

Evaluation criterion	Evaluation Question		Required information/ data (Table of achievement)	Information source	Findings															
	Main Question	Sub Question																		
Effectiveness	Achievement of Outputs			<ul style="list-style-type: none"> (Table of achievement) 	(See the Table of Achievement attached)															
	<p>Is the Project Purpose achieved? (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>	<p>Are technical guidelines for integrated sediment-related disaster mitigation measures established and disseminated?</p>	<ul style="list-style-type: none"> Report from Ministry of Public Works 	<p>Following 4 kinds of technical guidelines are under preparation.</p> <p>1) First draft of the Overall Implementation Plan of ISDM for Mt. Merapi Model Area, 2) First draft of guideline on warning and evacuation system (manual on warning and evacuation criteria), 3) First draft of the guideline on warning and evacuation system (manual on hazard warning system), 4) First draft of the guideline on warning and evacuation system (making hazard map of sediment-related disaster).</p> <p>These drafts of technical guidelines will be developed till March 2006 (by the end of the Project). However, in a sense that the guidelines can be applied properly not only in the model areas but also in other sediment-related disasters prone areas, application, verification and modification of the draft guidelines are necessary for dissemination.</p> <p>Numbers of participants by course and the results of the questionnaire survey to the ex-trainees are as follows.</p> <table border="1"> <thead> <tr> <th>Course</th> <th>Number of participants</th> <th>Persons answered to the questionnaire</th> <th>Persons who are utilizing the matters learned*1</th> </tr> </thead> <tbody> <tr> <td>OJT (On-the-Job Training) course</td> <td>25</td> <td>17</td> <td>70.6 %</td> </tr> <tr> <td>WIDE (Water Induced Disaster Engineering) course</td> <td>104</td> <td>11</td> <td>60.0 %</td> </tr> <tr> <td>MPBA (Natural Disaster Management) course</td> <td>82</td> <td>60</td> <td>63.3 % *2</td> </tr> </tbody> </table> <p>Remarks: *1= Percentage who are utilizing the matters learned at the training course very frequently and frequently. *2= In case of graduates (30 persons)</p>	Course	Number of participants	Persons answered to the questionnaire	Persons who are utilizing the matters learned*1	OJT (On-the-Job Training) course	25	17	70.6 %	WIDE (Water Induced Disaster Engineering) course	104	11	60.0 %	MPBA (Natural Disaster Management) course	82	60	63.3 % *2
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	<p>Number of the trainees assigned to the disaster management project or related section</p>	<ul style="list-style-type: none"> Report from Ministry of Public Works 		<p>These training courses were conducted as planned in term of frequency and number of participants. And ex-trainees are utilizing the matters learned at the training courses relatively in good frequency according to the results of the questionnaire survey to the trainees.</p> <p>Because the Project is under implementation, survey on peoples' awareness is not yet done. The survey will be conducted by the end of the Project. Therefore it can not be said surely about degree of improvement of peoples' awareness on disaster mitigation in model areas at present. Only, according to the results of the interview with a chief of village in the Merapi model area, village people participated well for the construction work of a training dyke (structure for preventing overflow of debris) and peoples' awareness is improved because of the project activities. They are waiting for establishment of a warning and evacuation system, and for practicing the warning and evacuation system. They are ready to participate in the practice.</p>																
	<p>Status of peoples' awareness on disaster mitigation in model areas</p>		<ul style="list-style-type: none"> The results of social survey, questionnaire, site inspection 																	

<p>Contribution of Outputs to achieve Project Purpose.</p>	<p>Were the Outputs enough to achieve the Project Purpose? Were its no wonder in the logic that "the Project Purpose would be achieved if all the Outputs were achieved?"</p>	<p>Opinions of persons concerned</p>	<p>Executive staff of General Directorate of Water Resources of the Ministry of Public Works and STC, C/Ps, Japanese experts</p>	<p>It seems that the outputs of the Project are enough to achieve the Project Purpose.</p>
<p>Factors hampered to achieve the Project Purpose.</p>	<p>Are there any other factors influenced to the effectiveness of the Project?</p>	<p>Opinions of persons concerned Information on project implementation process Number of persons changed or resigned, and its reasons</p>	<p>Project progress reports Executive staff of General Directorate of Water Resources of the Ministry of Public Works and STC, C/Ps, Japanese experts Data of the Project Executive staff of General Directorate of Water Resources of the Ministry of Public Works and STC, C/Ps, Japanese experts</p>	<p>Having common understanding on the sediment-related disaster between ex-trainees and STC, a network on sediment-related disaster information is created.</p>
<p>Overall Evaluation of the Effectiveness</p>	<p>Degree of influence by personnel change or resignation of C/Ps</p>	<p>Other factors influenced.</p>	<p>Project progress reports Executive staff of General Directorate of Water Resources of the Ministry of Public Works and STC, C/Ps, Japanese experts</p>	<p>Change of technical C/Ps is minimum, some C/Ps resigned because they reached retiring age. When the Ministry of Settlement and Infrastructure Development was changed to the Ministry of Public Works, there was some period of absence of some C/Ps till successors were assigned. However, these matters did not give negative influence so much for achieving the Project Purpose.</p>
<p>Overall Evaluation of the Effectiveness</p>	<p>Knowledge and skills of the engineers involved in disaster mitigation have been strengthened through participating 3 kinds of training courses under the Project. They are utilizing the matters learned at the training courses relatively in good frequency.</p>	<p>Opinions of persons concerned</p>	<p>Project progress reports Executive staff of General Directorate of Water Resources of the Ministry of Public Works and STC, C/Ps, Japanese experts</p>	<p>There is opinion that ISDM is a new concept and less experience, therefore time is necessary to formulate and establish this ISDM concept.</p>
<p>Overall Evaluation of the Effectiveness</p>	<p>Following 4 kinds of technical guidelines are under preparation, and these drafts of technical guidelines will be developed till March 2006 (by the end the Project). However, in a sense that the guidelines can be applied properly not only in the model areas but also in other sediment-related disasters prone areas, application, verification and modification of the draft guidelines are necessary for dissemination.</p>	<p>Opinions of persons concerned</p>	<p>Project progress reports Executive staff of General Directorate of Water Resources of the Ministry of Public Works and STC, C/Ps, Japanese experts</p>	<p>There is opinion that ISDM is a new concept and less experience, therefore time is necessary to formulate and establish this ISDM concept.</p>
<p>Overall Evaluation of the Effectiveness</p>	<p>In regard to the peoples' awareness on disaster mitigation in model areas, the residents in the Merapi model area, peoples' awareness is improved because of the project activities according to the results of the interview with the chief of a village.</p>	<p>Opinions of persons concerned</p>	<p>Project progress reports Executive staff of General Directorate of Water Resources of the Ministry of Public Works and STC, C/Ps, Japanese experts</p>	<p>There is opinion that ISDM is a new concept and less experience, therefore time is necessary to formulate and establish this ISDM concept.</p>
<p>Overall Evaluation of the Effectiveness</p>	<p>As a whole, the Project Purpose, which is "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", is not fully achieved yet.</p>	<p>Opinions of persons concerned</p>	<p>Project progress reports Executive staff of General Directorate of Water Resources of the Ministry of Public Works and STC, C/Ps, Japanese experts</p>	<p>There is opinion that ISDM is a new concept and less experience, therefore time is necessary to formulate and establish this ISDM concept.</p>
<p>Overall Evaluation of the Effectiveness</p>	<p>Considering the fact that some Outputs of the Project are not fully achieved yet and the Project Purpose will not be achieved fully by the end of the Project, we may concluded that the effectiveness of the Project is moderate.</p>	<p>Opinions of persons concerned</p>	<p>Project progress reports Executive staff of General Directorate of Water Resources of the Ministry of Public Works and STC, C/Ps, Japanese experts</p>	<p>There is opinion that ISDM is a new concept and less experience, therefore time is necessary to formulate and establish this ISDM concept.</p>

Evaluation criterion	Evaluation Question		Required information/ data (see table of achievement attached)	Information source	Findings
	Main Question	Sub Question			
Efficiency	Are the production situations of the Outputs appropriate? (Results of verification on achievement of the Outputs) Were quality, quantity and timing of inputs to the Project appropriate compared to the Outputs achieved by the Project?	Appropriateness about number, specialty, capability, period, timing of dispatch of Japanese experts.	<ul style="list-style-type: none"> Record of dispatch of Japanese experts Opinions of persons concerned 	<ul style="list-style-type: none"> Data of the Project C/Ps, Japanese experts 	(See table of achievement attached) According to the opinions of C/Ps and Japanese experts, dispatch of long-term and short-term experts were appropriate mostly. In regard to the dispatch of long-term experts, it seems more effective if more experts in the field of social analysis like people awareness investigation and promotion of good coordination among local communities, local governments and central government etc., base on the ISDM concept, because it is inevitable to have appropriate communication among them for formulating suitable regional disaster mitigation system. In regard to short-term experts, there were cases that several short-term experts dispatched at same time, and also timing of dispatch were not well appropriate with the schedule of C/Ps. According to the opinions of C/Ps and Japanese experts, the provisions of equipment were conducted appropriately.
		Appropriateness about kind, quantity and timing of installation of equipment.	<ul style="list-style-type: none"> Record of procurement of equipment, Situation of use of equipment Opinions of persons concerned 	<ul style="list-style-type: none"> Data of the Project C/Ps, Japanese experts 	
		Appropriateness about number, contents, period and timing of C/P trainings in Japan.	<ul style="list-style-type: none"> Record of C/P trainings in Japan Opinions of persons concerned 	<ul style="list-style-type: none"> Record of C/P trainings in Japan C/Ps, Japanese experts 	According to the opinions of C/Ps and Japanese experts, C/P trainings in Japan were conducted appropriately in general. There is an opinion that the training in Japan is a best opportunity to observe real situations of Sabo that Japanese experts say and significant. In addition, it is important for not only introducing and copying the technologies of Japan to Indonesia but also for adjusting and developing technologies learned at training in Japan suitable for application in Indonesia. The number of C/Ps is 27 and was increased from 24 at the time of mid-term evaluation (December 2003). According to the opinions of the Japanese experts, some experts think that the number of C/Ps is not sufficient. But C/Ps think that the number of C/Ps is appropriate. Most of C/Ps have assigned continuously for the Project, except retirement by age and transfer to the other position. And most of C/Ps have good capability and good at English.
		Appropriateness about number, timing of assignment and capability of C/Ps.	<ul style="list-style-type: none"> Record of assignment of C/Ps Opinions of persons concerned 	<ul style="list-style-type: none"> List of C/P assigned C/Ps, Japanese experts 	According to the opinions of C/Ps and Japanese experts, facilities such as building and office spaces are appropriate.
	Appropriateness about quality, quantity and usefulness of building and facilities utilizing for	<ul style="list-style-type: none"> Situation of building and facilities utilizing by the Project. Opinions of persons 	<ul style="list-style-type: none"> Situation of facilities and equipment C/Ps, Japanese experts 		