

CAMARINES NORTE WATER DISTRICT

Daet, Camarines Norte

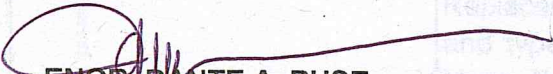
ENGINEERING DIVISION

2014 Major programs and projects categorized in accordance with the five key result areas under EO 43 s. 2011

MAJOR FINAL OUTPUT/KEY RESULT AREAS (KRAs)	PROGRAM / PROJECT / ACTIVITY	REMARKS / STATUS KEY RESULT AREAS (KRAs) OF IMPLEMENTATION / BENEFICIARIES
Expanded Service Area	<p>Tapping of additional service connections within the existing water system</p> <p>Installation of 1,368 linear meters x 160 mm Ø and 1,200 linear meters x 110 mm Ø uPVC pipes interlooping line and tapping of 71 additional service connections at Brgy. Gahonon, Daet, Camarines Norte.</p> <p>Interconnection of 213 linear meters x 90 mm Ø uPVC pipe extension line at Liberty Homes Purok 7 Brgy. San Isidro, Daet, Camarines Norte and tapping of additional 44 service connections.</p>	Additional 838 service connections were tapped.
Improved and More Reliable Water Works Operation	<p>Intensive Leakage Detection and Repair Program within the whole service area.</p> <p>Replacement of 11,569 linear meters dilapidated ¾" Ø Pb pipe service lines with ½" Ø PE pipe of 427 service connections within the whole service area.</p> <p>Clustering of 133 service connections and abandonment of old and dilapidated 126 mm Ø ACP distribution line at Brgy. Camambugan, Daet, C.N.</p> <p>Replacement of 690 linear meters distribution line (with bottle necks) of various sizes and make within the municipality of Labo, Camarines Norte.</p> <p>Replacement of dilapidated 226mmØ Asbestos Cement Pipe (ACP) x 96 linear meters with 225mmØ uPVC Distribution Line along F Pimentel Ave., Brgy. 8, Daet, Camarines Norte.</p> <p>Replacement of existing dilapidated dist. line of various sizes and types with 90mmØ x 372 LM uPVC pipes at Trece de Mayo, Borabod, Daet, Camarines Norte</p> <p>Partial CNWD Water System Rehabilitation Project, to wit:</p>	<p>The simultaneous implementation of projects and programs of the CNWD Technical Division such as:</p> <ul style="list-style-type: none"> - intensive night leak detection of 472 leakages, mostly underground leakages, and accomplishment of 862 maintenance works, - replacement and abandonment of old, dilapidated & bottle necked distribution lines, - clustering of service connections and - installation of interlooping lines. <p>increase water pressure at endpoints within the system with low water pressure to no water, as shown in the chart (CNWD monitor water pressure both manually and electronically using water pressure monitoring device).</p>

MAJOR FINAL OUTPUT/KEY RESULT AREAS (KRAs)	PROGRAM / PROJECT / ACTIVITY	REMARKS / STATUS KEY RESULT AREAS (KRAs) OF IMPLEMENTATION / BENEFICIARIES																				
	<ul style="list-style-type: none"> - 576 linear meters of 90 mm Ø uPVC distribution pipeline along Mocong Rd., Basud, Camarines Norte - 144 linear meters of 110 mm Ø uPVC distribution pipeline along Gahonon Rd., Daet, Camarines Norte - 810 linear meters of 225 to 280 mm Ø uPVC distribution pipeline along F. Pimentel Ave., Daet, Camarines Norte - 2,532 linear meters of 110 to 160 mm Ø uPVC distribution pipeline at Mercedes, Camarines Norte - 858 linear meters of 280 mm Ø uPVC distribution pipeline at Calabagas, San Vicente, Camarines Norte - 240 linear meters of 90 to 160 mm Ø uPVC distribution pipeline at Poblacion, Talisay, Camarines Norte - 780 linear meters of 90 mm Ø uPVC distribution pipeline at Sitio Atag, Brgy. Guinacutan, Vinzons, Camarines Norte - 90 linear meters of 90 mm Ø uPVC distribution pipeline at along Bonifacio St. (from cor. Villaflores St. To cor. J. Lukban St.), Labo, Camarines Norte - Continuation of the previously implemented Rehabilitation Works under the Mampurog Surface Water Source Development Project (MSWDP)/Change Tapping of service connections and abandonment of old distribution line <ul style="list-style-type: none"> a. 305 service connections within Daet South b. 71 service connections along Vinzons Ave., Daet, Camarines Norte c. 47 service connections within Central Plaza Compound d. 46 service connections at San Vicente 	<div data-bbox="1589 277 2163 755" data-label="Figure"> <p style="text-align: center;">IMPROVED WATER PRESSURE AT ENDPOINTS (in psi)</p> <table border="1"> <caption>Approximate data from the bar chart</caption> <thead> <tr> <th>Location</th> <th>Before (Min)</th> <th>Before (Max)</th> <th>After (Min)</th> <th>After (Max)</th> </tr> </thead> <tbody> <tr> <td>Awitan, Daet</td> <td>~1</td> <td>~5</td> <td>~8</td> <td>~12</td> </tr> <tr> <td>Borabod, Daet</td> <td>~2</td> <td>~10</td> <td>~12</td> <td>~18</td> </tr> <tr> <td>Cabusay, Labo</td> <td>~1</td> <td>~10</td> <td>~12</td> <td>~18</td> </tr> </tbody> </table> </div> <p>The partial rehab is 68% completed and expected to further improve water operation upon completion.</p>	Location	Before (Min)	Before (Max)	After (Min)	After (Max)	Awitan, Daet	~1	~5	~8	~12	Borabod, Daet	~2	~10	~12	~18	Cabusay, Labo	~1	~10	~12	~18
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Certified correct:


ENGR. DANTE A. PUSE
 Division Manager C

CAMARINES NORTE WATER DISTRICT

Daet, Camarines Norte
PRODUCTION DIVISION

2014 Major programs and projects categorized in accordance with the five key result under EO 43 s. 2011

MAJOR FINAL OUTPUT/KEY-RESULT AREAS (KRAs)	PROGRAM / PROJECT / ACTIVITY	REMARKS/STATUS KEY RESULT AREAS (KRAs) OF IMPLEMENTATION								
Improved and more reliable waterworks operation	Water source development	Development of Exploratory Well at Manlapaz Subdivision, Brgy. Gumamela, Labo, Camarines Norte (average of 350 cu.m/day) (Target commissioning would be this 2nd quarter of 2015)								
	Rehabilitation of transmission lines (concrete protection, replacement and backfilling)	Concrete Pipe Protection for the Exposed 173mmØ CCI and 425mmØ Steel Pipes Transmission Lines at Boundary of Dela Cruz and Parro Property, Brgy. Calabagas, San Vicente								
		Replacement of Pipes at Crucero Bridge, Talisay								
		Replacement of Pipes at Mabulao Bridge, Daet								
	Painting of Pipes crossing Bridges	Replacement of Pipes at Tagontong Bridge, Mercedes								
		Pipes crossing Daet Bridge # 1 along F. Pimentel Avenue, Daet								
		Painting of 1 Set – 65 LM x 223mmØ Steel Pipes crossing Daet Bridge # 2 along J. Lukban St., Daet								
		Painting of 1 Set – 70 LM x 219mmØ GI Pipes crossing Mabulao Bridge along Diversion Road, Daet								
		Painting of 1 Set – 12 LM x 278mmØ CCI Pipes crossing Namok Bridge along Diversion Road, Daet								
	Painting of 1 Set – 35 LM x 278mmØ CCI Pipes crossing Talisay Bridge along Maharlika Highway, Talisay									

	Painting of Pipes crossing Bridges	Painting of 2 Sets – 11 LM x 91mmØ and 8 LM x 170mmØ GI Pipes crossing Mampoad Bridge along Maharlika Highway, Brgy. San Isidro, Talisay	A total of 314,270 cu.m. of water available for distribution was added compared to year 2013
		Painting of 1 Set – 60 LM x 170mmØ GI Pipes crossing Bical Bridge along Maharlika Highway, Labo	
		Painting of 1 Set – 17.4 LM x 170mmØ GI Pipes crossing Alinao Bridge along Maharlika Highway, Labo	
		Painting of 1 Set – 172 LM x 226mmØ Steel Pipes crossing Busig-on Bridge along Maharlika Highway, Labo	
		Painting of 1 Set – 25 LM x 156mmØ CCI Pipes crossing Banawang Bridge along Guinacutan Road, Brgy. Mancayo,	
	Purchase and installation of flow monitoring device	Purchase 1 set of flow meter for Boro-boro Spring Transmission Line, Brgy. Lugui, Labo	
		Purchase 1 set of flow meter for Banban Spring Transmission Line, Brgy. Fabrica, San Vicente	
		Purchase 1 set of flow meter for Alinao Spring Transmission Line, Brgy. Fabrica, San Vicente	
	Remote Monitoring through SCADA	Installation of Variable Frequency Drive at Pump No.5, Brgy. Lugui, Labo	
		Installation of Soft Starter at Dagotdotan Filtration Compound, Brgy. Dagotdotan, San Lorenzo	
Replacement of Ultrafiltration Membrane	Replacement of 104 pieces Ultrafiltration Membrane at Dagotdotan Filtration Facility		
Improved management of water sources	Watershed Programs	Maintenance and Rehabilitation of the 215 Hectares Plantation Area in Abasig Matogdon Mananap Natural Biotic Area (AMMNBA), Brgy. Lugui, Labo, Camarines Norte	Reforested 10 Hectares Plantation Area in Abasig Matogdon Mananap Natural Biotic Area (AMMNBA), Brgy. Lugui, Labo, Camarines Norte
		Maintenance and Rehabilitation of the 17 Hectares Mangrove Area in Brgy. Manguisoc, Mercedes, Camarines Norte	Reforested 2 Hectares Mangrove Plantation Area in Brgy. Manguisoc, Mercedes, Camarines Norte
		“Ilog ng Buhay Ko Program” Continuous Tree Planting Activities, River Clean Up and Monitoring of the Implementation of the Ecological Solid Waste Management Program (ESWMP) in the four (4) Barangays of San Lorenzo Ruiz, Camarines Norte	Participation of Brgy. Officials, different Agencies, Schools and LGUs in the CNWD Watershed Programs

Expanded Service Coverage	"Hatid Tubig sa Barangay" Water Delivery	Purchase of 1 Unit "Hatid Tubig Sa Barangay" Truck No. CK4436	A total of twenty four (24) barangays and approximately 960 households from Mercedes, Basud, Labo and Talisay are benefiting from this program thru two (2) HTB trucks.
	Installation of water service points in the barangays within the service area but far from the existing distribution line	Five new water points were installed at Brgy. Sta. Cruz, Talisay, at Brgy. Sta. Elena, Talisay, at Brgy. Calangcawan Norte, Vinzons, and at Brgy. Cabanbanan, San Vicente, Camarines Norte.	As of December 2014, there were seventy seven (78) active water points located in 38 barangays. Municipalities served were Daet (21), Labo (7), Talisay (29), Vinzons (15), Mercedes (5), and San Vicente (1) with total of 2,070 households.

Certified Correct



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