Country Name

Republic of Indonesia

conducted by Indonesia Office: February, 2020

I. Project Outline	
Background	The Government of Indonesia has made efforts for animal disease control for a long time as a vital challenge for development of and improvement of productivity of the livestock industry. It was necessary to quickly respond to and to promptly distribute information on incidence of animal diseases. Although 8 Disease Investigation Centers (DICs) were established in the country for animal disease control, the linkage among the different types of laboratories at regional and provincial levels was weak partly due to the decentralization, which brought about insufficient establishment of the animal disease control system under DICs nationwide. Under those situations, JICA implemented a grant aid project, "The Project for Improvement of Animal Health Laboratories for Diagnosis of Avian Influenza and Other Major Diseases of Animals" (2009), aiming at newly constructing DIC in Subang and partially refurbishing existing DIC in Medan and Lampung. However, many of the staff members assigned to DIC Subang had limited practical experiences and insufficient skills on animal diseases diagnosis.
Objectives of the Project	Through technical transfer on diagnostic techniques to staff of DIC Subang, planning, implementation and feedback on diagnosis services by staff of DIC Subang, and implementation of awareness activities and technical supports to livestock relatives, the project aimed at improving quality and quantity of the animal diseases diagnosis service at DIC Subang, thereby contributing to strengthening of measures for animal disease control in West Java province (Jurisdictional area of DIC Subang). 1. Overall Goal: Measures for animal disease control in West Java province (Jurisdictional area of DIC Subang) are strengthened. 2. Project Purpose: The quality and quantity of animal diseases diagnosis service at DIC Subang are improved.
Activities of the Project	1. Project Site: DIC Subang 2. Main Activities: 1) Technical transfer on diagnostic techniques to staff of DIC Subang, 2) Planning, implementation and feedback on diagnosis services by staffs of DIC Subang, 3) Implementation of awareness activities and technical supports by staff of DIC Subang to persons involved in livestock industry such as field vets and farmers, etc. 3. Inputs (to carry out above activities) Japanese Side 1. Experts: 20 persons 2. Trainees Received: 16 persons 3. The Third Country Training: 1 person (Malaysia) 3. Local expense: utility cost, field survey cost, and 2 persons (Thailand) 4. Equipment: vehicle, microscope with CCD (Charge Coupled Device) camera and monitor, refrigerated micro centrifuge, etc. 5. Local expense: cost for local staff, project activities
Project Period	July 2011 – July 2015 Project Cost (ex-ante) 250 million yen, (actual) 221 million yen
Implementing Agency	Directorate of Animal Health (DAH), Directorate General of Livestock and Animal Health Services (DGLAHS), the Ministry of Agriculture (MOA) Disease Investigation Center Subang (DIC Subang)
Cooperation Agency in Japan	Ministry of Agriculture, Forestry and Fisheries (MAFF)

Project on Capacity Development of Animal Health Laboratory

II. Result of the Evaluation

<Special Perspectives Considered in the Ex-Post Evaluation>

• The project set "Number of sub-district where the animal disease control is monitored by DIC Subang amounts to all sub-district required in West Java province by the year of 2018." as one of the indicators to verify the achievement status of the Overall Goal "Measures for animal disease control in West Java province (Jurisdictional area of DIC Subang) are strengthened." However, according to DIC Subang, the implementing agency, because of the reasons such as the low number of animals raised, monitoring all sub-districts is not necessary. Thus, this ex-post evaluation will make a judgement on effectiveness/impact of the project, putting more weights on the Project Purpose and the continuous status of the project effects.

1 Relevance

<Consistency with the Development Policy of Indonesia at the Time of Ex-Ante Evaluation and Project Completion>

The project was consistent with Indonesia's development policy of "The Livestock Industry Development Mid-term Plan" (2010-2014) (2015-2019) focusing on establishment of novel system for animal health program as one of the prioritized areas at the time of ex-ante evaluation and at the time of project completion.

< Consistency with the Development Needs of Indonesia at the Time of Ex-Ante Evaluation and Project Completion >

The project was consistent with Indonesia's development needs of fostering staff members with practical experiences and sufficient skills on animal diseases diagnosis at DIC Subang.

<Consistency with Japan's ODA Policy at the Time of Ex-Ante Evaluation>

The project was consistent with "The Country Assistance Program for Indonesia" (2004) highlighting "democratic and equitable social development" as one of the three prioritized areas, including poverty reduction such as the improvement of public services on health care. <Evaluation Result>

In light of the above, the relevance of the project is high.

2 Effectiveness/Impact

<Status of Achievement of the Project Purpose at the time of Project Completion>

The Project Purpose was achieved by the time of project completion. In 2014, the number of animal disease diagnosis performed at DIC Subang was 61,566, and 32 kinds of animal diseases were tested (Indicator 1). 7 chiefs of laboratories acquired a capacity to provide proper final diagnosis; as a result, the time needed to give the results back to clients was shortened to the standard duration (Indicator 2). Active Surveillance was conducted in 2012 and 2014, targeting bovine brucellosis and abortion in cattle in consideration of the characteristics of the jurisdiction areas of DIC Subang and was shared with the stakeholders through opportunities such as meetings and workshops every year (Indicator 3). According to the clients' satisfaction survey conducted in 2014, the ratio of respondents who answered "satisfied" or "almost satisfied" towards the animal diseases diagnosis services at DIC Subang reached more than 90%, exceeding the target of 80% (Indicator 4).

<Continuation Status of Project Effects at the time of Ex-post Evaluation>

The project effects have been continued since the project completion. Although the number of animal disease diagnosis performed at DIC Subang had fluctuated since the project completion, the figures had been constantly over the target of 35,000. Also, the kind of the diagnosis reduced in comparison with the one at the time of project completion but continuously exceeded the target value of 16 kinds. The feedback time after the diagnosis differs according to types of diagnosis, having at least 2 days and at most 45 days. Yet, it has been within the time determined by the Standard Operation Procedure (SOP), ISO17025 and ISO9001 prepared or obtained through the project. Since the project completion, Active Surveillance have been carried out every year, exceeding the target of more than 2 times in a year. The client satisfaction survey toward the animal diseases diagnosis services at DIC Subang is conducted twice per a year, and the results always show the high level of satisfaction.

Even after the project, the staff members of DIC Subang have continued to perform technical support activities to laboratory workers, field vets and farmers through information exchange and awareness raising activities on animal health improvement due to its usefulness. Additionally, DIC Subang has undertaken preventive maintenance of testing instruments, equipment and facilities based on a manual prepared by the project.

<Status of Achievement for Overall Goal at the time of Ex-post Evaluation>

The Overall Goal has been partially achieved by the time of ex-post evaluation. Type-B/C laboratories have performed tests of animal diseases diagnoses 44 times and 14 times every year, respectively. Although the number of the tests performed has not reached the target value set by the project, it does the times determined by the laboratories. Also, according to DIC Subang, PUSKESWAN has also continued to conduct tests of animal diseases diagnosis. The number of sub-districts where the animal disease control has been monitored by DIC Subang has not reached the target figure set by the project even at once after the project. The reasons are because, although West Java has 626 sub-districts in total, some of them have lower necessity to be monitored in the first place due to the low number of animals raised and the non-occurrence of animal disease.

<Other Impacts at the time of Ex-post Evaluation>

No other positive or negative impacts were observed at the time of ex-post evaluation.

<Evaluation Result>

Therefore, as the project effects are considered to have been continued in that the monitoring for animal disease control has continued to be implemented (as indicated in the results of the indicator 3 of the Project Purpose and of the indicator 2 of the Overall Goal), the effectiveness/impact of the project is high.

Achievement of Project Purpose and Overall Goal

	Achievement of Proje	ct Purpose and Overall Goal					
Aim	Indicators	Results					
(Project Purpose)	1. The number and the kind of animal	Status of the Achievement: Achieved (Continued)					
The quality and quantity	disease diagnosis at DIC Subang becomes	(Project Completion)					
of animal diseases	nore than 35,000 samples in a year and 16 • The number of animal disease diagnosis performed at DIC Subang in 2014						
diagnosis service at DIC	kinds at the end of the Project.	was 61,566, and 32 kinds of animal diseases were tested.					
Subang are improved.		(Ex-post Evaluation)					
		• The number of animal disease diagnosis: although it had fluctuated					
		between around 60,000 and 70,000 because some of the budget of DIC					
		Subang were transferred to other programs or activities, the figures had					
		been over the target.					
		• The kind of animal disease diagnosis: it has fluctuated for the last four					
		years because some of the budget of DIC Subang were transferred to other					
		programs or activities, but it has	continuou	sly exceed	ed the targ	et over the	
		period.					
		[Implementation Status of animal disease diagnosis at DIC Subang]					
		Item / Year	2015	2016	2017	2018	
		No. of animal disease diagnosis	60,365	72,501	60,311	61,521	
		No. of kind of animal disease	17	20	22	21	
		diagnosis	17	20	22	21	
	2. The feedbacks of diagnosis (Passive	Status of the Achievement: Achieve	ed (Continu	ıed)			
	Surveillance) to the customers are returned		- (- 5114111				
	promptly in prescribed days set by the		ed the car	pacity to	provide pr	oper final	

	Project.	diagnosis; as a	result, the t	ime needed	to give th	e results	s back to	o clie	
		diagnosis; as a result, the time needed to give the results bac was shortened to standard duration (for example, bacteriolog							
		testing and hist	topathologic	al diagnosi	s: approxin	nately tv	vo week	cs, otl	
		tests such as ser	_	gnosis and p	oarasite exa	minatior	n: two da	ays).	
		(Ex-post Evaluation)							
		The feedback till		_		-	_		
		days and at mo						by SC	
		ISO17025 and ISO9001 prepared or obtained through the project.							
	3. The DIC Subang staff is ready to conduct			hieved (Co	ntinued)				
	` .	g, (Project Completion)							
		• Active Surveillance was conducted in 2012 and 2014, targeting by							
	the results to next survey) on animal health considering with livestock/poultry industry	ry the jurisdiction areas of DIC Subang. It was shared with the stakeho							
	promotion in the pilot sites more than 2								
	times/site in a year.	(2012:8 times, 2				WOLKSII	iops eve	ny ye	
	times/site in a year.	(Ex-post Evaluation		CS, 2014. 17	times)				
		• Active Surveill	*	een conduct	ed every v	vear as	indicated	d in 1	
		following table.							
							ing were transferred		
		other programs		-		_			
		target.							
		[No. of Active Sur	veillance ur	ndertaken by	DIC Suba	ng]			
		2015	201	6	2017		2013	8	
		125		176		165		9	
	4. Eighty percent (80%) of inquired	Status of the Achie	evement: Ac	hieved (Co	ntinued)				
	customers (stakeholders such as DINAS			`	,				
	staff, Field vets, and Farmers) recognize	recognize • According to a client satisfaction survey, the ratio of respondents where the satisfaction recognize • According to a client satisfaction survey, the ratio of respondents where the satisfaction recognize • According to a client satisfaction survey, the ratio of respondents where the satisfaction recognized is the satisfaction of the satisfaction recognized is the satisfaction of the satisfaction recognized is the satis							
	improvement of diagnosis services of DIC	answered "satisfied" or "almost satisfied" towards animal diagnoservices at DIC Subang increased from 87.4% in 2011 to 94.8% in 2014. (Ex-post Evaluation)							
	Subang by the end of the Project.							2014	
		 The client satisfaction survey is conducted twice per a year, and the always show the high level of satisfaction towards animal diag 							
							nimal d	liagno	
		services at DIC Subang.							
(Overall Goal)	. The number of tests performed for animal isease diagnoses at the DIC Subang, • Type-B/C laboratory: they have performed the tests for determined of times they set						l num		
Measures for animal	disease diagnoses at the DIC Subang,								
disease control in West	type-B/C laboratories and PUSKESWAN in	• PUSKESWAN:	PUSKESW	AN has con	ntinued to	conduct	tests for	r ani	
Java province the jurisdiction area of the Center increases (Jurisdictional area of DIC 10% by the year of 2018 in comparison No. of tests for animal disease diagnoses performed						1 1 4.	T		
Subang) are strengthened.		[aboratories]	or animai	disease di	agnoses p	eriorine	u by t	ype-r	
subang) are strengthened.	with that in 2013.	Facility / Year	2015	2016	2017	201	8 2	2019	
		Type-B	44	44	44		44	4	
		laboratory Type-C				1			
		laboratory	14	14	14		14	1	
	2. Number of sub-district where the animal	(Ex-post Evaluation	on) not achie	eved					
	disease control is monitored by DIC Subang	• The number of	sub-districts	where the					
	amounts to all sub-district required in West	by DIC Subang had fluctuated because DIC Subang has arranged							
	Tallicants to an sub-district reduited in West	number of the sub-districts to be monitored by considering the numbe animals raised and the occurrence status of animal disease.							
	_		animals raised and the occurrence status of animal disease. [No. of sub-districts where the animal disease control is monitored by						
	Java province by the year of 2018.	animals raised a		ie animal di	[No. of sub-districts where the animal disease control is monitore [Subang]				
	_	animals raised a [No. of sub-district Subang]	cts where th	ne animal di				1 001	
	_	animals raised a [No. of sub-district Subang]	cts where the		2015	2016	2017	201	
	_	animals raised a [No. of sub-district Subang] Total no. of su	cts where the		2015	2016 626	2017 626		
	_	animals raised a [No. of sub-district Subang] Total no. of su province	tem / Year b-districts	in West Ja	2015 va 626				
	_	animals raised a [No. of sub-district Subang] Total no. of su	tem / Year ab-districts	in West Ja	2015 va 626			62	
	_	animals raised a [No. of sub-district Subang] Total no. of suprovince No. of sub-district disease control Subang	tem / Year lb-districts tricts where is monito	in West Ja e the anim red by D	2015 va 626 nal IC 236	626	626	62	
	_	animals raised a [No. of sub-district Subang] Total no. of suprovince No. of sub-district disease control Subang Rate of sub-district	tem / Year ab-districts tricts where is monito	in West Ja e the anim red by D e the anim	2015 va 626 nal IC 236	626 358	626 245	62	
	_	animals raised a [No. of sub-district Subang] Total no. of suprovince No. of sub-district disease control Subang	tem / Year ab-districts tricts where is monito	in West Ja e the anim red by D e the anim	2015 va 626 nal IC 236	626	626	62	

The project cost and period were within the plan (ratio against the plan: 88% and 100%, respectively). The outputs were produced as planned. Therefore, the efficiency of the project is high.

4 Sustainability

<Policy Aspect>

"The Livestock Industry Development Mid-term Plan" (2015-2019) raises the establishment of novel system for animal health program as one of the prioritized areas and the "Strategic Plan 2015-2019 of the Directorate General of Livestock and Animal Health Ministry of

Agriculture, Ministry of Agriculture Regulation No.44 Year 2007 on Good Veterinary Laboratory Practice" (2015-2019) sets the improvement of the accountability and quality of public services in livestock and animal health as one of the missions. As the project aimed at improving the quality and quantity of animal diseases diagnosis service at DIC Subang, it has been backed up by the national policies. <Institutional Aspect>

There have not been any changes in the organizational setting for operating the animal diseases diagnosis service targeted by the project. DIC Subang consists of 8 laboratories, and they take their respective responsibilities such as collection of test results to issue a certificate, implementation of virus identification, and so on. 32 staff members in total have been assigned to DIC Subang, and according to DIC Subang, the number of the staff members has been sufficient, in that they have been able to fulfill the responsibilities without any major problems.

<Technical Aspect>

The staff members of DIC Subang have sustained the necessary knowledge and skills for operating the animal disease diagnosis service targeted by the project. DIC Subang has an internal training system to transfer the related knowledge and techniques among the members.

All of standards for animal diseases diagnosis (ISO9001, ISO17025, and SOP) prepared or obtained through the project have continued to be utilized even after the project completion. This is because these standards have contributed to the improvement of the quality and quantity of the animal diseases diagnosis service at DIC Subang.

<Financial Aspect>

The budget for the animal disease diagnosis service targeted by the project has been allocated from Ministry of Agriculture since the project completion. In addition, the one for preventive maintenance of testing instruments, equipment and facilities has been secured even though the budget allocation decreased after 2017 due to the inception of a new program. According to DIC Subang, the budgets have been sufficient as there have not been any major problems

(Unit: Thousand Rupiah) 2015 2016 2017 2018 2019 Item (Actual) (Actual) (Actual) (Actual) (Plan) Animal diseases 10,866,430 10,957,345 11,457,555 5,594,791 5,751,470 diagnosis service Preventive

270,000

90,200

170,000

200,000

243,000

Budget of DIC Subang

in their activities given so far. The budget will continue to be secured.

Therefore, the sustainability of the effects through the project is high.

5 Summary of the Evaluation

The project achieved the Project Purpose aiming at improving the quality and quantity of animal diseases diagnosis service at DIC Subang and partially achieved the Overall Goal aiming at strengthening measures for animal disease control in West Java province. Considering all of the above points, this project is evaluated to be highly satisfactory.

maintenance

III. Recommendations & Lessons Learned

Lessons Learned for JICA:

• This project was useful and beneficial to the Government of Indonesia. One of the reasons was because DIC Subang, an implementing agency, has already had a capacity in undertaking animal disease diagnosis at a certain level. With this background, the project aimed to further strengthen their capacity. Strengthening a capacity of an implementing agency could be one of the keys to achieve the project goal. Therefore, it is recommended that JICA do comprehensive mapping to grab the capacity of an implementing agency at the appraisal/survey stage, which leads to securing the sustainability of the project.



Animal Disease Diagnosis 1 at DIC Subang



Animal Disease Diagnosis 2 at DIC Subang

<Evaluation Result>