Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE SECRETARY
Manila

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12.28.2005

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SPECIAL ORDER)
No. 175)
Series of 2005)

SUBJECT: **CREATION OF A TECHNICAL WORKING GROUP (TWG) FOR THE JICA-ASSISTED PROJECT FOR STRENGTHENING THE FLOOD MANAGEMENT FUNCTION OF THE DPWH**

12-28-05

To ensure the smooth implementation of the activities under the above-captioned JICA Technical Cooperation Program (pursuant to the Record of Discussions dated June 30, 2005) and in order to maximize technology transfer from the JICA Experts assigned to the project, a Technical Working Group (TWG) for the said project is hereby created with the following composition:

Head

- Ms. DOLORES M. HIPOLITO, Project Manager II - PMO-FCSEC

Members

- Mr. NAPOLEON S. FAMADICO, Engineer IV - Planning Service
- Mr. PERFECTO L. ZAPLAN, JR., Engineer V - Bureau of Design
- Mr. TIRSO PERLADA, Engineer IV - Bureau of Construction
- Mr. CARLOS EBORA, Engineer IV - Bureau of Research & Standards
- Ms. JESUSA A. SARAUSAD, Project Manager II - Bureau of Maintenance
- Ms. LEONILA MERCADO, Engineer IV - PMO-MFCP I
- Mr. ALEJANDRO A. SOSA, Project Manager II - PMO-MFCP II
- Representative, Regional/District Engineering Office - For Pilot Project activities only

The Regional/District Engineering Office representative shall be designated by the Regional Director/District Engineer concerned once the pilot project site is approved by the Joint Coordinating Committee (JCC) for the Project.

The TWG shall provide technical support services to the JCC for the Project and shall be guided by the following outputs, per attached copy of the Project Design Matrix of the Project (Annex "I"):

1. Pilot projects are implemented using the technical standards, guidelines and manuals developed under the Project ENCA, Stage I;
2. Research is conducted for developing/updating technical standards, guidelines and manuals and assessing efficient countermeasures for flood control and sabo;
3. A sufficient time of personnel of DPWH are trained on flood control and sabo engineering;
4. Information Management System is established for a more effective flood management function of DPWH; and,
5. DPWH creates the internal mechanism to sustain the development of technology and organization in the field of flood control and sabo engineering.

This Order takes effect immediately.

HERMOGENES E. EBDANE, JR.
Acting Secretary

Annex I Project Design Matrix (PDM)

Project name : Project for Strengthening the Flood Management Function of DPWH
Implementing Agency : Flood Control and Sabo Engineering Center of DPWH (FCSEC)
Target group : Internal organizations and Personnel of DPWH relevant to Flood Control and Sabo Engineering activities

Date : June 2, 2005
Duration : July 01, 2005 – June 30, 2010

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
(Super Goal) Water-induced disasters are mitigated through improved effectiveness of flood control and sabo structures and other measures implemented by DPWH for sustainable development.	Significant decrease in damage to life and properties.	1. Damage Assessment Report 2. Calamity Report	1. FCSEC is supported by policies of the government. 2. The national budget for flood control projects is sustained.
(Overall Goal) More effective and appropriately designed flood control and sabo structures/facilities are constructed by DPWH in accordance with the technical standards, guidelines and manuals.	Number of flood control and sabo structures/facility that are designed and constructed in accordance with the technical standards , guidelines and manuals formulated and produced by FCSEC.	1. DPWH Annual Report	1. Flood management policy of DPWH and related offices/agencies are reviewed and made appropriate for the prevailing conditions in the country. 2. No abrupt change in environment and natural conditions takes place.
(Project Purpose) The flood management function of DPWH is strengthened through research and development, training, information management, implementation of pilot projects and creation of the internal support mechanism.	Number of offices that have capability for implementing survey, planning, design, construction supervision, and maintenance of flood control and sabo structures/facility.	1. DPWH Annual Report	1. Support from relevant offices in DPWH and other agencies/organizations is sustained. 2. DPWH regional, district engineering and project management offices observe the technical standards, guidelines and manuals. 3. Project activities are continued beyond the technical cooperation period.
(Outputs) 1. Pilot projects are implemented using the technical standards, guidelines and manuals. 2. Research is conducted for developing/updating technical standards, guidelines and manuals; and assessing efficient countermeasures for flood control and sabo. 3. A sufficient number of personnel of DPWH are trained on flood control and sabo engineering.	1-1 At least 3 pilot projects (revetment, spur dike and sabo dam) are planned, designed, constructed and maintained. 2-1 Recommendation is made for the revision/ modifications/updating of the technical standards, guidelines and manuals. 2-2 Appropriate countermeasures based on actual field requirements are recommended. 2-3 Alternative low cost flood control and sabo structures are developed. 2-4 Reports on the usage/applicability of the technical standards, guidelines and manuals are prepared. 3-1 Engineers of 40 offices are trained for planning and design of flood control structures. 3-2 Engineers of 40 offices are trained on planning and design of sabo works. 3-3 Engineers of 40 offices are trained for construction supervision of flood control and sabo projects. 3-4 Engineers of 40 offices are trained for maintenance of flood control and sabo structures.	1-1 Progress report 1-2 Records on project completion 1-3 Monitoring report 2-1 Supplementary technical standards, guidelines and manuals 2-2 Technical report, Minutes of Meeting / Records of Discussion, Letter Request 2-3 Technical report, Approved design plans 2-4 Reports 3-1 Record of training 3-2 Record of training 3-3 Record of training 3-4 Record of training	1. Support from relevant offices in DPWH and other agencies/organizations is sustained. 2. DPWH regional, district engineering and project management offices observe the technical standards, guidelines and manuals. 3. Trained staff continue working for DPWH and develop expertise in flood control and sabo engineering.

4. Information Management System is established for a more effective flood management function of DPWH.	4-1 Network with other related agencies/organizations are established for improved data sharing and coordination. 4-2 Coordination meetings /seminars on flood and sabo management are held with other related agencies/organizations at least once a year. 4-3 Adequate data and information are collected, analyzed and compiled in the database. 4-4 Annual Report is submitted at the end of the year. FCSEC Bulletin is published twice a year.	4-1 Memorandum of Agreement, Network Flowchart 4-2 Records/materials of seminars 4-3 Updated database 4-4 Inclusion in the DPWH Annual Report and publication of FCSEC Bulletin	
5. DPWH creates the internal mechanism to sustain the development of technology and organization in the field of flood control and sabo engineering.	5-1 Resolutions in support of the project objectives/goals are approved by the JCC. 5-2 Plan/document on the sustainability of the project gains is submitted to and approved by DPWH management.	5-1 Approved resolutions 5-2 Approved plan/document	
(Activities) 1-1 Collect available data/information regarding the selected pilot sites through survey and investigation, and interviews with local residents. 1-2 Formulate Master Plan(s) for pilot rivers. 1-3 Conduct Feasibility Studies on the pilot projects identified in the Master Plan(s). 1-4 Conduct hydraulic experiments for the pilot projects. 1-5 Conduct detailed design of the pilot projects. 1-6 Supervise the construction of the pilot projects. 1-7 Conduct post evaluation of the completed pilot projects. 1-8 Prepare/submit reports. 2-1 Conduct field survey and investigation including disaster survey. 2-2 Conduct hydraulic experiments for other offices/organizations' technical requirements and to further improve the technical standards, guidelines and manuals. 2-3 Monitor usage/applicability of the technical standards, guidelines, manuals and other outputs of the project. 2-4 Make reports and recommendations. 3-1 Continue training on structure planning & design, construction supervision and maintenance. 3-2 Commence training on planning and design of sabo works. 3-3 Evaluate the training. 4-1 Conduct coordination meetings/seminars with related agencies/organizations regarding flood and sabo management. 4-2 Issue bulletins and annual reports. 4-3 Accumulate and compile data and information. 5-1 Hold consultative meetings regularly to strengthen the internal mechanism. 5-2 Prepare a plan/document on the sustainability of the project gains.		(Input) [Philippine side] ▪ Assignment of a sufficient number of counterpart personnel ▪ Assignment of administrative support staff ▪ Buildings/facilities ▪ Expenses necessary for the implementation of the project and for operation and maintenance of building and equipment [Japanese side] ▪ Long-term experts; Chief Advisor Coordinator Sabo Engineering River Engineering ▪ Short-term experts; Sediment discharge analysis Run-off analysis Hydraulic experiments Feasibility studies of the pilot projects Other fields as required ▪ Training of counterpart personnel in Japan and/or third countries; ▪ Provision of equipment Equipment for surveying and updating manuals Equipment for hydraulic experiments and research Equipment for establishing an information filing and dissemination system	1. A sufficient number of counterpart and technical/administrative support staff are secured. 2. Maintenance and other operating expenses are released on time. (Pre-conditions) 1. DPWH Executive Committee and top management commit full support to the project. 2. DPWH commits to make FCSEC a permanent organization.