



# PLARIDEL WATER DISTRICT

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## 2022 PLAWD PROJECTS AND PROGRAMS ACCOMPLISHMENT REPORT

### I. INTRODUCTION

Due to rapid urban growth and increased of population in the Municipality of Plaridel, the Plaridel Water District (PLAWD) is continuously providing pipe-laying projects to areas/barangays without water distribution lines yet. Because of the lack of available main lines in these areas, concessionaires shouldered the installation of long-lined and exposed P.E. tubing (pagapang) which is very costly for them.

PLAWD also programmed the removal of "spaghetti" connections blocking the NIA waterways. These "spaghetti" connections trapped garbage and causes impediment of the water flow along irrigation canals and which are also unaesthetic to the sight of the general public.

Preventive maintenance and reconditioning of pump in different pump stations are continuously provided for smooth operation and good condition of the water pumps. Likewise, regular monitoring and maintenance of the water distributions lines and appurtenances are provided which is essential for efficient water supply system.

With this, the PLAWD Management unceasingly provides quality management service to its concessionaires.

### II. HIGHLIGHTS OF ACCOMPLISHMENT REPORT FOR 2022 PROJECTS AND PROGRAMS

The following PLAWD funded completed projects and programs accomplishments are enumerated below:

No.	Projects/ Programs Description	Approved Project Cost	Date Covered
1	<b>Bintog–San Jose NIA Road Pipe Laying Project</b> <ul style="list-style-type: none"> <li>• Pipe-laying of 515 linear meters of 100mm (4") dia. PVC pipe which shall be connected to PLAWD distribution line of 150mm (6") dia. PVC pipe and 100mm (4") dia. PVC pipe along San Jose side and Bintog side, respectively.</li> <li>• Installation of gate valve and other fittings for the interconnection points.</li> </ul>	Php377,571.65	March 04– April 29, 2022
2	<b>Preventive Maintenance: Reconditioning of Sipat Pump (PS #4)</b> <ul style="list-style-type: none"> <li>• Pull-out of existing submersible pumpset and riser pipes.</li> <li>• Installation of spare submersible pumpset and riser pipes with splicing works.</li> </ul>	Php45,000.00	March 12, 2022

3	<b>Bintog – Bulihan NIA Road Pipe Laying Project</b> <ul style="list-style-type: none"> <li>• Pipe-laying of 1,080 linear meters of 100mm (4") dia. PVC pipe which connects to PLAWD distribution line of 100mm (4") dia. PVC pipe along Bulihan Road and the other end near Plaridel By-pass Road;</li> <li>• Installation of gate valve and other fittings for the interconnection points.</li> </ul>	Php719,004.65	March 23 – April 29, 2022
4	<b>Bulihan Bukid Pipe Laying Project</b> <ul style="list-style-type: none"> <li>• Pipe-laying of 570 linear meters of 100mm (4") dia. PVC pipe which connects to PLAWD mainline of 150mm (6") dia. PVC pipe along Bulihan Road;</li> <li>• Installation of gate valve, blow-off and other fittings for the interconnection point.</li> </ul>	Php589,366.18	May 04 – June 08, 2022
5	<b>Preventive Maintenance: Reconditioning of Bulihan Pump (PS #8)</b> <ul style="list-style-type: none"> <li>• Pull-out of existing submersible pumpset and PVC riser pipes at 5"Ø x 220' setting;</li> <li>• Installation of spare submersible pumpset and PVC riser pipes at 5"Ø x 220' setting with splicing works;</li> <li>• Reconditioning of (1) Unit SP95-3B Submersible Pump End (disassembly, cleaning, assembly and re-clearance of pump);</li> <li>• Reconditioning of (1) Unit 25HP Submersible Motor (cleaning of motor, refill of lubricant and testing of motor).</li> </ul>	Php62,000.00	May 07, 2022
6	<b>Plaridel Heights Elevated Water Tank – Water Level Control System (Float Valve) Project</b> <ul style="list-style-type: none"> <li>• Supply, installation, testing and commissioning of water level control system in Plaridel Heights elevated water tank.</li> </ul>	Php160,500.00	May 20, 2022
7	<b>St. James – Sta. Ines Bukid Pipe Laying Project</b> <ul style="list-style-type: none"> <li>• Pipe-laying of 634 linear meters of 50mm (2") dia. PVC pipe which shall be connected to PLAWD existing distribution line of 50mm (2") dia. PVC pipe both in St. James Road and Sta. Ines Bukid-Libis Road;</li> <li>• Installation of gate valve, blow-off and other fittings for the interconnection points.</li> </ul>	Php418,699.78	June 13–July 15, 2022
8	<b>Preventive Maintenance: Reconditioning of Parulan Pump (PS #7)</b> <ul style="list-style-type: none"> <li>• Pull-out of existing submersible pumpset and PVC riser pipes at 4"Ø x 180' setting;</li> <li>• Installation of spare submersible pumpset and PVC riser pipes at 4"Ø x 180' setting with splicing works;</li> <li>• Reconditioning of 30HP "Plueger" submersible motor (cleaning of motor, refill of lubricant, testing of motor);</li> <li>• Supply of 5"Ø x 4"Ø Stainless reducer pump nipple with 4"Ø stainless steel coupling.</li> </ul>	Php95,200.00	June 15, 2022

9	<b>Parulan – Tres Marias Interconnection Project</b> <ul style="list-style-type: none"> <li>• Pipe-laying of 390 linear meters of 50mm (2") dia. PVC pipe which shall be connected to the existing PLAWD distribution lines of 100mm (4") and 50mm (2") dia. PVC Pipes;</li> <li>• Installation of gate valve and other fittings for the interconnection points.</li> </ul>	Php260,979.90	July 12 – Aug. 12, 2022
10	<b>Construction of Concrete Hand Washing Station for Public Schools</b> <ul style="list-style-type: none"> <li>• Construction of concrete hand washing station to 17 public schools within the Municipality of Plaridel, Bulacan.</li> </ul>	Php548,966.55	July 20 – Aug. 31, 2022
11	<b>Bulihan Anonas St. NIA Road Pipe Laying and Meter Relocation Project</b> <ul style="list-style-type: none"> <li>• Pipe laying of 1,016 linear meters of 75mm (3") dia. PVC Pipe which shall be connected to PLAWD main distribution line of 100mm (4") dia. PVC pipe along Mahogany Road, Brgy. Bulihan;</li> <li>• Pipe laying of another 126 linear meters of 50mm (2") dia. PVC pipe which shall be connected to the proposed 75mm (3") dia. PVC Pipe;</li> <li>• Installation of blow-off valves and other various fittings to be used in the interconnection points.</li> </ul>	Php1,066,674.50	Oct. 10 – Nov. 19, 2022
12	<b>Meter Relocation Project</b> <ul style="list-style-type: none"> <li>• Relocation of water meters and reconnection/installation of individual household connections to the newly laid PLAWD distribution lines;</li> <li>• Dismantling/removal of individual household connection of long PE tubing (pagapang) that causes eyesore and which are also prone to rupture and contamination.</li> </ul>	Php354,536.72	May – Dec., 2022

### III. OTHER PLAWD FUNDED PROJECTS/PROGRAM COMPLETED FOR 2022

No.	Projects/ Programs Description	Approved Project Cost	Status
1	Data Loggers for Pump Stations	700,000.00	Completed
2	Safety Warning Signage	100,000.00	Completed
3	Calibration and Verification of Colorimeter	40,000.00	Completed
4	Calibration and Verification of pH Meter	40,000.00	Completed
5	Calibration and Verification of Turbidity Meter	20,000.00	Completed
6	Procurement and Installation of the DN150 Electromagnetic Flowmeter (for the Plaridel Hts. PS)	425,800.00	Completed
7	Preventive Maintenance: Reconditioning of Bintog Pump Station	90,000.00	Completed
8	Procurement of Sipat Submersible Pump with Accessories (to be used as its spare)	249,000.00	Completed

9	Procurement of Submersible Sipat Motor with Accessories (To replace the Tabang PS spare motor which was used in the recent Sipat PS breakdown)	249,000.00	Completed
10	Procurement of Parulan Submersible Pump with Accessories (To be used as Parulan PS spare)	150,500.00	Completed
11	Procurement of Submersible Parulan Motor with Accessories (To be used as Parulan PS spare)	180,400.00	Completed
12	Procurement of Bintog Submersible Pump with Accessories to be used for its reconditioning (Note: Was used in the recent Parulan PS Reconditioning)	150,500.00	Completed
13	Procurement of additional Bintog Submersible Pump with Accessories (To be used to replace the Parulan PS spare pump which was used in Bintog PS Reconditioning)	150,500.00	Completed

#### IV. ADB-LWUA PROJECTS (Package 1 to 4)



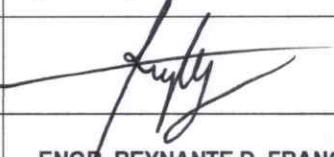
Plaridel Water District (PLAWD) is one of the beneficiaries of the Local Water Utilities Administration – Asian Development Bank – Water District Development Sector Project (LWUA-ADB-WDDSP) which aims to improve the water service delivery to its concessionaires. The projects were funded by ADB through loan agreement with corresponding PLAWD equity.

No.	Programs / Projects Description	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>• Storage tank (water reservoir) shall be constructed in Brgy. Rueda to buffer peak demands;</li> <li>• Additional back-up power supply system (generator sets) shall be provided in three (3) existing Pump Stations to ensure continuous power supply even during power breakdowns.</li> </ul>	Php 220M	On-going Mobilization & Construction
2	<p><b>Package 2: Design and Construction of PLAWD Office Building</b></p> <ul style="list-style-type: none"> <li>• Provide the Plaridel Water District (PLAWD) a new two-storey office building including warehouse and parking areas for the employees and for the customers and visitors.</li> </ul>	Php 52,498,894.00	Under procurement process
3	<p><b>Package 3: Design and Build of Banga 1 Storage Facility (Water Reservoir) with Booster Pump</b></p> <ul style="list-style-type: none"> <li>• Construction of Banga 1 Ground Reservoir (Glass Fused 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</li> </ul>	Php 24,062,899	On-going Mobilization

	<ul style="list-style-type: none"> <li>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.</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 service vehicles was approved by DBM. <ul style="list-style-type: none"> <li>○ 1 –Commuter Van</li> <li>○ 1 – Utility Van</li> </ul> </li> </ul> <p>TOTAL =</p>	<p>Php 1,720,000</p> <p style="padding-left: 100px;">540,000</p> <p>Php 2,260,000</p>	Purchase Completed

#### IV. OTHER ACCOMPLISHED ACTIVITIES

1. Regular flushing and backwashing activities to remove water discoloration and sediments accumulated in the distribution lines.
2. Removal of individual long PE tubing (pagapang) which was an eyesore and which poses hazard and risk of contamination of the water system that may affect the health of the consuming public.
3. Installation of new connections and maintenance of water distribution lines and appurtenances to PLAWD concessionaires.
4. Procurement of goods and services for the operation and maintenance of water supply system.
5. Installation of gate valves at strategic location/points to control the flow of water distribution system.
6. Installation of blow-off pipes for flushing and backwashing activities.
7. Regular water sampling and analysis for physical and chemical examination.
8. Regular maintenance and repair of water distribution system.
9. Regular coordination with the Luzon Clean Water Development Corporation (LCWDC) – Bulacan Bulk Water regarding the PLAWD water contracted volume.
10. Implementation of LWUA approved water rate of Php124 (Minimum Consumption).
11. Plaridel-LGU allotted a 1,000 sqm lot intended for Septage Treatment Plant (SpTP), with an on-going negotiation on a usufruct agreement with PLAWD. The proposed septage fee is Php 2.80 per cubic meter of water consumption is under review and approval of LWUA.

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