

## NATIONAL IRRIGATION ADMINISTRATION

### STRATEGIC INITIATIVES PROFILE

#### I. STRATEGIC INITIATIVE 1

- 1. Name of Project** : Balog-Balog River Multipurpose Project Stage II (BBMP II)
- 2. Contact Person/  
Project Team Head** : Engr. Florencio F. Padernal, NIA Administrator  
Engr. Ronald S. Magsino, Acting Project Manager, BBMP II
- 3. Project Description** : The project will involve the construction of a high dam (105.5 meter) at the Upper Balsa River, and the construction of irrigation canals, structures and facilities for irrigation. There are intangible benefits that can be realized such as livelihood through aquaculture (150 ha) and expanded agro-economic activities, flood control mitigation, better farm mobility and access to market through constructed irrigation service road (308 km), and potential generation of 43.5 megawatt of hydro-electric energy. It will cover eight (8) towns and one (1) city in the province of Tarlac covering a total area of 34.410 hectares.
- 4. Milestone** :

#### A. Project Approval by NEDA Board

Activities	Timeline	Budget	Funding Source	Status
1. NEDA Board	24 Oct. 2014			Meeting with Cabinet Secretaries and NIA Administrator, decided to have a third party review for High Dam and Mini Dams.
2. NEDA Board	17 Oct. 2014			Presented the comparison of High Dam & Mini Dams. Decision to meet with Cabinet Secretaries & NIA Administrator
3. NEDA-ICC-CC approval of the irrigation component	5 Aug. 2013			Approved the construction of a high dam with provision for hydro-electric power component in the future. For NEDA Board presentation.

4. NEDA-TB endorsement	18 Jul. 2013			Endorsed to NEDA-ICC-CC the approval of the construction of a high dam.
5. Joint NEDA III and NIA Meeting				Follow up meeting at NEDA II Office to discuss refinements made by NIA on various technical design alternatives as suggested in the previous meeting.
6. Joint NEDA III and NIA Meeting	2 Jul. 2013			Result of the study was presented and discussed.
7. Joint NEDA-ICC	Feb.			Further to the May 2012 joint.
8. Joint NEDA-ICC Technical Board & Cabinet Committee Meeting	Feb. 2013			Further to the May 2012 joint ICC TB/CC Instruction, DA & NIA were instructed to undertake the feasibility study on the cascade of smaller dams utilizing NIA's funds.
9. Joint NEDA-ICC Technical Board & Cabinet Committee Meeting	May. 2013			The NEDA-ICC deferred action on the proposed cascade of a smaller dams pending submission of a detailed study.
10. NEDA-ICC-TB endorsed the project to ICC-CC at the project cost of Php14.406 billion	19 Feb. 2012			The project as presented to the technical board will irrigate 34,410 hectares and will generate power of 114.7 gigawatt-hour annually. The latter is intended for Public Private Partnership financing and subject to a separate ICC approval. The project cost presented will cover only the construction of dam and irrigation development. However, an alternative design was proposed reducing the dam height (from 113.5 m to 50 m or 60 m) to be complemented by a cascade of 19-25 smaller dams 5-60 meters high scattered all over Tarlac, province impounding comparable water volume

				and would be capable to irrigate the same service area as envisioned, give high power yield of 59 vis-à-vis 548 families in the original scheme.
<b>11.</b> Regional Development Council (RDC III) Full Council Meeting	13 Dec. 2011			RDC III endorsed the project per RDC III Resolution No. 03-74-2011.
<b>12.</b> RDC III-SCID Special Meeting	21 Feb. 2011			RDC III, Sectoral Committee on Infrastructure Development (SCID); committee members favorably endorsed project.
<b>13.</b> NIA Board meeting	21 Feb. 2011			Approved the endorsement of BBMP II to the NEDA-ICC per resolution no. 76669-11 series of 2011.
	<b>Total</b>	<b>N/A</b>		

## B. Project Implementation

Activities	Timeline		Budget	Funding Source	Status
	Start	End			
1. Detailed Engineering, Pre Construction Activities & Construction support Activities	Sept 2013	May 2016	₱ 344.59 M	GAA	
2. Procurement by Government	2013	2015	₱ 42.65 M	GAA	
3. Contract Procurement for Civil Works & Consulting Services	Sept. 2013	Jun 2014			
4. Construction of Civil Works	Nov. 2013	May 2016	₱ 10,795.54 M	GAA	
5. Other Project Components (Institutional Development, Resettlement program,	Sept. 2013	May 2016	₱ 999.81 M	GAA	

Consulting Services, Watershed Management)					
6. Indirect Cost			₱ 3,633.36 M		
	<b>Total</b>		<b>₱ 15,815.95 M</b>		

## II. STRATEGIC INITIATIVE 2

- 1. Name of Project** : Jalaur River Multipurpose Project, Stage II (JRMP II)
- 2. Contact Person/  
Project Team Head** : Engr. Florencio F. Padernal, NIA Administrator  
Engr. Gerardo P. Corsiga – NIA Region VI  
Regional Manager & Concurrent Project Manager of JRMP II
- 3. Project Description** : The project involves the construction of a high dam across the Jalaur River. Discharges from the Jalaur High Dam through the penstock of the power plant will be conveyed to the Jalaur Afterbay Dam to be released through an 81-km High Line Canal. Along the High Line Canal is a Catch Dam across the Alibunan River to supplemental the discharge coming from the Jalaur High Dam. It also includes the upgrading / modernization, rehabilitation and improvement of the five existing irrigation systems covering 22,340 hectares and the construction and development of new areas of 9,500 hectares within the project area. The project will cover the province of Iloilo that includes 23 municipalities and 2 cities.

The project envisioned to provide year-round irrigation water to the mentioned areas, generate about 6.6 Megawatts of hydro-electric power and supplement the supply of good quality and potable water for domestic and industrial consumption in the nearby municipalities including Iloilo City and to realize intangible benefits including the flooding mitigation (flood control) and promotion of eco-tourism in selected dam/reservoir areas.

4. Milestone :

Activities	Timeline		Budget	Funding Source	Status
	Start	End			
1. Contract procurement For:			₱ 344.59 M	GAA	Completed  Completed  Procurement process on-going  Bid documents preparation on-going
a. Consulting Services	Jul 2013	Oct. 2013			
b. Civil Works for the Development of New area (1,500 ha)					
Phase 1	Oct. 2013	Nov. 2013			
Phase 2	Oct. 2014	Nov. 2014			
c. Civil Works (ICB)	Sept. 2014	Mar. 2015			
2. Detailed Engineering & Design (by Consultants)	Nov. 2013	Aug. 2014			Final Plans and Bid Documents were submitted last Aug. 28, 2014 for evaluation and comments
3. Construction:					Completed  Substantially completed On-going procurement
a. Rehabilitation of 5 existing dams, construction of access roads and project facilities	May. 2012	Aug. 2014	₱ 414.675 M	FY 2011 DAP	
b. New Area (1,500 ha)					
Phase 1	Jun. 2013	Dec. 2014	₱ 199.901 M	GAA	
Phase 2	Jan. 2015	Sept. 2015	₱ 240.600 M	GAA	
c. 3 Dams and High lined Canal	2015	2018	₱ 8,380.154 M	GAA	
4. Consultancy Services	2013	2018	₱ 515.021 M	GAA	On-going review and

					evaluation of Plans and Bid Documents
5. Other Activities (Institutional Dev't, Land Acquisition and Resettlement Management, etc.)			₱ 1,461.789 M	GAA	On-going
		<b>Total</b>	<b>₱ 11,212.140 M</b>		

### III. Strategic Initiative 3

- 1. Name of Project** : Irrigation Hydropower Development Program (IHDP)
- 2. Contact Person/  
Project Team Head** : Engr. Milo M. Landicho, Manager, Project Planning Division, Engineering Department
- 3. Project Description** : Deals on establishment and operations of hydropower plants in irrigation facilities; taps private sector participation through lease-based MOA and Joint Venture Agreement (JVA); doubles beneficial utilization of irrigation water; covers at least 120 deemed potential sites in irrigation facilities; augments irrigation O & M funds from share in plants' gross revenues.
- 4. Milestones** :

Activities	Timeline		Budget	Funding Source	Status
	Start	End			
1. Contract review, processing and approval	Aug 2013	Dec 2013	₱20 M	GAA FS & DE	On-going
2. Development/construction	Jan 2014	Sept 2014			
3. Income generation (Operation of the mini-hydro)	Oct 2014	onward			
		<b>Total</b>	<b>₱20 M</b>		

- 4. Updates** :
- a. On October 20, 2014, NIA requested the Governance Commission for GOCCs for legal advice on the Memoranda of Agreement on the construction/development of hydropower plant entered into by NIA.
  
  - b. On November 4, 2014, NIA inaugurated, switched-on and handed over the JICA-funded 45 KW Mini-Hydro Project in NIA-MARIIS Lateral B.
  
  - c. On November 11, 2014, included in NIA Board's agenda the Revised Guidelines for the Implementation of Hydropower Development Projects within the NIA-owned/Administered Irrigation Systems.

#### IV. Strategic Initiative 4

- 1. Name of Project** : Operation of Small Irrigation Systems and Small Reservoir Systems as National Irrigation Systems
- 2. Contact Person** : Engr. Florentino R. David, Manager, Operations Department  
Engr. Erdolfo B. Domingo, Deputy Administrator for Engineering and Operations
- 3. Project Description** : Small Irrigation Projects (SIPs) and Small Reservoir Irrigation Projects (SRIPs) shall be treated as National Irrigation Systems (NISs) wherein the irrigation users shall pay Irrigation Service Fee (ISF) instead of amortization. Immediately upon completion, these types of irrigation systems shall be turned over for management to duly organized Irrigators Associations (IAs) under Model 4 transfer strategy of NIA's Irrigation Management Transfer (IMT) Program (MC 27, s. 2011). ISF collected will generate additional revenue for NIA.

**4. Milestones** :

Activities	Timeline		Budget	Funding Source	Status
	Start	End			
1. Drafting of the MC by the TWG	Sept 2013	30 Sept 2013	₱0.10M	GAA- IMTSS	Completed
2. Review of the MC by EXECOM and endorsement to NIA Board of Directors	01 Oct 2013	15 Oct 2013			On-going
3. NIA Board's Approval	25 Nov 2013				-
4. Issuance of MC					-
5. MC 58 s. 2013 issued outlining the guidelines in the implementation of SIPs and SRIPS	-	-	-	-	Completed
6. 232 SIPs and 21 SRIPS project being implemented for 2014	01 Jan 2014	31 Dec 2014		GAA	On-going
		<b>Total</b>	<b>₱0.10M</b>		

**V. STRATEGIC INITIATIVE 5**

- 1. Name of Project** : 10 Year Irrigation Development Master Plan and NIA Corporate Plan 2016-2025
- 2. Contact Person** : Angelina P. Angeles, Manager, Corporate Planning Services  
Gene P. Ragodon, Manager, Participatory Irrigation Development Project (PIDP)  
Felix M. Razo, Senior Deputy Administrator
- 3. Project Description** : Preparation of 10-Year Irrigation Development Master Plan and NIA Corporate Plan to formulate irrigation development and management strategies supportive of the development plan and food security goal of the government. The Irrigation Master Plan to include priority list and location of projects, physical targets,

investment requirement, outputs and outcomes, risks and assumptions, while the Corporate Plan to include project development and implementation, operation and maintenance of irrigation systems, and corporate financial operations.

**4. Milestones** :

Activities	Timeline (Actual)	Budget/Funding Source
<b><u>For 2014</u></b>		
1. Request for review of Terms of Reference up to World Bank's go signal to proceed procurement of consultants	30 July – 28 August	
2. Procurement process for the selection of Consultants/Experts	3 September – 28 November	Estimated cost ₱20.86M/ World Bank funds for NIA-PIDP Consultancy Services
3. Shortlisting of Consultancy Services	15 December 2014	
<b><u>For 2015</u></b>		
1. Implementation of Consultancy Services	January – June 2015	
2. Adoption of recommended strategies according to Approved Plan for 2015	July – December 2015	

**VI. STRATEGIC INITIATIVE 6**

- 1. Name of Project** : Watershed and River Basin Management
- 2. Contact Person** : Reynaldo L. Baloloy,  
Head, Environmental and Watershed Management Section  
Project Planning Division, Engineering Department
- 3. Project Description** : Institutionalization of watershed and river basin management in support to irrigation developments
- 4. Milestones** :

Activities	Timeline (Actual)	Budget/Funding Source
1. Rehabilitation/Plantation enrichment in Pantabangan and Magat watersheds covered under LOI 1002-mandating NIA to manage portions of the two watersheds	Continuing activity	₱25.0M(ave.)/Year Regular Fund
2. Updating of the list of critical watersheds supporting irrigation systems for rehabilitation in collaboration with DENR.  This is in addition to the 140 NIS watersheds already submitted to DENR and being reforested under the National Greening Program (NGP) of the Government	End of December 2014	Regular Fund
3. Reforestation/Tree planting support to the NGP	2012 - 2016	₱6.0M/year
4. Integration of watershed characterization during the conduct of feasibility studies of new projects.  To be included in the Terms of Reference (TOR), both for In-house and contract-out projects	Starting 2015	FS and DE Funds
5. Formulation/Implementation of watershed management programs in collaboration with other stakeholders.  NIA to prioritize impounding systems/SRI Projects where number of trees that could be damaged and required to be replaced is substantial. This is also an off-shoot to the tree cutting permit requirements for the project.	All irrigation projects	Part of project costs
6. Participate in the river basin management planning and implementation (convergence initiative)	On-going for the 18 major river basins and other priority principal river basins	Regular fund

7. Reservoir sedimentation monitoring		
a. Magat and Pantabangan reservoirs	Continuing activity	₱3.0M/survey (every 3-5 years)
b. SRIPs and other reservoirs	Establishment of sediment monitoring system in all existing SRIPs by 2015	₱5.0M/reservoir
	Conduct orientation/training by 2016	₱5.0M
	Conduct of bathymetric survey	₱1.0M/survey/reservoir