

No.	Program/Project Title	Description	Outputs	Outcomes	Project Beneficiaries	Total Project Cost (PhP M)	Plans for 2017
1)	Angat Dam and Dyke Strengthening Project (ADDSP)	Strengthening of the Angat Dam and Dyke in order to ensure its stability and safety to withstand the potential risk posed by possible seismic activity associated with the West Valley Fault, and establish contingency measures. Project Location: Norzagaray, Bulacan	Strengthened structures (dam and dyke), installed instrumentation and constructed auxiliary spillway	It will mitigate the risk of a dam/dyke failure, and to accommodate the updated Probable Maximum Flood of 12,000cms.	Metro Manila and the entire MWSS service area	5,719.90	Continue construction works (dam strengthening)
2)	Angat Water Transmission Improvement Project (AWTIP)	Investigation and rehabilitation of raw water transmission system from Ipo dam to La Mesa Dam, with the construction of new Tunnel No. 4 (4.00 meters diameter x 6.40 kilometers length) as the priority work in order to facilitate the rehabilitation of the whole transmission system. Project Location: Norzagaray, Bulacan	New Tunnel No. 4 of 6.40 kilometers length (4m diameter) that will supply 19cms of raw water	Improved flow and flexibility in the transmission which will enable the full rehabilitation of the whole raw water transmission system	Metro Manila and the entire MWSS service area	5,778.00	Continue construction works
3)	Bulacan Bulk Water Supply Project (BBWSP)	Supply of treated bulk water to the entire Province of Bulacan through its water districts. Project Location: Province of Bulacan	475 million liters per day of treated bulk water	It will address the water supply requirements of the Province of Bulacan.	Province of Bulacan	16,320.00	Continue construction works
4)	New Centennial Water Source - Kaliwa Dam Project (NCWS-KDP)	Development of a new water source in order to meet the increasing water demand by constructing a redundant dam for Metro Manila's domestic water supply Proj. Location: Kaliwa River, Brgy. Pagsangahan, General Nakar, Quezon	Additional volume of raw water in the amount of 600 million liters per day (600mld) once completed.	It will address the short term supply to compensate an imminent deficit from increased demand within the next 3 to 10 years.	MWSS service area particularly in the east and south service area	18,724.00	For NEDA approval of the change in financing from PPP to ODA
5)	Rehabilitation, Operation and Maintenance of MWSS-owned Auxiliary Turbines 4 & 5 (AN-4 & 5) of the Angat Hydro-Electric Power Plant (AHEPP)	The project involves the opportunity to optimize the benefit from the MWSS-owned Auxiliary Turbines 4 & 5 (AN-4 & AN-5) by developing the hydropower generation component, a "by-product" of the raw water flowing through the turbines. Project Location: Norzagaray, Bulacan	28 megawatts of hydropower generation with an estimated annual electricity production of 145.70 GWH.	Extended economic life of the auxiliary turbines by another 30 years as well as increased energy output and load capacity	Water supply security for the entire MWSS service area; and additional power for the Luzon Grid	1,155.00	For NEDA approval of its implementation through Joint Venture Agreement
6)	Sumag River Diversion Project (SRDP)	This involves the tapping of the Sumag River which was originally part of the Umiray-Angat Transbasin Tunnel Project Proj. Location: Umiray, General Nakar, Quezon	600 meters length of tunnel (2.50m diameter) that will provide an additional raw water supply of 188 mld (million liters per day).	it will increase the volume of raw water coming from the Umiray River going to the Angat Reservoir.	New water supply source for BBWSP	774.00	Resumption of construction works
7)	Rehabilitation of Umiray-Angat Transbasin Tunnel structures/facilities (UAT Rehab)	Rehabilitation and strengthening of existing tunnel structures/facilities to withstand future typhoons in order to ensure the continuous flow of raw water from the Umiray River to the Angat Reservoir Proj. Location: Umiray, General Nakar, Quezon	Additional structures that will strengthen the existing system in order to withstand future typhoons and to ensure the availability of at least 9 cms or 780 mld of raw water.	It will mitigate the risk of water shortage, and secure the supply of raw water coming from the Umiray River	Water supply security for the entire MWSS service area;	717.00	Resumption of construction works