



NATIONAL IRRIGATION ADMINISTRATION **PRIMER**



@nia.gov.ph





NATIONAL IRRIGATION ADMINISTRATION

VISION

By 2022, NIA is a professional and efficient irrigation agency contributing to the inclusive growth of the country and in the improvement of the farmers' quality of life.

MISSION

To plan, construct, operate, and maintain irrigation systems consistent with integrated water resource management principles to improve agricultural productivity and increase farmers' income.

CORE VALUES

Commitment
Integrity
Professionalism



QUALITY POLICY

We commit to provide efficient, effective, and sustainable irrigation services aimed towards the highest satisfaction of the Filipino farmers.

We strive for the attainment of our strategic themes of Technical and Operational Excellence, and Good Governance through Partnership with the farmers and other relevant interested parties.

We abide with applicable legal and international requirements.

We remain dedicated to the core values of Commitment, Integrity and Professionalism, to continually improve the NIA's Quality Management System.

OBJECTIVES

- Increased Irrigated Areas Contributing to Agricultural Productivity;
- Attain Satisfaction of Farmers;
- Improve Planning, Design and Implementation of Irrigation and Multi-purpose Projects to be Climate Change Adaptive;
- Ensure Efficient and Effective Operation and Maintenance of Irrigation Systems;
- Improve Budget Utilization and Revenue Generation from non-irrigations sources;
- Adopt a Results-Based Performance Culture; and
- Improve Management Information Systems and Processes.

STATUS OF IRRIGATION DEVELOPMENT BASED ON INVENTORY

as of December 31, 2021
(in hectares)

REGION	ESTIMATED TOTAL IRRIGABLE AREAS (HECTARES)	SERVICE AREA (HECTARES)	
		NATIONAL IRRIGATION SYSTEMS	COMMUNAL IRRIGATION SYSTEMS
CAR	111,295.65	21,005.32	58,573.73
REGION I	264,491.00	72,449.44	70,176.15
REGION II	457,246.76	182,565.81	58,249.96
REGION III	483,830.18	242,358.51	83,804.95
REGION IV-A	85,929.00	30,012.27	27,714.25
REGION IV-B	143,558.95	35,817.46	49,621.08
REGION V	239,440.00	24,252.14	77,770.51
REGION VI	191,253.16	59,308.78	46,411.27
REGION VII	53,674.35	20,870.80	30,781.00
REGION VIII	91,982.90	29,842.42	42,060.33
REGION IX	93,706.00	19,520.41	27,591.98
REGION X	121,122.69	34,304.29	33,788.40
REGION XI	177,546.92	39,230.63	32,786.93
REGION XII	293,226.24	72,494.35	44,692.55
Caraga	160,176.75	38,756.58	31,968.15
BARMM	160,150.45	32,864.59	21,411.08
Total	3,128,631.00	955,653.79	737,402.32

SERVICE AREA (HECTARES)				TOTAL REMAINING AREA TO BE DEVELOPED
PRIVATE IRRIGATION SYSTEMS	OTHER GOVERNMENT AGENCY-ASSISTED	TOTAL	%	

21,359.50	3,523.52	104,462.07	93.86	10,503.50
19,838.70	48,430.33	210,894.62	79.74	56,588.38
42,619.02	20,626.00	304,060.79	66.50	153,206.47
8,645.47	17,788.04	352,596.97	72.88	134,629.84
6,505.00	2,408.00	66,639.52	77.55	19,289.48
13,761.71	12,596.00	111,796.25	77.87	36,899.99
25,112.00	17,377.82	144,512.47	60.35	94,927.53
15,083.27	14,441.30	135,244.62	70.71	58,871.60
3,485.00	1,462.50	56,599.30	105.45	1,244.05
6,647.75	2,751.00	81,301.50	88.39	12,372.83
1,944.00	3,458.00	52,514.39	56.04	41,495.61
8,371.79	5,645.56	82,110.04	67.79	40,465.02
1,085.00	1,585.27	74,687.83	42.07	103,797.36
2,840.00	10,276.00	130,302.90	44.44	163,316.34
3,113.00	6,171.00	80,008.73	49.95	80,335.90
90.00	295.00	54,660.67	34.13	106,315.28
180,501.21	168,835.34	2,042,392.66	65.28	1,114,259.19

FOREIGN-FUNDED PROJECTS

CHICO RIVER PUMP IRRIGATION PROJECT (CRPIP)

Project Description:

- ODA Funded (China)
- Inaugurated on June 25, 2022

The project includes the construction of the following:

1. Pump house with six units of electric driven motor pump with capacity of 3,000 liters per second per unit and appurtenance such as 30-kilometer transmission line, 69-kilovolt substation, and 69-kilovolt switching station,
2. Two units of tunnel works with a total length of 2.03 kilometers,
3. Canalization work composed of 4,403 kilometers of Diversion Main Canal (includes lengths of tunnel work), 33.60 kilometers of main canal, and 30 units of Lateral Canal with total length of 93.41 kilometers,
4. 518 units of Canal Structures and 501 units of Terminal Facilities,
5. Service/Access Road.



Project Cost:	Php 4.372 billion (original) Php 4.497 billion (revised) (based on the restructuring of the project)
Schedule:	September 7, 2018 - September 6, 2021 (original) September 7, 2018 - December 31, 2022 (revised)
Municipalities Covered:	21 barangays in the Municipalities of Tuao and Piat of Cagayan Province and the Municipality of Pinukpuk, Kalinga in Cordillera Administrative Region
Estimated Service Area:	8,700 hectares
Farmer Beneficiaries:	4,350
Water Source:	Chico River
Project Status:	98.82% Completed (as of December 2022) Based on the Revised Construction Schedule in consonance with the approved Variation Order No. 3
Project Highlights	
Pump House completed	69-kilovolt substation and 69-kilovolt switching station completed
2.34-kilometer tunnel works completed	21 units of lateral canal completed
4.469-kilometer Diversion Main Canal completed	292 units of terminal facilities completed
33.636-kilometer Main Canal completed	572 units of canal structure completed

JALAU RIVER MULTIPURPOSE PROJECT - STAGE II (JRMP-II)

Project Description:

The project includes the construction of a storage dam and appurtenant structures across the Jalaor River consisting of high dam and reservoir; an afterbay dam, and a catch dam with a penstock installed at the High Dam for hydroelectric power plant, 80.736 kilometers of High Line Canal starting from Sta. 0+000 at the Afterbay Dam to Sta. 80+736 in Tigbauan, where along RL17 Sta. 3+780 at the High Line Canal in Cabatuan, Iloilo, the Tapping Point for the Potable Water Supply is located. It also includes the upgrading /modernization, rehabilitation, and improvement of the five existing National Irrigation Systems (NISs) and the construction of new irrigation system for the proposed coverage area of 9,500 hectares.



Project Cost:	Php 11.212 billion (original) (Funding Source: LP and GOP)
Schedule:	Original: 2012 to 2017 1 st Revised: 2012 to 2021 2 nd Revised: 2012 to 2023
Municipalities Covered:	Calinog, Passi City, Dueñas, Lambunao, Badiangan, Janiuay, Mina, Cabatuan, New Lucena, Sta. Barbara, San Miguel, Alimodian, Oton, Tigbauan, Dingle, Barotac Nuevo, and Anilao
Estimated Service Area:	31,840 hectares (covering 9,500 hectares of new areas and 22,340 hectares of existing areas)
Farmer-Beneficiaries:	24,000
Water Source:	Jalaur and Alibunan Rivers
Project Status:	Overall Accomplishment: 63.93% (as of December 2022)
Project Highlights	
ACCESS ROADS – 50.735% Accomplished (ongoing)	HIGHLINE CANAL – 36.449% Accomplished (ongoing)
HIGH DAM – 66.343% Accomplished (ongoing)	NEW IRRIGATION AREA – 3.772% Accomplished (ongoing)
AFTERBAY DAM – 62.325% Accomplished (ongoing)	EXISTING RIS – 1.185% Accomplished (ongoing)
ALIBUNAN CATCH DAM – 89.066% Accomplished (ongoing)	

NATIONAL IRRIGATION SECTOR REHABILITATION AND IMPROVEMENT PROJECT (NISRIP)

Project Description:

The National Irrigation Administration (NIA) committed to repair 11 irrigation systems under the National Irrigation Sector Rehabilitation and Improvement Project (NISRIP). It is a project funded by the Japan International Cooperation Agency (JICA) under loan agreement PH-P254 amounting to 6.187 Billion Yen to support the Philippine Government's effort to achieve rice sufficiency.

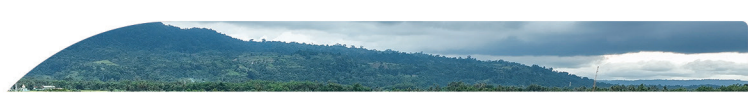
NISRIP aims to stabilize food supply by increasing rice production, establishing operation and maintenance system through restoration and rehabilitation of irrigation facilities, and providing agricultural support facilities.

It is envisioned to increase rice productivity and to establish sustainable O&M system through:

- (1) Rehabilitation and improvement of irrigation facilities,
- (2) Strengthening of Irrigators Associations (IAs), and provision of IA Support facilities, and
- (3) Agricultural support services by the Philippine Rice Research Institute (PhilRice).



Project Cost:	Php 3.134 billion
Schedule:	July 2012 to June 2021
Estimated Service Area:	34,216 hectares (restoration of 10,606 hectares and rehabilitation of 23,610 hectares)
Project Status:	88.01% Completed (as of May 2022)
Project Highlights	
Completed Projects: Region I: San Fabian, Madongan, and Solsona River Irrigation Systems Region III: Porac - Gumain River Irrigation System Region IV-A: Dumacaa River Irrigation System Region IV-B: Malatgao River Irrigation System Region VI: Sta. Barbara River Irrigation System Region X: Muleta River Irrigation System Region XI: Mal River Irrigation System CARAGA: Simulao River Irrigation System	
Inaugurated Projects: Sta. Barbara, Mal, Malatgao, Dumacaa, Porac-Gumain, San Fabian, Madongan, and Solsona River Irrigation Systems	



INTEGRATED NATURAL RESOURCES AND ENVIRONMENTAL MANAGEMENT PROJECT IN SUPPORT TO THE BANGON MARAWI COMPREHENSIVE REHABILITATION AND RECOVERY PROGRAM (INREMP-BMCRRP)

Project Description:

The Marawi Siege from May to October 2017 displaced thousands of households and brought massive destruction to agricultural farms resulting in a limited food supply. In addition, the crisis restricted access to markets and aggravated food insecurity in the affected areas of Marawi City and municipalities of Lanao del Sur. Hence, the core of this investment aims to implement agriculture-based livelihood assistance through the rehabilitation of the irrigation facilities and related capability building of the Irrigators Associations. Likewise, this will allow the swift provision of resources in response to the Bangon Marawi Comprehensive Rehabilitation and Recovery Program (BMCRRP).

The amended Financing Agreement was signed on October 6, 2020, with an approved total project cost of Php 386,707,000.00 comprised of the IFAD Loan Proceeds (LP) equivalent to Php 354,631,000.00 and the Government of the Philippines (GOP) counterpart equivalent to Php 32,076,000.00.

The project aims to increase rural household income by rehabilitating ten (10) communal irrigation systems and provision of post-harvest facilities in Marawi City and municipalities of Ditsaan-Ramain, Bubong, Lumba-Bayabao and Maguing in Lanao del Sur, covering a total of twenty-four (24) barangays. Upon completion, this will fully irrigate a firm-up service area (FUSA) of 2,094 hectares, directly benefitting 1,307 farmers.

This project is also intended to strengthen and build the capacity of the Irrigators Associations to improve farmer productivity through the participatory approach program, conduct of training, seminars, conferences, and their actual participation in the construction phase. These activities have enhanced the farmers' basic leadership skills in organizational management, financial management, and system management to increase their knowledge on the operation and management of the irrigation systems. In addition, farmers were also trained to adapt modern farming technology to boost sustainable production and provide knowledge on climate change adaptation.



Project Cost:	Php 386.707 million (original/approved) Php 353.400 million (actual/revised)
Schedule:	August 1, 2020 - December 31, 2021 (actual/revised) June 30, 2022 (loan closing date)
Municipalities Covered:	24 barangays in Marawi City and Lanao del Sur
Firmed up Service Area	2,094 hectares
Farmer-Beneficiaries:	1,307 Farmer-Beneficiaries (1,241 IA Members)
Project Highlights	
6 Diversions Dams completed	18.677 kilometers of lateral canals completed
4.6 kilometers Access Road completed	83 canal structures completed
16.322 kilometers Main Canal completed	11 warehouse and solar dryers completed

LOCALLY-FUNDED PROJECTS

BALOG-BALOG MULTIPURPOSE PROJECT - PHASE II (BBMP-II)

Project Description:

The project includes the construction of the Balog-Balog high dam and reservoir across the Upper Balsa Moriones River situated in the slopes of Zambales Mountains of Central Luzon.

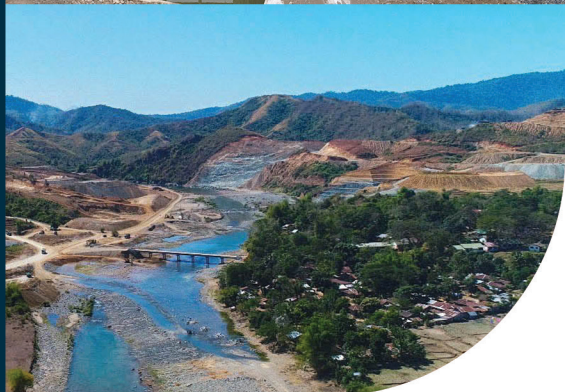
The 28,070-hectare watershed covers the mountainous areas of San Jose and Capas, Tarlac.

The project aims to restore and improve irrigation facilities in the Mt. Pinatubo-affected TARRIS and SMORIS.

Reservoir storage capacity of 559 MCM will provide year-round irrigation supply to 21,935 hectares of new areas and stabilize irrigation service to the existing 12,475 hectares under BBMP Phase I for a total of 34,410 hectares at full development.

Other Project Benefits:

1. Food mitigation in the low lying areas,
2. Commercial inland fish production for the upland settlers, and
3. Potential generation of 43.50 megawatts of hydroelectric energy.



Project Cost:	Php 13.37 billion
Schedule:	2013-2018 (approved) 2013-2025 (proposed)
Municipalities Covered:	Paniqui, Ramos, Pura, Tarlac City, Victoria, Gerona, Concepcion, Capas, La Paz, and San Jose
Estimated Service Area:	34,410 hectares
Farmer Beneficiaries:	23,000
Project Status:	51.29% Completed (as of December 2022)
Project Highlights	
Completed and Inaugurated Repair and Upgrading of Tarlac Diversion Dam Ogee #2 and Broad-Crested Weir	Construction of South Main Canal and its related structures - (ongoing)
Completed Construction of the North Main Canal (14.79 kilometers)	Construction of various irrigation canals - (ongoing)
Construction of the Balog-Balog High Dam and its Apurtenant Structures - 29.61% (for rebidding)	Construction of Resettlement Site and Facilities - (ongoing)
Construction of the Balog-Balog Diversion Tunnel - 47.76% (for rebidding)	

LOWER AGNO RIVER IRRIGATION SYSTEM IMPROVEMENT PROJECT (LARISIP)

Project Description:

The Lower Agno River Irrigation System Improvement Project (LARISIP) is the third phase of San Roque Multipurpose Project - Irrigation Component (SRMP-IC) with ARIIP and ARISEP as the first and second phase, respectively.

The project is situated at the lower left side of the Agno River occupying the downstream portion of ADRIS which was initially developed by ARISEP.

The main objective of the project is to provide a new water source for the existing LARIS System and to increase/improve its operating efficiency through a modernized and upgraded canal system package.



Project Cost:	Php 3.5 billion (Funding Source: GAA)
Schedule:	2018-2021 (original) 2018-2022 (revised)
Municipalities Covered:	Municipalities in the Provinces of Pangasinan, Tarlac, and Nueva Ecija
Estimated Service Area:	12,650 (7,997 hectares in Pangasinan, 4,074 hectares in Tarlac, and 578 hectares in Nueva Ecija)
Farmer-Beneficiaries:	10,372
Project Status:	89.07% CY 2022 Accomplishment 97.00% Overall Accomplishment (as of December 15, 2022)
Project Highlights	
Re-regulating Pond Excavation:	100% completed
Banilla River Slope Protection:	100% Completed
Modification of Bakit-Bakit Checkgate:	100% Completed
Lagasit Dam:	100% Completed
Canalization:	99.23 Overall Accomplishment (ongoing)
Earth Canal:	102.518 kilometers
Structures (New):	1,025 units
Canal Lining (New):	185.772 kilometers completed

MALITUBOG-MARIDAGAO IRRIGATION PROJECT - STAGE II (MMIP-II)

Project Description:

Malitubog-Maridagao Irrigation Project, Stage II (MMIP II) is a locally-funded project with a total NEDA Approved Project Cost of Php 5.444 billion.
Main Objectives:

1. To reduce poverty through sustainable agricultural development and contribute to sustained peace and order in the conflict affected areas in the provinces of Cotabato and Maguindanao.
2. To increase palay production.



Project Cost:	Php 5.444 billion (approved) Php 5.133 billion (revised)
Schedule:	2011-2018 (original) 2011- 2023 (revised)
Municipalities Covered:	Municipalities of Pikit and Aleosan in the Province of Cotabato, and Pagalungan and Datu Montawal in Maguindanao under the Bangsamoro Autonomous Region in Muslim Mindanao (BARMM).
Estimated Service Area:	9,528 hectares
Farmer-Beneficiaries:	2,802
Project Status:	87.59% Completed (as of December 15, 2022)
Project Highlights	
Major Components 59.09 kilometers of main canal 87.00 kilometers of lateral earth canal 596 units of appurtenant structures 412 units on farm-level structures (turn-out)	

MALINAO DAM IMPROVEMENT PROJECT (MDIP)

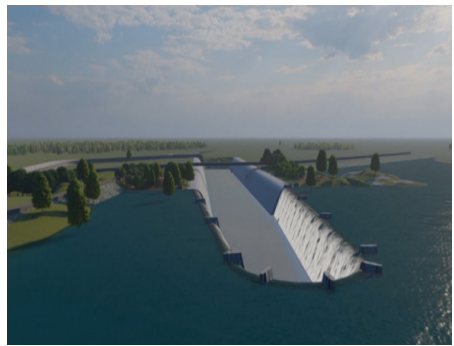
Project Description:

The main features of the project will modify the existing Bath Tub Spillway into Bath Tub with Rubber Gate Weir. The crest elevation is 152.0 meters, the rubber crest weir elevation is 154.0 meters, and length of the rubber crest weir is 322.34 meters. The construction of Proposed Auxiliary Spillway has a broad-crested weir elevation of 152.0 meters with rubber weir crest elevation of 154.0 meters, and the channel shape is trapezoidal. On irrigation area improvement, construction of main farm ditches, lateral canal extension, road repair/improvement, turnouts installation and post-harvest facilities. Capability building of Irrigators Associations (IAs) and Right-of-Way (ROW) acquisition were the other components of the said project.

The project's main objective is to double the impounding capacity of the existing dam, thereby, sufficiently providing irrigation water to unserved and underserved areas of the Bohol Integrated Irrigation System. It also aims to provide the desired volume of water for irrigation to other irrigation systems (Bayongan and Capayas area).

It involves the construction of new canals and structures, and modification of the existing Bath Tub Spillway into Bath Tub with Rubber Gate weir to restore irrigation service area of 740 hectares, covering four municipalities in Bohol Province (comprising the towns of Pilar, Dagohoy, Alicia, and San Miguel will benefit from the irrigation service of the project).

Reservoir catchment area of 138.56.59.km.



Project Cost:	Php 653,749,500.00 (NEDA-ICC's approved total project cost) Php 1,572,324,000.00 (proposed revised project cost) Php 936,324,000.00 (Funded Years: 2011-2012 and 2015-2021)
Schedule:	2014-2016 (NB-approved) 2011- 2023 (proposed)
Municipalities Covered:	Municipalities of Pilar, Dagohoy, Alicia, and San Miguel, Bohol

Estimated Service Area:	740 hectares
Farmer-Beneficiaries:	1,625
Water Source:	Wahig River
Project Status:	Funded Years: 20.68% completed (as of December 15, 2022)
Project Highlights	
Modification of the existing Bath Tub Spillway into Bath Tub with Rubber Gate Weir 3.47% - (for rebidding)	
Completed the construction of MFDs canals and structures (14.368-kilometer canal length and 22 units of structure - completed	
Construction of Sabo Dam and Slope Protection Work - completed	
Renovation of RM's/PM's Office at BLIS Malinao (MDIP) - completed	



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