

Annex 10.

Revised Project Design Matrix for the Integrated Sediment-Related Disaster Management Project for Volcanic Areas (ISDM)

Project name : The Integrated Sediment-Related Disaster Management Project for Volcanic Areas

Duration : 5 Years from April 1, 2001

Project Area : Whole country, especially the four model project areas mentioned below

Target group : Residents in hazardous areas of sediment-related disasters

Date: December 18, 2003

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>Super Goal Damage by volcanic sediment-related disasters to human lives, assets and environment in volcanic areas in Indonesia is reduced</p>			
<p>Overall Goal Integrated sediment-related disaster mitigation measures are implemented in hazardous areas</p>	<ol style="list-style-type: none"> 1) No. of the projects implemented according to the model established in the model area 2) Variety of disaster mitigation measures participated by trainees / counterparts 3) No./status of disaster prevention committees and voluntary evacuation drills by the villagers and opinions of residents 	<p>Report from Ministry of Settlement and Regional Infrastructure (MSRI) Report from MSRI The results of social survey, questionnaire, site inspection</p>	<p>Government policy on disaster mitigation measures does not change drastically</p>
<p>Project Purpose Engineers involved in disaster mitigation and local residents become able to plan and implement disaster mitigation measures to reduce the impacts of sediment-related disasters on villages in volcanic areas</p>	<ol style="list-style-type: none"> 1) Technical guidelines for integrated sediment-related disaster mitigation measures are established and disseminated 2) No. of the trainees assigned to the disaster management project or related section 3) Status of peoples' awareness on disaster mitigation in model areas 	<p>Report from MSRI Report from MSRI The results of social survey, questionnaire, site inspection</p>	<p>Budgets for disaster mitigation projects are allocated properly</p>
<p>Outputs 1) Planning and implementation methodologies of sediment-related disaster mitigation measures are established through the cooperation between engineers on disaster mitigation and local residents (Establish integrated sediment-related disaster management model)</p>	<ol style="list-style-type: none"> 1) Status of utilizing hazardous points maps and hazard maps 2) Status of utilizing disaster prevention and evacuation criteria 3) Comparison of existing sediment-related disaster mitigation works and integrated disaster mitigation model works in view of cost-effectiveness and cost-benefit 4) Status of damage and robberies of facilities and materials of sediment-related disaster mitigation works 5) No. of protected people and No. of plans and implemented works of Sabo facilities equipped with additional functions 6) No. of meetings held with local residents related to model works 	<p>Project report, site inspection, questionnaires etc. Project report, site inspection, questionnaires etc. Project report The results of site inspection Project report Project report</p>	<p>Trained sediment-related disaster mitigation works engineers keep working</p>

		INPUT		
		The Government of Japan	The Government of Indonesia	
1	<p>Activities (Establish integrated sediment-related disaster management model)</p> <p>(1) Conduct site surveys to obtain detailed data on local conditions and make disaster management plans</p> <p>(2) Hold meetings to exchange views on disaster mitigation measures</p> <p>(3) Form disaster management community organizations and establish systems to escape from sediment-related disasters</p> <p>3-1 Develop hazardous points maps and hazard maps</p> <p>3-2 Establish observation system on hazardous points</p> <p>3-3 Develop criteria on precautions and escape</p> <p>3-4 Develop methodology of precautions and escape</p> <p>(4) Through disaster management community organizations, plan and implement disaster management measures to contribute to improvement of the rural living standard in cooperation with local residents, NGOs, and local governments *1</p> <p>4-1 Plan and establish the management systems for sediment gathering</p> <p>4-2 Plan and implement measures for conservation of hill slope environment</p> <p>4-3 Plan and implement measures for conservation of river bank environment</p> <p>(5) Establish management systems of local communities and governments for established sediment-related disaster mitigation facilities</p> <p>(6) Develop guidelines for implementing integrated sediment-related disaster mitigation measures</p>	<p>1 Long-term Experts 1) Chief Advisor 60 M/M</p> <p>2) Coordinator 60 M/M</p> <p>3) Sediment-related disaster mitigation measures 60 M/M</p> <p>4) Regional disaster mitigation 60 M/M</p> <p>5) Disaster information 60 M/M</p> <p>6) Sabo planning 60 M/M</p> <p>2 Short-term Experts As required</p> <p>3 Equipment</p> <p>4 C/P training</p> <p>5 Facilities</p> <p>* 1 The model areas for conducting planning and designing of integrated sediment-related disaster mitigation measures are: 1) Mt. Merapi Model Area, 2) Mt. Agung Model Area, 3) Palu Model Area, 4) West Sumatra Model Area</p> <p>The model areas for implementing model works of integrated sediment-related disaster mitigation measures are: 1) Mt. Merapi Model Area, 2) Mt. Agung Model Area</p>	<p>1 Counterparts 1) Project Manager 60 M/M</p> <p>2) C/P Sediment-related disaster mitigation measures 360 M/M</p> <p>3) C/P Regional disaster mitigation 360 M/M</p> <p>4) C/P Disaster information 360 M/M</p> <p>5) C/P Sabo planning 120 M/M</p> <p>6) Counterparts for the model sites 5 C/Ps per site 300M/M × 4 sites</p>	<p>C/Ps are assigned properly</p> <p>No large-scale sediment-related disasters occur during the implementation of the model projects</p> <p>Budget for STC is allocated as planned</p>
2	<p>(Establish local organizations and systems for disaster mitigation)</p> <p>(1) Conduct awareness raising activities and campaigns for sediment-related disaster mitigation</p> <p>(2) Conduct education on disaster mitigation in cooperation with schools</p> <p>(3) Establish the working committee for disaster mitigation to be composed of local residents, NGOs, engineers of central/local governments</p> <p>(4) Support to establish Sabo organizations</p>	<p>* 1 The model areas for conducting planning and designing of integrated sediment-related disaster mitigation measures are: 1) Mt. Merapi Model Area, 2) Mt. Agung Model Area, 3) Palu Model Area, 4) West Sumatra Model Area</p> <p>The model areas for implementing model works of integrated sediment-related disaster mitigation measures are: 1) Mt. Merapi Model Area, 2) Mt. Agung Model Area</p>	<p>2 Facilities</p> <p>2-1 Office and work space for Japanese experts</p> <p>2-2 Space necessary for installation of the donated equipment</p> <p>2-3 Experimentation fields, laboratories and training rooms</p> <p>2-4 Land, buildings, facilities and equipment necessary for the Project</p> <p>3 Local Cost Project implementation and management costs</p>	

<p>3 (Train engineers in disaster mitigation)</p> <ol style="list-style-type: none"> (1) Train engineers through model works at model sites (2) Train engineers through the training programs established at Sabo Technical Centre (3) Develop criteria for qualified engineers in disaster mitigation <p>4 (Establish training programs for engineers)</p> <ol style="list-style-type: none"> (1) Establish training courses to distribute the concept of integrated sediment-related disaster mitigation measures with the cooperation of Gadjah Mada University (2) Develop and revise curriculum of the training (3) Develop training materials of the training (4) Secure lecturers for the training courses (5) Establish the system to monitor the results of the training <p>5 (Establish methods of disaster rehabilitation measures of devastated areas)</p> <ol style="list-style-type: none"> (1) Give guidance on disaster investigation methods (2) Give guidance on methods of disaster rehabilitation measures of devastated areas (3) Give guidance on rehabilitation measures of damaged facilities (4) Give guidance on monitoring system for secondary disasters <p>6 (Develop popular rainfall gauges etc.)</p> <ol style="list-style-type: none"> (1) Develop popular rainfall gauges etc. (2) Make a plan on distribution of popular rainfall gauges etc. <p>7 Establish database system for Sabo information</p> <ol style="list-style-type: none"> (1) Collect and analyse information on sediment-related disasters in Indonesia (2) Develop database system for Sabo information (3) Establish management and maintenance systems for Sabo database (4) Develop Internet Homepage to publicise the Project outputs (5) Establish the library "Yokota Library" 		<p>Preconditions</p> <p>Model projects are accepted by local residents</p>
---	--	---