CY 2024 YEAR-END REPORT OF PROJECT PLANNING DIVISION – ENGINEERING DEPARTMENT

PLANNING AND DEVELOPMENT OF IRRIGATION PROJECTS

I. Project Preparation Activities

On October 17, 2023, Administrator Guillen signed Memorandum Circular No. 137 series of 2023 or the " *NIA Guidelines in Project Preparation for Irrigation Development*" which aims to streamline the preparatory stages for proposed projects in the irrigation sector. This will benefit sixty-two (62) Proposed Projects for CY 2024: 16 Preliminary Feasibility Studies, 18 Feasibility Studies, 21 Detailed Engineering and 7 Other Pre-Engineering Activities.

For CY 2024, a total of PhP 227,158,000 were allocated under FS&DE, PhP 77,532,700 of which is programmed for Feasibility Studies, PhP 149,625,300 for Detailed Engineering (DE) and Other Pre-Engineering Activities of National Irrigation System (NIS) Projects. Table 1 presents the budget allocation, program, and physical accomplishment by region.

Table 1. Summary of Accomplishments by Region

REGION	ALLOCATION (Php '000)			CY 2024 PROGRAM & ACCOMPLISHMENT					
				NUMBER OF PROJECTS					
				PROGRAM		COMPLETED			
						No. of Projects		Percent (%)	
	FS	DE	TOTAL	FS	DE	FS	DE	FS	DE
CAR	1,500	1,500	3,000	2	2	0	0	0	0
R1	750	750	1,500	1	1	0	0	0	0
R2	11,605	14,695	26,300	3	6	0	0	0	0
R3	2,500	37,500	40,000	3	4	0	0	0	0
R4A	2,430	1,500	3,930	2	1	0	0	50	0
R4B	5,000	24,000	29,000	3	5	0	0	0	0
R5	3,000	0	3,000	1	0	0	0	0	0
R6	2,000	0	2,000	1	0	0	0	0	0
R7	1,000	8,000	9,000	2	3	0	0	0	0

REGION	ALLOCATION (Php '000)			CY 2024 PROGRAM & ACCOMPLISHMENT					
				NUMBER OF PROJECTS					
				PROGRAM		COMPLETED			
						No. of Projects		Percent (%)	
	FS	DE	TOTAL	FS	DE	FS	DE	FS	DE
CAR	1,500	1,500	3,000	2	2	0	0	0	0
R1	750	750	1,500	1	1	0	0	0	0
R2	11,605	14,695	26,300	3	6	0	0	0	0
R3	2,500	37,500	40,000	3	4	0	0	0	0
R8	4,200	1,200	5,400	4	3	0	0	0	0
R9	13,230.6	19,500	13,230.60	4	0	0	0	0	0
R10	0	22,882.9	22,882.90	0	1	0	0	0	0
R11	10,700	0	10,700	2	0	0	0	0	0
R12	7,300	0	7,300	3	0	0	0	0	0
R13	1,500	25,000	26,500	1	1	0	0	0	0
UPRIIS	0	9,500	9,500	0	1	0	0	0	0
MARIIS	7,000	0	7,000	2	0	0	0	50	-
C.O	3,817.1	3,097.4	6,914.50	1	1	0	0	0	-
TOTAL	**77,532.7**	**149,625.3**	**227,158**	**35**	**28**	**0**	**0**	**8.60%**	**0%**[1]

a. Conduct of Feasibility Study and Other Related Studies

Out of 35 programmed projects for CY 2024, total accomplishment is 8.60% for Pre-FS, FS, and other related activities. Table 2 presents the budget allocation, program, and physical accomplishment by region.

Table 2. Summary of Accomplishment by Region

REGION	ALLOCATION (Php '000)	CY 2024 PROGRAM & ACCOMPLISHMENT		
		NUMBER OF PROJECTS		
		PROGRAM	COMPLETED	
			No. of Projects	Percent (%)
CAR	1,500,000.00	2	0	0%
1	750,000.00	1	0	0%
2	11,605,000.00	3	0	0%
3	2,500,000.00	3	0	0%

[1] Table 1 DE to be updated by DSD

4A	2,430,000.00	2	1	50%
4B	5,000,000.00	2	0	0%
5	3,000,000.00	1	0	0%
6	2,000,000.00	1	0	0%
7	1,000,000.00	2	0	0%
8	4,200,000.00	4	0	0%
9	13,230,600.00	4	0	0%
10	0.00	0	0	0%
11	10,700,000.00	2	0	0%
12	7,300,000.00	3	0	0%
13	1,500,000.00	1	0	0%
MRIIS	7,000,000.00	2	1	0%
UPRIIS	0.00	1	0	0%
TOTAL	***73,715,600.00***	***34***	***2***	6%

b. Outsourced Feasibility Study

As of December 2024, there are 29 ongoing FS of Major Projects nationwide conducted by different Consulting Firms. Out of 29 ongoing FS, 15 projects are in Luzon, 2 projects are in Visayas, and 12 projects are in Mindanao. These projects could generate new areas with a total of 71,654.95 hectares of potential irrigable areas. Realizations of these projects will significantly contribute to irrigation development targeted in the National Irrigation Master Plan (NIMP). Summarized in Table 3 are the number of projects per region.

Table 3. Ongoing Outsourced Feasibility Studies of Major Irrigation Projects

PROJECT LOCATION	NO. OF PROJECTS	POTENTIAL SERVICE AREA (HAS.)
CAR	3	4,914
REGION 1	1	11,500
REGION 2	5	17,820
REGION 3	3	6,821
REGION 4A	0	0
REGION 4B	1	6,471
REGION 5	2	4,661
SUB-TOTAL 1	*15*	*52,187*
REGION 6	1	900
REGION 7	1	1,000
REGION 8	0	0
REGION 9	0	0
SUB-TOTAL 2	*2*	*1,900*
REGION 10	4	6,300
REGION 11	4	3,797.95
REGION 12	0	0
REGION 13	4	7,470
SUB-TOTAL 3	*12*	*17,567.95*
TOTAL	**29**	**71,654.95**

c. Detailed Engineering

Currently, the Design and Specifications Division has 25 ongoing projects of which 18 are outsourced projects conducted by third-party consultants while 7 of the ongoing projects are in-house projects conducted by the National Irrigation Administration personnel. Summarized in Table 4 are the number of projects per region.

Table 4. Ongoing Outsource and Inhouse Detailed Engineering

PROJECT LOCATION	NO. OF PROJECTS	
	Outsource	Inhouse
CAR	0	0
REGION 1	0	0
REGION 2	0	3
REGION 3	1	2
UPRIIS	0	0
REGION 4A	0	0
REGION 4B	1	1
REGION 5	0	0
SUB-TOTAL 1	*2*	*6*
REGION 6	0	3
REGION 7	0	0
REGION 8	0	0
REGION 9	0	0
SUB-TOTAL 2	*0*	*3*
REGION 10	0	2
REGION 11	0	0
REGION 12	0	0
REGION 13	0	1
SUB-TOTAL 3	*0*	*3*
TOTAL	**2**	**12**

d. Rehabilitation and Improvement for Modernization of National Irrigation Systems

This program was initiated by the NIA Engineering Department last 2021 through the development of Feasibility and Detailed Engineering Studies on the 370 existing National Irrigation Systems (NIS) in the Philippines. It is focused on the implementation of an efficient, systematic, and study-based repair, rehabilitation, and improvement program geared toward irrigation modernization through the realization of the following aspects:

- System Automation
- Repair, Rehabilitation, and Improvement
- Expansion
- Restoration
- Drainage Improvement
- Diversification, Post-harvest Processing, and Support
- Retrofitting
- Inclusion of Renewable Energy
- System's Soft Components

Activities:

1. NIS Inventory/Profiling
2. Feasibility Study and Detailed Engineering Design/Study
3. Implementation

Number of NIS: 370
Implementation Period: 2021 onwards (in-house study by RIO/IMO)
Funding:

Year	Amount (000') Php	Source
2021	137,030	GAA (Realigned from PK-PPF un-utilized fund)
2022	197,835	GAA CY 2022
2023	149,572	GAA CY 2023

Status of Accomplishment for CY 2021-2023:

Summary CY 2021-2023					
Year	Program	Completed	Remaining	Accomplishment (%)	
				Physical	Financial
CY 2021	299	299	0	100.00%	98.43%
CY 2022	41	35	6	99.44%	88.55%
CY 2023	28	14	14	74.78%	67.88%
Total	368	348	20	91.40%	84.95%

Region	CY 2021		CY 2022		CY 2023		Program	Completed	Remaining
	Allocation (P'000)	No. NIS	Allocation (P'000)	No. NIS	Allocation (P'000)	No. NIS			
CAR	7,957	6	4,000	2	6,000	1	9	8	1
Region 1	4,200	28	10,000	4	12,500	2	34	34	0
Region 2	9,525	21	13,277	3	17,000	4	26	26	0
Region 3	12,757	38	14,716	4	6,500	1	43	42	1
Region 4A	160.2	41			5,600	1	42	41	1
Region 4B	13,207	15	21,700	5	3,700	1	22	18	4
Region 5	6,378.5	19			10,150	2	21	21	0
Region 6	1,950	13					13	13	0
Region 7	9,157	14	6,562	1	6,172	1	16	16	0
Region 8	10,207	21					21	21	0
Region 9	7,957	6	33,250	6	15,000	2	14	12	2
Region 10	8,557	10			10,000	1	12	10	2
Region 11	8,557	10			5,320	1	11	11	0

Region 12	15,007	22	31,300	8	17,082	3	33	30	3
Region 13	8,857	12			5,000	1	14	13	1
UPRIIS	3,000	20	53,030	7	31,720	6	33	33	0
MARIIS	450	3	10,000	1			4	4	0
TOTAL	**137,030**	**299**	**197,835**	**41**	**149,572**	**28**			

e. Official Development Assistance in Project Preparation

For Official Development Assistance (ODA), grant from Asian Development Bank amounting to US $1.25 million was secured for the preparation of the Mindanao Irrigation Development Project (MIDP), and about US $19 million soft loan from Korean ExImBank for the preparation of five (5) major irrigation projects nationwide under the Philippines-Korea Project Preparation Facility (PK-PPF).

1. **Mindanao Irrigation Development Project (MIDP)**

The Mindanao Irrigation Development Project (MIDP) aims to boost farmers' economic opportunities and incomes while aiding post-COVID-19 economic recovery by improving food security and rural livelihoods. The project focuses on three key outputs: (1) enhancing irrigation planning, design, and management capabilities; (2) developing efficient, climate-resilient irrigation systems; and (3) promoting climate-resilient irrigated farming methods. It is scheduled for implementation from 2026 to 2032 with an estimated budget of USD 88.64 million.

Initially, the program comprises four (4) national irrigation systems - two of which are in Region X, while the rest are in Region XI. These systems include: (1) Balingasag River Irrigation System (RIS) in Lagonglong and Balingasag, Misamis Oriental; (2) Bubunawan RIS in Baungon, Bukidnon; (3) Kipaliku RIS in Sto. Tomas, Davao del Norte; and (4) Cateel Integrated Irrigation System in Cateel, Davao Oriental, with a total future operational area of 10,756 hectares through the rehabilitation and restoration of around 2,903 hectares and the expansion of 2,262 hectares.

Currently, the Asian Development Bank is engaging consultants to revise the feasibility study report considering the GAA-funded structures affected by Typhoon Agaton in 2022, which were initially part of the MIDP scope. Further, in anticipation of the proposed implementation, the Regional Offices are completing the detailed engineering works of simple structures and the acquisition of permits in compliance with the social and environmental safeguards.

One-pager Description for Mindanao Irrigation Development Project

	PROJECT OUTPUTS
Output 1	Strengthening of irrigation planning, design, and management capacities (NIA)
Output 2	Development of efficient and climate-resilient irrigation systems (NIA); and
Output 3	Adoption of climate-resilient irrigated farming practices (NIA and DA(AMAS and ATI).

FUNDING

- Project Preparation Technical Assistance (2020-2022): USD 1.2M
- Project Implementation (2026-2032)
- ADB earmarked USD 100M for Phase 2 (2026 tentative)

INDICATIVE FINANCING PLAN ($ MILLION)

Source	Amount	Share of Total (%)
Asian Development Bank (OCR loan)	62.67	70.7
High Level Technology Fund (grant)*	0.50	0.56
Government of the Philippines	25.48	28.74
Total	**88.64**	**100.00**

** To be confirmed.*
OCR = Ordinary Capital Resources.
Note: Figures may not sum due to rounding.
Source: Asian Development Bank based on TA consultant's report.

Irrigation System	Present Service Area (ha)		Future Service Area (with MIDP, ha)			Draft EIRR (%)
	Operational	Non-operational	Rehab/ Restore	Expansion	Total	
R10: Balingasag River Irrigation System (RIS)	1,101	334	334	223	1,598	16.1
R10: Bubunawan RIS	1,347	739	961	509	2,500	17.0
R11: Cateel Integrated Irrigation System	1,216	1,312	1,157	1,130	3,667	11.2
R11: Kipaliku RIS	2,149	451	451	400	3,000	17.0
Total	**5,600**			**2,262**	**10,765**	

2. *Philippines Korea - Project Preparation Facility (PK-PPF)*

The Philippines Korea - Project Preparation Facility (PK-PPF) is a US $50 million credit facility extended by the government of the Republic of Korea to the Government of the Philippines for preparatory studies of major infrastructure projects. Under NIA, a total of US $19 million credit was granted to conduct the following studies: 1) Feasibility Study (FS), 2) Detailed Engineering Design (DED), and 3) Social and Environmental Impact Assessment (SEIA), including other necessary studies of national infrastructure projects. Table 7 shows the proposed projects under PK-PPF.

Table 7. List of Proposed Projects under PK-PPF

	ACTIVITY	NAME OF PROJECT	LOCATION	REGION	POTENTIAL SERVICE AREA (HA)
Package 1	Feasibility Study	Ilaguen Multipurpose Irrigation and Power Project	San Mariano, Isabela	2	11,350

		Libungan-Malitubog Multipurpose Irrigation and Power Project	North Cotabato	12	14,180
		Muleta Reservoir Irrigation & Hydropower Project	Bukidnon	10	8,500
		Balintingon Multipurpose Project	General Tiño, Nueva Ecija	3	7,831
Package 2	Feasibility Study	Palanan Irrigation Project	Isabela	2	5,200
		Binalbagan IP	Negros Occidental	6	12,100
		Katipunan NIP	Zamboanga del Norte	9	1,500
	Social and Environmental Safeguard	Katipunan	Zamboanga del Norte	9	1,500
		Palanan Irrigation Project	Isabela	2	5,200
		Binalbagan IP	Negros Occidental		12,100
Package 3	Social and Environmental Safeguard Assessment Studies (SESAS)	Ilaguen Multipurpose Irrigation and Power Project	San Mariano, Isabela	2	11,350
		Balintingon Multipurpose Project	General Tiño, Nueva Ecija	3	7,831

		Buldon River Irrigation Project	Buldon, Maguindanao	12 & ARMM	11,447
		Libungan-Malitubog Multipurpose Irrigation and Power Project	North Cotabato	12	14,180
		Muleta Reservoir Irrigation & Hydropower Project	Bukidnon	10	8,500

f. **Rehabilitation and Protection of Watershed Supporting Irrigation Systems (R&P WRSIS)**

In support of the amended Memorandum of Agreement between DENR and NIA (MOA s. 2019), to rehabilitate the 163 watersheds supporting irrigation systems, the R&P WRSIS Program was created.

It primarily aims to address issues and concerns related to accelerated soil erosion at the irrigation facilities, resulting in inefficient delivery of irrigation water supply at the service area. The program focuses on identified NIA areas of management within the covered watersheds.

A total budget of Php 46,100,000 for implementation was allotted for the FY 2024 or year 4 of the program. As of December 2024, a total of 66 out of 163 management plans have been completed in 2024.

Physical and Financial for 2021 to 2024

REGIONS	ALLOCATION (P '000)					CONSOLIDATED ACCOMPLISHMENT			
	CY 2021	CY 2022	CY 2023	CY 2024	SUB-TOTAL	PHYSICAL %	VALUE OF ACCOMPLIS H-MENT (P'000)	FINANCIAL %	EXPENDITURES(P'000)
CAR	6.400	12.515	10.000	3.400	**32.315**	88.01%	28.440	77.53%	25.053
I	7.710	16.300	19.500	3.500	**47.010**	77.80%	36.573	67.68%	31.816
II	6.400	12.634	12.200	3.000	**34.234**	62.99%	21.564	47.96%	16.417
III	6.400	3.200	15.700	2.400	**27.700**	59.11%	16.373	52.40%	14.516
IVA	6.400	18.915	21.000	3.200	**49.515**	87.97%	43.557	83.89%	41.540
IVB	6.400	9.017	16.100	2.800	**34.317**	83.21%	28.555	71.87%	24.663
V	6.400	15.834	13.000	3.100	**38.334**	71.16%	27.277	57.28%	21.957
VI	7.733	8.867	2.600	3.000	**22.200**	67.45%	14.974	58.32%	12.948
VII	6.400	15.715	6.200	2.900	**31.215**	67.30%	21.007	51.54%	16.089
VIII	6.400	6.400	12.200	2.500	**27.500**	65.08%	17.898	38.97%	10.718
IX	6.400	11.634	5.200	3.000	**26.234**	81.21%	21.304	62.28%	16.340
X	6.400	15.715	13.500	3.200	**38.815**	75.50%	29.307	61.94%	24.043
XI	6.400	11.634	5.200	3.000	**26.234**	69.28%	18.175	66.84%	17.536
XII	6.400	11.634	8.700	3.100	**29.834**	68.92%	20.561	72.03%	21.490
XIII	7.757	23.700	14.500	4.000	**49.958**	91.99%	45.958	88.56%	44.244
TOTAL	**100.000**	**193.710**	**175.600**	**46.100**	**515.410**	**75.96%**	**391.523**	**65.84%**	**339.370**