conduct of feeding program for malnourished children in Brgy. Banga 2nd, Plaridel	Php 60,000.00	Jun 2023
12	Conduct of blood donation drive in Brgys. Poblacion and Banga 1st, Plaridel	Php 140,000.00	Feb 2023 and Mar 2023

III. 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>Package 1: Design and Construction for the Improvement of the Plaridel Water Supply System</p> <ul style="list-style-type: none"> • Pipe-laying of additional larger-sized transmission and distribution lines of forty (40) kilometers length of pipes ranging from 75mm to 500mm diameter pipes to improve the water supply distribution in all the nineteen (19) barangays of Plaridel. • 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 and boost water pressure in the water supply system. • 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. • Installation of 60 kVA Generating Set, 230 VAC, diesel engine drive, silent type, complete with breaker type manual transfer switch, cables and earthing materials • Installation of 15 Kva Distribution Transformer and its protective devices and metering facilities. • Installation of power line extension. . • Construction of 20 sq.m. climate proof pump house. • Construction of perimeter/security fenceAdditional 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. 	Php 220-M	Ongoing construction. Accomplishment: 62%
2	<p>Package 2: Design and Construction of New PLAWD Administration Building</p> <ul style="list-style-type: none"> • 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 that shall provide spacious and comfortable working condition for PLAWD employees. 	Php 60.5-M	For rebidding






3	<p>Package 3: Design and Build of Banga 1 Storage Facility (Water Reservoir) with Booster Pump Station</p> <ul style="list-style-type: none"> • Construction of ground reservoir (Glass-Fused-to-Steel Bolted) with a capacity of 1,500 cu.m. expandable to 2,000 cu.m. • 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. • Installation of 60 kVA generator set, 230 VAC, diesel engine drive, silent type, complete with breaker type manual transfer switch, cables and earthing materials. • Installation of 15 kVA distribution transformer with protective devices and metering facilities. • Installation of power line extension. • Construction of 20 sqm. climate-proof pump house. • Construction of perimeter/security fence. • The Project aims to buffer peak demand and boost water pressure in the Plaridel water supply system which shall benefit the barangays Banga 1st, Banga 2nd, Poblacion, Sta. Ines and Lumang Bayan affected by low water pressure. 	Php 24.06-M	Ongoing construction. Accomplishment: 26%
4	<p>Package 4: Procurement of Service Vehicles</p> <ul style="list-style-type: none"> • PLAWD request for the purchase of two (2) service vehicles: One (1) commuter van and one (1) utility light truck as approved by the DBM to replace the old PLAWD vehicles, wherein one is 14 years and the other is 19 years already experiencing frequent repairs and breakdowns. 	Php 1,720,000 + Php <u>540,000</u> Php 2,260,000	Purchase completed.

IV. OTHER ACTIVITIES, PROGRAMS and PROJECTS

The PLAWD implemented its regular programs and activities to ensure proper management, operation, and delivery of services are provided.

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 pipelines to remove water discoloration and sediments that accumulated in the distribution lines.
3	Regular monitoring of pressure and testing of residual chlorine in strategic areas in the PLAWD water supply network.
4	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.

5	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.
6	Undertake the program for calibration and replacement of old and defective water meters to ensure accurate readings are obtained.
7	Process applications and undertake the installation of individual water service connections of new concessionaires of PLAWD.
8	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.
9	Undertake regular maintenance works and prompt repair of damaged individual service connections and main water distribution pipelines.
10	Undertake the program for rehabilitation, repainting and maintenance of PLAWD bridge-pipes in Plaridel.
11	Procurement of essential goods and services needed for the operation and maintenance of the PLAWD water supply system.
12	Undertake the necessary preparations and submission of requirements to LWUA for the application to increase of the minimum water rate of PLAWD from Php 124 to Php 170.
13	Implement the Septage Management Program (desludging and treatment services) in coordination with the Baliwag Water District and undertake the necessary preparations for the procurement of the Php 84.97-M grant from the LWUA for the Design and Construction of the 70 cum./day Plaridel Septage Treatment Facility.
14	Regularly coordinates with the Luzon Clean Water Development Corporation (LCWDC) for the bulk water supply supplied to PLAWD through its Interconnection Points 1 and 2.

Prepared by:	Reviewed by:	Approved by:
 ENGR. ALBERTO A. MENDOZA Senior Engineer A	 ENGR. REYNANTE D. FRANCISCO Manager, Engineering and Technical Division	 ENGR. MARIO G. MACATANGAY Interim General Manager