

Other positive and negative impacts of the Project.	Impacts in the model areas	Opinions of persons concerned	Executive staff of the Ministry of Public Works and STC, C/Ps, Japanese experts	<p>important aspect to achieving the Overall Goal.</p> <ul style="list-style-type: none"> A Sabo facility "obiko" for stabilizing sediment in riverbed was constructed under the Project, and local people uses this facility as a bridge. And road connected this Sabo facility was paved partially, and after then, local government also paved a part of road copying the method used by the Project. Local residents created a rule for the evacuation in case that rainfall continues more than 3 hours by themselves in the West Sumatra model area.
Overall Evaluation of the Impacts	<p>Impacts at outside of the model areas</p> <p>Other positive and negative effects or impacts</p>	<p>Opinions of persons concerned</p> <p>Opinions of persons concerned</p>	<p>Executive staff of the Ministry of Public Works and STC, C/Ps, Japanese experts</p> <p>Executive staff of the Ministry of Public Works and STC, C/Ps, Japanese experts</p>	<p>Ex-trainees of the WIDE course planned and implemented the seminars on disaster prevention awareness in 2002 in Keburnen and Banyumas regencies. Around 60 to 100 officials of respective regencies participated in the respective seminars.</p>
<p>Expectation of achievement of Overall Goal</p> <p>Several technical guidelines will be developed by the Project through the activities in the model areas, and capacity development of engineers who are working in central government and local governments have been strengthened. Basis of a model can be established under the Project. Still there remains necessity to finalize and accomplish technical guidelines to be able to be applied in hazardous areas other than the model areas.</p> <p>The ISDM concept is introduced in the JBIC-financed projects for Mepapi and Bawakaraeng areas, and also in the Bahorok project, which is financed by the central government (total 3 projects). Implementation of these projects will start in near future. It is expected that ex-trainees and C/Ps under the Project will participate in these projects and utilize knowledge and skills learned at the Project.</p> <p>A draft model of establishment of disaster prevention committees and evacuation drills by the residents or community will be developed. As mentioned above, there remains necessity to finalize and accomplish this model to be able to be applied in hazardous areas other than the model areas.</p> <p>Other impacts</p> <ul style="list-style-type: none"> A Sabo facility "obiko" for stabilizing sediment in riverbed was constructed under the Project, and local people uses this facility as a bridge. And road connected this Sabo facility was paved partially, and after then, local government also paved a part of road copying the method used by the Project. Local residents created a rule for the evacuation in case that rainfall continues more than 3 hours by themselves in the West Sumatra model area. Ex-trainees of WIDE course planned and implemented the seminars on disaster prevention awareness in 2002 in Keburnen and Banyumas regencies. Around 60 to 100 officials of respective regencies participated in the respective seminars. 				

Evaluation criterion	Evaluation Question		Required information/ data	Information source	Findings														
	Main Question	Sub Question																	
Sustainability	Importance of disaster management for volcanic areas in National Development Plan and other related policies.	Importance and recognition of the Project at the Ministry of Public Works. Will political support to the Project be continued?	<ul style="list-style-type: none"> National Development Plan and other related policies Opinions of persons concerned 	<ul style="list-style-type: none"> National Development Plan and other related policies Executive staff of General Directorate of Water Resources of the Ministry of Public Works and STC 	<p>Natural disaster happens very frequently and there are many disaster prone area in Indonesia. The president of Indonesia expressed a policy on National Movement Partnership and Water Resources Conservation in April 2005, which has aim to conserve water resources. Several integrated programs have been started and Sabo technology is a important tools for control erosion and sediment-related disaster. Importance of disaster management in the national policies will remain in the viewpoints related with water resources conservation.</p> <p>By recognizing importance of the Project, the Ministry of Public Works allocated and increased budget to STC during the project period. And Sub-directorate of Natural Disaster and also Sub-directorate of Conservation were newly created in Directorate of River, Lake and Reservoir of the General Directorate of Water Resources of the Ministry of Public Works. These sub-directorates have responsibility on disaster prevention and countermeasure for disaster occurred in relation with Sabo technology. Considering these facts, support by the Ministry of Public Works on the Project will be continued.</p> <p>STC has relatively good capacity on management and operation of the Project, and there are experienced engineers.</p>														
		Dose organizations concerned with the Project (STC, etc.) have capability to continue and manage the project activities?	<ul style="list-style-type: none"> Staff assignment and continuity Opinions of persons concerned 	<ul style="list-style-type: none"> Staff assignment Executive staff of General Directorate of Water Resources of the Ministry of Public Works and STC, C/Ps, Japanese experts 	<p>Budget allocation to STC during the project period is as follows.</p> <table border="1"> <thead> <tr> <th colspan="5">(Unit: Rupia)</th> </tr> <tr> <th>2001</th> <th>2002</th> <th>2003</th> <th>2004</th> <th>2005</th> </tr> </thead> <tbody> <tr> <td>530,613,000</td> <td>969,583,000</td> <td>1,257,149,000</td> <td>2,773,679,000</td> <td>1,899,868,000</td> </tr> </tbody> </table> <p>Amount of budget was increased from year 2001 to 2004 significantly. Based on this tendency, it is expected that Indonesian government will allocate budget to STC steadily in the year ahead.</p> <p>As mentioned already, STC was formerly under the Directorate of Technical Guidance of the Directorate General of Water Resources, and now STC is under the Directorate of River, Lake and Reservoir of the Directorate General of Water Resources. It is necessary to add roles for STC in order to be able to have functions such as support activities to local governments in regard to Sabo technology (prevention of</p>	(Unit: Rupia)					2001	2002	2003	2004	2005	530,613,000	969,583,000	1,257,149,000	2,773,679,000
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2001	2002	2003	2004	2005															
530,613,000	969,583,000	1,257,149,000	2,773,679,000	1,899,868,000															
Financial situation of STC	<ul style="list-style-type: none"> Data of financial situation of STC Opinions of persons concerned 	<ul style="list-style-type: none"> Data of budget allocation Executive staff of General Directorate of Water Resources of the Ministry of Public Works and STC, C/Ps, Japanese experts 	<p>Dose STC have appropriate organizational and institutional system for continuing the activities of the Project after the termination of JICA's</p>																

				<p>sediment-related disaster) and implement countermeasures after occurrence of disaster. At present, discussion about status of STC for becoming more permanent organization is underway in the Ministry of Public Works.</p> <p>Therefore, it is expected that STC will have appropriate organizational and institutional system for continuing the activities of the Project after the termination of JICA's cooperation.</p> <p>Indonesian government made efforts to increase budget to STC in recent years and organizational status of STC is expected to become a permanent one in the Directorate General of Water Resources.</p> <p>Therefore, it is expected that STC can secure budget necessary for activities on disaster management in the country.</p> <p>Generally, C/Ps have good capacity and experience on Sabo technology. As of technologies transferred under the Project, methodology of ISDM is still under development. Also non-structure measures for disaster prevention (soft aspect) is a part of important aspect and new aspect for them.</p> <p>Therefore, C/Ps have good capacity to conduct technical transfer to other staff of STC and staff of other related organizations, but still more strengthening of their capacity is desired.</p> <p>There is an anxiety about age of C/Ps. There are several C/Ps who have more than 50 years old, and age of retirement is very near future (age of retirement of the government official is 56). Therefore technology transfer from those C/Ps to younger staff and also capacity development of younger generation will be necessary.</p> <p>STC is a training and technology development center at present and dose not have role for extend technologies directly to local governments and local communities at present. Therefore, it is necessary to add function mentioned above in order to extend the ISDM technology to other sediment-related disaster prone areas in Indonesia.</p> <p>Most of equipment were procured in Indonesia and there is no special equipment which is difficult to maintain. According to the opinions of C/Ps and Japanese experts, equipment provided by the Project will be maintained properly.</p>
cooperation?	<p>After termination of JICA's cooperation, STC can secure budget necessary for activities on disaster management in the country?</p>	<ul style="list-style-type: none"> • Opinions of persons concerned 	<p>Japanese experts</p> <ul style="list-style-type: none"> • Executive staff of General Directorate of Water Resources of the Ministry of Public Works and STC, C/Ps, Japanese experts • Executive staff of STC, C/Ps, Japanese experts 	
Will techniques transferred by the Project become established?	<p>Do C/Ps have necessary capacity to conduct the activities on disaster management?</p>	<ul style="list-style-type: none"> • Opinions of persons concerned 		
	<p>Will C/Ps utilize and extend technologies transferred by the Project to other sediment-related disaster prone areas in Indonesia?</p> <p>Will equipment procured by the Project be maintained well?</p>	<ul style="list-style-type: none"> • Opinions of persons concerned • Opinions of persons concerned 	<ul style="list-style-type: none"> • Executive staff of STC, C/Ps, Japanese experts • C/Ps, Japanese experts 	