

NATIONAL IRRIGATION ADMINISTRATION

STRATEGIC INITIATIVES PROFILE

I. STRATEGIC INITIATIVE PROFILE I

1. **Name of Project:** Balog-Balog Multipurpose Project Phase II (BBMP II)
2. **Project Team:** Engr. Florencio F. Padernal, DPA, NIA Administrator
Engr. Josephine B. Salazar, Project Manager, BBMP II
3. **Project Description:** The project envisions the construction of a storage dam and appurtenant structures across the upper Balsa River basin. It has a reservoir area of about 1,230 hectares and is situated at the slopes of Zambales Mountains in Central Luzon. Its watershed area covers the mountainous parts of Bamban, Capas, and San Jose in the province of Tarlac. Irrigation facilities and structures will also be constructed throughout the province to generate new areas and rehabilitated and/or restored Pinatubo- and 1990 earthquake-damaged areas.

The reservoir has a storage capacity of 425 million cubic meters providing irrigation service to 21,935 hectares of new and restored areas and stabilize irrigation supply to the existing 12,475 hectares service area of BBMP Phase I or a total of 34,410 hectares at full development. About 23,000 farmer-beneficiaries in the downstream area of the dam, particularly in the towns of La Paz, Concepcion, Capas, Victoria, Gerona, Pura, Ramos, Paniqui, and Tarlac City are expected to benefit from the project. For the upland communities near the area, commercial and inland fish production, are excellent opportunities for their livelihood.

A provision for the generation of 43.50 megawatts of hydroelectric power in the future is also provided.

From these benefits, the project can easily realize the objectives of increasing farm household income, be a factor in ensuring food security and improve the utilization of the renewable energy resources.

4. Project Milestones

Activities	Timeline	Budget	Funding Source
NEDA Board	19 May 2015		Result of the Revalidation Study in terms of reliability on Irrigation and Power Generation was presented during the NEDA Board Meeting. The BBMP high dam exhibits higher reliability and higher economic benefits compared to TWEDCO's Proposed Balog-Balog Multiple Dam. With the results presented by Dr. Guillermo Q. Tabios III of UP-NHRC, the Balog-Balog Multipurpose Project was confirmed and approved by the NEDA Board.
Joint CabCom Secretaries and NIA Meeting	23 April 2015		NIA Administrator and BBMP Project Manager met with NEDA CabCom Secretaries during the Revalidation Study draft Final Report Presentation by Dr. Guillermo Q. Tabios III of UP-NHRC at Shangri-La Hotel.

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Strategic Initiatives Profile (Annex C)

Submission of Preliminary Findings and Conclusion of the Revalidation Study	21 April 2015		Preliminary Findings and Conclusions of the Revalidation Study Interim Report was submitted to OPAFSAM Secretary Francis N. Pangilinan.
a. Presentation of Revalidation Study Interim Report	23 Mar 2015		The Revalidation Study Interim Report was presented before the NIA-Board in Malacanang by Dr. Guillermo Q. Tabios III of UP-NHRC.
Reliability Analysis by the UP-NHRC for the purpose of supplying water to Balog-Balog Irrigation system	15 Mar 2015		The UP-NHRC completed the Reliability Analysis for the NIA and TWEDCO schemes for the purpose of supplying water for the Balog-Balog Irrigation System including potential power generation; the NIA's Balog-Balog Multipurpose dam with 3 height variations with value engineering and TWEDCO's Balog-Balog Multiple Dam System with specifications (configuration and dimension).
Development of watershed model system by the UP-NHRC	28 Feb 2015		The UP-NHRC completed the development of watershed model systems and development of optimization-simulation model for reservoir operation studies for the NIA and TWEDCO schemes.
Inception Report	23 Jan 2015		The NIA-BBMP received the UP-NHRC submitted Inception Report (Reliability and Project Cost Analyses of NIA's Proposed Balog-Balog Multipurpose Dam Project and TWEDCO's Proposed Balog-Balog Multiple Dam Project).
Review of technical specifications by UP-NHRC	5-15 Jan 2015		The UP-NHRC completed the collection of climatological and hydrological data and the review of technical specifications for the NIA proposed Balog-Balog Multipurpose (single, high dam) Project and TWEDCO proposed Balog-Balog Multipurpose (cascade of low dams).
NTP issuance for Revalidation Study	5 Jan 2015		Notice to Proceed for the Revalidation of all studies pertaining to Balog-Balog Multipurpose Project Phase II (BBMP II) and the proposal from the Private Sector was issued by the NIA-BBMP BAC to UP-NHRC.
MOA Signing between NIA and UP-NHRC	23 Dec 2014		Signing of the Memorandum of Agreement (MOA) between NIA and UP-NHRC for the Revalidation of all Studies Pertaining to Balog-Balog Multipurpose Project Phase II (BBMP II) and the proposal from the Private Sector was made.
Signing of Resolution and Notice of Award	19 Dec 2014		The NIA-BBMP Bids and Awards Committee signed the Resolution and Notice of Award for the Agency-Agency Agreement.
Evaluation of UP-NHRC Proposal	17-18 Dec 2014		The NIA-BBMP Bids and Awards Committee Evaluated the submitted proposal of the UP-NHRC for the revalidation works.
Submission of Proposal by the UP-NHRC	13 Dec 2014		The UP-NHRC submitted their Technical and Financial proposal for the revalidation works in the NIA-Central Office.
NIA-Board	12 Dec 2014		The NIA Board approved the Agency-to-Agency Procurement with the University of the Philippines (UP) through the National Hydraulic Research Center (NHRC) of the National Engineering Center for revalidation of all studies pertaining to Balog-Balog Multipurpose Project Stage II, including proposals from the private sector.
NIA-BBMP request to NIA Administrator	17 Nov 2014		The Project Management Office of BBMP submitted a letter-request to the NIA Administrator for the conduct of technical assistance by the UP-NHRC, for his endorsement and for NIA Board's approval.

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Strategic Initiatives Profile (Annex C)

Joint NIA and UP-NHRC Meeting	6 Nov 2014	Concerned NIA-Central Office staff, together with the NIA Administrator met with the UP-NHRC group and discussed the technical assistance terms of reference and scope of work for the review and validation works for BBMP II, together with the proposal from the private sector.
NIA-BBMP and NIA-Central Office Meeting	4 Nov 2014	A meeting between BBMP staff and NIA-CO concerned personnel was called by the Deputy Administrator for Engineering and Operations. In the meeting, issues and concerns relative to the proposed validation works were discussed particularly on the Terms of Reference and scope of work of the technical assistance.
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.
NEDA Board	17 Oct 2014	Presented the comparison of High Dam and Mini Dams, decision to meet with Cabinet Secretaries and NIA Administrator.
NEDA-ICC-CC approval of the irrigation component	5 Aug 2013	Approved the construction of high dam with provision for hydro-electric component in the future. For NEDA Board presentation
NEDA-TB endorsement	18 Jul 2013	Endorsed to NEDA-ICC-CC the approval of the construction of a high dam.
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.
Joint NEDA III and NIA Meeting	2 July 2013	Result of the study was presented and discussed.
Joint NEDA-ICC	Feb 2013	Further to the May 2012 joint
Joint NEDA-ICC Technical Board and Cabinet Meeting	Feb 2013	Further to the May 2012 joint ICC TB/CC Instruction, DA and NIA were instructed to undertake the feasibility study on the cascade of smaller dams utilizing NIA's funds.
Joint NEDA-ICC Technical Board and Cabinet Meeting	May 2013	The NEDA-ICC deferred action on the proposed cascade of smaller dams pending submission of detailed study.
NEDA-ICC-TB endorsed the project to ICC-CC at the project cost of Php 14.406 billion	19 Feb 2013	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 113.5m to 50m or 60m) to be complemented by a cascade of 19-25 smaller dams 5-60meters 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.
Regional Development Council (RDC III) Full Council Meeting	21 Feb 2011	RDC endorsed the project per RDC III Resolution No. 03-72-2011

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RDC III-SCID Special Meeting	21 Feb 2011		RDC III, Sectoral Committee on Infrastructure Development (SCID); committee members favorably endorsed project.
NIA Board Meeting	21 Feb 2011		Approved the endorsement of BBMP II to the NEDA-ICC per Resolution No.76669-11 series of 2011.

5. Project Implementation

Activities	Timeline		Budget	Funding Source	Status
	Start	End			
Detailed Engineering, Pre-Construction Activities and Construction Support Activities	2013	2018	Php344.59M	GAA	
Procurement by Government	2013	2016	Php42.65M	GAA	
Contract Procurement for Civil Works	2013	2018			
Contract Procurement for Consulting Services	2015	2015			
Construction of Civil Works	2013	2018	Php10,795.54	GAA	
Other Project Components (Institutional Development, Resettlement Program, Consulting Services, Watershed Management)			Php 863.81M	GAA	
Indirect Cost (Contingencies Only)			Php 1,217.41M		
	TOTAL	Php13,370M			

6. Measures Affected: SM1, SM 5, SM6, SM 8, SM 9

II. STRATEGIC INITIATIVE PROFILE 2

- Name of Project:** Jalaur River Multipurpose Project Stage II (JRMPII)
- Project Team:** Engr. Florencio F. Padernal, DPA, NIA Administrator, Engr. Gerardo P. Corsiga - NIA Regional VI Manager & Concurrent Project Manager of JRMP II
- 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 after bay 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 supplement 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

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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. Project Milestones:

Activities	Timeline		Budget (P M)	Funding Source	Status
1. Contract procurement for:					
a. Consulting Services	Jul 2013	Oct 2013			Completed
b. Civil Works for the Development of New Area (1,500 ha)					
Phase 1	Oct 2013	Nov 2013			Completed
Phase 2	Dec 2014	Mar 2015			Completed
c. Civil Works (Competitive Bidding)	Sep 2014	Nov 2015			Bid Docs Preparation
2. Detailed Engineering & Design (by Consultants)	Nov 2013	Aug 2014			Final Plans and Bid Documents were submitted last August 28, 2014 for evaluation and comments
3. Construction					
a. Rehabilitation of 5 existing dams, construction of access roads and project facilities	May 2012	Apr 2013	414.675	FY 2011 DAP	Completed
b. New Area (1,500 ha)					
Phase 1	Jun 2013	Dec 2014	199.901	GAA	Completed
Phase 2	Mar 2015	Dec 2015	240.600	GAA	On-going
c. 3 Dams and High lined Canal	2015	2018	8,380.154	GAA	
4. Consultancy Services	2013	2018	515.021	GAA	On-going review and evaluation of Plans and Bid Documents
5. Other Activities (Institutional Development, Land Acquisition and Resettlement Management)			1,461.789	GAA	On-going
	TOTAL		₱11,212.140 M		

5. Measures Affected: SM1, SM 5, SM6, SM 8, SM 9