



PLARIDEL WATER DISTRICT

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2021 PLAWD PROJECTS AND PROGRAMS ACCOMPLISHMENT REPORT

I. INTRODUCTION

On February 2019, Local Water Utilities Administration (LWUA) took over the operation and management of Plaridel Water District (PLAWD). Issues and problems facing by the district on its operation and maintenance of water supply system were identified by the new management and addressed these properly. These major problems/issues identified were as follows:

- Low water pressure in some barangays specially in the western and central parts of the municipality, such as: Lagundi, Rueda, Sto.Nino, Lalangan, Sipat, Dampol, Lumang Bayan, Banga I & II and Bagong Silang;
- Water discoloration due to iron and manganese;
- Individual installation of long PE tubing (pagapang) by some concessionaires wherein some PE tubing and pipes were submerged along the drainage canal which were prone to contamination.

With the guidance of the new management, PLAWD formulated and implemented various programs, projects and activities to rectify those issues and problems.

II. HIGHLIGHTS OF ACCOMPLISHMENT REPORT FOR 2021 PROJECTS AND PROGRAMS

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

No.	Projects / Programs Description	Project Cost	Period
1	Agnaya Bridge Pipe Relocation Project <ul style="list-style-type: none"> • Installation of temporary steel structure where the 150mm (6") dia. Steel Pipe will be laid at a distance of approximately 5 meters away from the bridge to allow the construction of bridge widening by DPWH. • Dismantling of 150mm (6") dia. BI Pipe and Re-installation of 17 linear meters of 150mm (6") dia. PVCO Pipe after completion of the bridge widening. 	Php 81,287.63	Oct. 2020- July 2021
2	Alveo-Lalangan Pipe Laying Project <ul style="list-style-type: none"> • Laying of 310 linear meters of 75mm dia. (3") PVC pipe 	Php 158,109.70	Dec. 2020- Feb. 2021
3	Bethel Banga 1st Pipe Laying Project <ul style="list-style-type: none"> • Laying of 80 linear meters of 50mm (2") dia. PVC pipe 	Php 35,813.63	Jan.-Feb. 2021
4	Bintog NIA Road Pipe Laying Project <ul style="list-style-type: none"> • Laying of 450 linear meters of 4" dia. PVC pipe • Laying of 246 linear meters of 2" dia. PVC pipe • Installation of 15 linear meters of 6" dia. PVCO Pipe on the side of the bridge 	Php 926,300.50	Jan.-April 2021

5	Villa Gloria Pipe Laying Project <ul style="list-style-type: none"> Laying of 225 linear meters of 150mm (6") dia. PVC pipe Laying of 319 linear meters of 75mm (3") dia. PVC pipe Laying of 458 linear meters of 50mm (2") dia. PVC pipe 	Php 753,867.93	March-May 2021
6	NIA Road Banga 1st Pipe Laying Project <ul style="list-style-type: none"> Laying of 63 linear meters of 50mm (2") dia. PVC pipe 	Php 32,359.58	March-May 2021
7	Reconditioning of Plaridel Heights Pump Station including installation of U-PVC Column Pipe <ul style="list-style-type: none"> Replacement of Pipe Material will make it less maintenance, lighter and does not produce rust. Reconditioning of submersible pump and motor is part of preventive maintenance, it is also the general check-up of the pump station. 	Php 352,310.00	May 04, 2021
8	Cubao St. Banga 2nd Pipe Laying Project <ul style="list-style-type: none"> Laying of 402 linear meters of 50mm (2") dia. PVC pipe 	Php 132,320.77	May-Sept. 2021
9	San Jose Bridge Pipe Relocation Project <ul style="list-style-type: none"> Construction/installation of a permanent steel structure where the 200mm (8") dia. Steel Pipe will be laid at a distance of approximately 2 to 3 meters away from the bridge to allow the construction of bridge widening by DPWH. 	Php 498,900.00	June-July 2021
10	Parulan-Banga II Interconnection Project <ul style="list-style-type: none"> Laying of 510 linear meters of 100mm (4") dia. PVC pipe Boring of 10 linear meters of 100mm (4") dia. PVC pipe road crossing 	Php 235,141.45	June-Sept. 2021
11	Installation of Magnetic Flowmeter <ul style="list-style-type: none"> Magnetic Flowmeter is known to be more accurate and advance in technology. It is a modern device applicable to automated system for instance SCADA. 	Php 355,576.00	September 03 & 11, 2021
12	Installation of Emergency Shower <ul style="list-style-type: none"> It is an additional safety measures for accident such as chemical leak. 	Php 119,000.00	September 14, 2021
13	Leonardo St. Banga II Pipe Laying Project <ul style="list-style-type: none"> Laying of 228 linear meters of 50mm (2") dia. PVC pipe 	Php 163,325.44	Sept.-Oct. 2021
14	Installation of Data-Loggers <ul style="list-style-type: none"> Data-Loggers are modern equipment which records Pressure and Flowrate and store and analyze them automatically. It is a modern device applicable to automated system for instance SCADA. 	Php 427,590.00	October 01, 2021

15	<p>Reconditioning of Bulihan Pump Station including installation of U-PVC Column Pipe</p> <ul style="list-style-type: none"> • Replacement of Pipe Material will make it less maintenance, lighter and does not produce rust. • Reconditioning of submersible pump and motor is part of preventive maintenance, it is also the general check-up of the pump station. 	Php 341,145.00	October 05, 2021
16	<p>Reconditioning of Tabang Pump Station including installation of new Submersible Pump and Motor</p> <ul style="list-style-type: none"> • Reconditioning of submersible pump and motor is part of preventive maintenance, it is also the general check-up of the pump station. • Newly purchased Submersible Pump and Motor were installed. • With this installation Tabang Pump Station increases its production by up to 24% or equivalent to 25,900,000.00 liters of water per month. 	Php 448,499.00	October 27, 2021
17	<p>Verification and Calibration of Flow Meters in PLAWD Pump Stations</p> <ul style="list-style-type: none"> • Verification and calibration of flow meters in PLAWD Pump Stations which have not been done ever since they were installed. 	Php 94,233.14	November 8 & 9, 2021

III. ADB-LWUA PROJECTS (INTERVENTION TARGETS)

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	Project Cost	Period
1	<p>Package 1: Design and Construction of Plaridel Water Supply System</p> <ul style="list-style-type: none"> • Laying of additional larger-sized transmission and distribution lines of forty (40) kilometers length of pipes ranging from 75mm to 500mm diameter pipes • Storage tank (water reservoir) shall be constructed in Brgy. Rueda to buffer peak demands • 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. 	Php 220M	July 2021-March 2023 (On-going Design Stage and Mobilization)
2	<p>Package 2: Design and Construction of PLAWD Office Building</p> <ul style="list-style-type: none"> • 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. 	Php 52,498,894.00	Duration-10 months (under procurement process)

3	<p>Package 3: Design and Build of Banga 1 Storage Facility (Water Reservoir) with Booster Pump</p> <ul style="list-style-type: none"> • 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 • 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 fence. 	Php 24,062,899	Duration-12 months (under procurement process)
4	<p>Package 4: Procurement of Service Vehicles</p> <ul style="list-style-type: none"> • PLAWD request for the purchase of service vehicles was approved by DBM. <ul style="list-style-type: none"> ○ 1 – Commuter Van ○ 1 – Utility Van ○ 1 – Boom Truck <p style="text-align: right;">TOTAL =</p>	<p>Php 1,720,000 540,000 4,090,000</p> <hr style="border: 1px solid black;"/> <p>Php 6,350,000</p>	For procurement process

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 gate valves at strategic location/points to control the flow of water distribution system.
4. Installation of blow-off pipes for flushing and backwashing activities.
5. Regular water sampling and analysis for physical and chemical examination.
6. Regular maintenance and repair of water distribution system.
7. Regular coordination with the Luzon Clean Water Development Corporation (LCWDC) – Bulacan Bulk Water regarding the PLAWD water contracted volume.
8. Implementation of LWUA approved water rate of Php106 (Minimum Consumption).
9. Plaridel LGU provided a lot (1,000 sqm) intended for Septage Treatment Plant (SpTP) on a usufruct agreement with PLAWD. The proposed septage fee is Php 2.80 per cubic meter of water consumption.
10. Hiring of Job Order positions into a regular employee status.

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