conducted by Vietnam Office: February, 2019

Country Name	Project on Strengthening the System and Operation on Standards and
Socialist Republic of Viet Nam	Conformance

I. Project Outline

Background	Viet Nam was facing a need to intensify efforts in standards and conformity assessment to remove technical barriers to trade (TBT), participate in the international market and attract foreign direct investment. In particular, ensuring the quality of electrical and electronic (EE) equipment was important for its high export potential and consumers' safety. However, the standards and conformance system in the field of EE equipment was developing and not adequately operated.							
	Through training and technical advice in policy planning, developing standards/regulations, accreditation, certification, and testing, the project aimed at strengthening the system and operation of organizations in charge of standards and conformance for EE equipment in Viet Nam, thereby improving the quality of EE equipment manufactured in Viet Nam and ensuring the consumers' safety.							
Objectives of the								
Project	1. Overall Goal: The quality of electrical and electronic equipment manufactured in Viet Nam is improved, and the consumers' safety is ensured.							
	2. Project Purpose: The system and operation of the Directorate for Standards, Metrology and Quality							
	(STAMEQ) and other related organizations on standards and conformance in the field of electrical and							
	electronic equipment are strengthened.							
	1. Project site: Hanoi and Ho Chi Minh							
	2. Main activities: Training and technical advice in policy planning, developing standards/regulations,							
	accreditation, certification, and testing							
Activities of the	3. Inputs (to carry out above activities) * As of Terminal Evaluation in Nov. 2012							
Project	Japanese Side Viet Nam Side							
Troject	1) Experts: 19 persons 1) Staff allocated: counterpart personnel from the							
	2) Trainees received: 45 persons implementing agencies (number not specified)							
	3) Equipment: laboratory equipment, etc. 2) Office space in Hanoi and Ho Chi Minh							
	4) Local expenses 3) Local expenses							
Project Period	November 2009 – April 2013 Project Cost (ex-ante) 350 million yen (actual) 342 million yen							
	Directorate for Standards, Metrology and Quality (STAMEQ), Ministry of Science and Technology (MOST) and							
Implementing	the following related organizations under MOST: Vietnam Standards and Quality Institute (VSQI); Bureau of							
Agency	Accreditation (BOA); Vietnam Certification Center (QUACERT); Quality Assurance and Testing Center							
	(QUATEST1); and QUATEST 3							
Cooperation Agency	Ministry of Economy, Trade and Industry							
in Japan	1711110tt y 01 1200110111y, 11ttto and industry							

II. Result of the Evaluation

<Constraints on Evaluation>

- The evaluation judgment on Effectiveness/Impact and Sustainability was made based on the limited information available from the implementing agencies.
- < Special Perspectives Considered in the Ex-Post Evaluation >
- Assessing Continuation Status of Effectiveness: Since the Indicator for the Project Purpose is not specific enough, this ex-post evaluation used selected indicators of Outputs for assessment of the status of the continuation of project effects.
- Assessing Achievement Status of Overall Goal: (1) (Target year) The project design matrix (PDM; a matrix representing the project framework) does not mention the target year for the Overall Goal. Since the Ex-ante Evaluation Report states that the ex-post evaluation would be conducted in three to five years after project completion, this ex-post evaluation interprets that the ex-ante evaluation would have supposed the target year for the Overall Goal to be 2018, five years after project completion in 2013.
 - (2) (Target value) PDM does not mention the target values for the quantitative indicators. This ex-post evaluation judged each indicator "mostly achieved" when the actual value increased.

Relevance

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

This project was consistent with the Viet Nam's development policies at the times of both ex-ante evaluation and project completion, such as "Socio-Economic Development Strategy (SEDS)" (2001-2010) and SEDS (2011-2020) that both hold at the front its vision/general objective of becoming basically an industrialized country by 2020. Also, MOST was implementing "National Program on Enhancing Productivity and Quality of Products, Goods produced by Vietnamese Enterprises to the Year 2020" (2010-2020).

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

The project was consistent with the Viet Nam's development needs at the time of ex-ante evaluation as described in "Background" above. The need continued to the time of project completion as STAMEQ and other related organizations remained relevant as being responsible for the standards and conformance system.

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

"Country Assistance Program for Viet Nam" (2009) holds "Promotion of Economic Growth and Strengthening of International Competitiveness" as one of its four priority areas.

<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. Based on the strengthened activities of the counterpart organizations in developing standards (by VSQI), accreditation (by BOA), certification (by QUACERT), and testing (by QUATEST1 in Hanoi and QUATEST3 in Ho Chi Minh), the ex-post evaluation supports the Terminal Evaluation's view that STAMEQ and other related organizations showed the notable improvement of their capabilities on standards and conformance as compared with international standards and recommendations. STAMEQ became the national member body of the IEC System of Conformity Assessment Schemes for EE Equipment and Components (IECEE) in 2012. The project completed documentation for application for the IECEE Certification Body (IECEE/CB) in which QUACERT was expected to become a National Certification Body (NCB) and QUATESTs to become Certification Body Testing Laboratories (CBTLs).

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

The project effects have continued to the time of ex-post evaluation. The information collected from the implementing agencies show that the standard and conformance system strengthened under this project continues to be operating or further expanded in scope by the counterpart organizations (see the table below). However, the application for the IECEE/CB Scheme did not take place after project completion as the Vietnamese side has not designated QUACERT as an NCB yet due to political and diplomatic considerations, though it continues to be the Viet Nam's main certification body. Accordingly, QUATEST1 and QUATEST3 (Electricity Testing Laboratory) have not yet applied for CBTLs¹. Nevertheless, this issue may not largely affect the degree of continuation of project effects as it is a small portion among the project Outputs.

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

Achievement for the Overall Goal at the time of ex-post evaluation is unverifiable since sufficient information to verify the indicators (on improved quality of Viet Nam-made EE equipment and related consumers' safety) is not available. Regarding claims caused by EE equipment (Indicator 1), the number of claims received by QUATEST3 decreased from 2016 to 2017, while the number is generally larger after project completion than during project implementation reportedly as it has wider variety of testing services, which makes it difficult to use this indicator for judging the achievement status of the Overall Goal. No information on the other Indicators is available.

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

No negative impacts of the project were confirmed.

<Evaluation Result>

Therefore, the effectiveness/impact of the project is fair.

	Ac	chievement of Project Purpose and Overall Goal								
Aim	Indicators	Results								
(Project Purpose)	Improvement of	Status of the Achievement: achieved (mostly continued)								
The system and	capabilities of STAMEQ	(Project Completion)								
operation of the	and other related	Standards development capacity: The number of Viet Nam national standards (TCVN)								
STAMEQ and other	organizations on standards	developed by VSQI based on the latest International Electrotechnical Commission (IEC)								
related organizations on	and conformance as	standards increased from 52 in 2008 to 80 in 2013.								
standards and	compared with	Accreditation capacity: The scope of accreditation for EE testing laboratories and								
conformance in the field	international standards	electro-magnetic compatibility (EMC) testing laboratories by BOA was enhanced by using								
of electrical and	and recommendations	the equipment provided under this project. BOA also obtained a member status with								
electronic equipment		Product Certification sector at Pacific Accreditation Cooperation (PAC) Multilateral								
are strengthened.		Recognition Arrangement (MLA) in addition to its existing member status with								
		Management System sector.								
		Certification capacity: The number of product certificates issued by QUACERT was								
		accumulated from 259 (55 EE products) in 2009 to 621 (85 EE products) in 2012.								
		Preparation of documentation for application for the IECEE/CB Scheme was completed.								
		Testing capacity: QUATEST1 and QUATEST3 became able to execute tests on all of the								
		13 mandatory EE equipment using the equipment provided under this project. As for								
		QUATEST3, both the range and field of testing have been enhanced not only for 13								
		mandatory products but for similar products as well. The number of testing services offered								
		for EE products increased (see the table below).								
		(Ex-post Evaluation)								
		VSQI has improved the relations with entities at home and abroad, thus enhancing the								
		status of a national quality inspector (e.g., it has annually organized seminars on TCVN								
		application for all stakeholders, including State management entities, enterprises, sector								
		clusters under the framework of "National Program on Enhancing Productivity and Quality								
		of Products, Goods produced by Vietnamese enterprises to the year 2020" and with funding								
		from UNEP, International Copper Alliance and Australia). The stable number of TCVN is								
		published each year, and the TCVN developed so far is operating.								
		Number of TCVNs published Each year								
		2008 2011 2012 2013 2014 2015 2016 2017								
		52 45 92 80 69 69 68 74								
		BOA continues to be a member of PAC MLA in Product Certification Sector. In addition, it								

¹ QUATEST3 has been preparing document to register as a CBTL under Korea Testing Laboratory (KTL), which is an NCB of Korea.

			expanded its scope to	PAC	MLA	for Glo	bal Ga	ıp (2015)	and En	vironm	enta	Manag	ement	
			Systems (2016).											
	ļ		QUACERT continues						ation bo	dy. Ho	wev	er, appli	cation	
			for the IECEE/CB Sci											
			Accumulated number	_										
				200	09 2	2011	2012 (-Oct)	2013	2014	201	15	2016	2017	
			Total cumulative		259	450	62			5 1,	950	1,930	1,810	
			Of which EE products		55	88	9	618	40	8 2	289	563	682	
			QUATEST1 and QUA	TES	T3 hav	ve kept	or furt	her expai	ded the	scope	of te	sting.		
	ļ		Number of testing services offered for EE products											
	ļ				2009	2011	1 20	12 201	3 201	4 20)15	2016	2017	
			QUATEST1 (manda 13 EE equipment)	tory	5,774	4 8,79	98 13,	500 3,5	19 3,6	26 3.	,707	3,421	3,125	
			QUATEST3 (mandat	ory	4,110	0 9,65	52 8,	582 8,8	38 9,7	12 9	,658	10,018	10,110	
			13 EE equipment), including											
			- Electricity cable		4,100	0 4,20	00 4,	315 4,4	50 4,6	05 4	,788	4,856	4,803	
			sample testing	\rightarrow				265 40	20 - 4	0= 4		7.1.0		
			- Household electricity sample testing	y	10	5,45	52 4,	267 4,3	5,1	07 4	,870	5,162	5,307	
	ļ		Note: The reason why	the	numbe	r decre	ased at	QUATE	ST 1 in	2013 a	nd th	nereafter	is	
			emergence of other te	sting	entitie	s under	r local	governm	ents suc	h as ur	ıder l	local dep	artmen	
	ļ		of science and technol	_				C						
(Overall Goal)	1) Decrease in the number	(Ex-p	ost Evaluation) not a	achie										
` '		Number of claims caused by EE equipment received by QUATEST1: Every year, QUATEST1												
1 2	of claims caused by				equipr								EST1	
and electronic	_	receiv	ves a number of claims	s of E	equipr EE prod	ducts. E	loweve	er, those o	laims a	nd exp	lanat	ion by		
	electrical and electronic	receiv QUA	ves a number of claims ΓEST1 are done verba	s of E	equipr EE prod	ducts. E	loweve	er, those o	laims a	nd exp	lanat	ion by		
equipment	_	receiv QUA numb	ves a number of claims TEST1 are done verba ers are available.	s of E lly, ra	equipr EE prod ather th	lucts. H	Howeve ng reco	er, those or orded in v	laims a ritten f	nd exp	lanat	ion by		
equipment manufactured in Viet	electrical and electronic	receiv QUA numb Numb	ves a number of claims ΓEST1 are done verba	s of E lly, ra	equipr EE prod ather th	ducts. Han bei	loweveng reco	er, those or orded in v	laims a ritten f TEST3	nd exp	lanat	ion by		
equipment	electrical and electronic	receiv QUA numb Numb	ves a number of claims FEST1 are done verba ers are available. over of claims caused by 2013 2014	s of E lly, ra	equipr EE prod ather th equipr	ducts. Han bei	Howevering reco	er, those or orded in v	laims a ritten f TEST3	nd explorms. I	lanat Henc	ion by		
equipment manufactured in Viet Nam is improved, and	electrical and electronic	receiv QUAT numb Numb	ves a number of claims (FEST1 are done verbaters are available.) (See of claims caused by 2013 2014 190 2005) (See Evaluation) not verbaters are available.)	s of E lly, ra y EE 299	equipr EE prod ather th equipr 20	lucts. H nan beir ment re 15	Howevering reco	er, those or orded in v by QUA	laims a ritten f TEST3	nd explorms. I	lanat Henc	ion by		
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3 Efficiency

Both the project cost and the project period were within the plan (ratio against the plan: 98% and 100%). The Outputs of the project were produced as planned. Therefore, the efficiency of the project is high.

4 Sustainability

<Policy Aspect>

"National Program on Enhancing Productivity and Quality of Products, Goods produced by Vietnamese Enterprises to the Year 2020" is still effective at the time of ex-post evaluation.

<Institutional Aspect>

No problem is found in the organizational structure, which has not experienced major changes since project completion. The current number of staff of the counterpart organizations is generally larger than the numbers as of 2012. Those staff meets the need and are capable enough to do given tasks.

<Technical Aspect>

As mentioned in "Continuation Status of Project Effects at the time of Ex-post Evaluation" above, each of the related organizations have maintained or further expanded their functions, which indicates their sufficient skills to promote the standards and conformance system for EE

Oct.2012 2018 MOST 290 300 BOA 26 30 118 STAMEQ 200 QUACERT 102 100 QUATEST1 133 166 QUATEST3 500 625 VSOI 75 80

Number of staff allocated

Source: Each organization

equipment. Both QUATEST1 and QUATEST3 have frequently utilized the materials on testing developed under this project. QUATEST3 has issued the mechanism, regulations and guidance on training, plan formulation annually. It has always organized training, seminars, workshops and meetings on training, maintenance and enhancing technological training for staff, experts in conformity and standards for EE equipment. Also, QUATEST1 and QUATEST3 have frequently exchanged views, testing skills to maintain testing results, i.e., testing skills, testing process, testing and comparison. No problem was found on operation and maintenance of the laboratory equipment provided under this project.

<Financial Aspect>

None of the counterparts provided clear financial data on yearly basis for expenditure needed for operations of standard and

conformance system. In replace of that, QUATEST1 informed about the budget for the three years from 2015 to 2017. This center spends over 100 million VND/ year on average on operation and maintenance (O&M) for all kinds of testing equipment. Most of QUATEST1's equipment has been maintained and adjusted by its own laboratories. Hence, QUATEST1 has not paid much to other laboratories for O&M tasks. For QUATEST3, those numbers range from 500 million to 1 billion VND/ year from its permanent spending source for O&M tasks. This fund has been created based on the business activities by QUATEST3 on its own, rather than taking from annual fund of State budget. STAMEQ, on the other hand, has actively participated in a wide range of training and organizing thematic workshops, seminars on operations of standard and conformance. STAMEQ has closely cooperated with many international partners to realize the above work. Those are Korean Agency on Standard and Technology, ASEAN- Joint Sectorial Committee for Electronic Equipment, APEC- Subcommittee on Standard and Conformance, Japan- Joint Sectorial Committee for Electronic Equipment.

Based on above information, interview results, site visits observation, it is fair to say that certain budget is allocated considering the continued operation of the standard and conformance system by the major counterpart organizations as mentioned in "Effectiveness/Impact" above.

<Evaluation Result>

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

5 Summary of the Evaluation

The project achieved its Project Purpose (strengthening of the system and operation of related organizations on standards and conformance in EE equipment) upon project completion and the effects have continued to the time of project completion. The Overall Goal (improved quality of Viet Nam-made EE equipment and consumers' safety) is not verifiable due to unavailability of most of the necessary data. For the sustainability, no problems are observed in all of the policy, institutional, technical, and financial aspects.

Considering all of the above points, this project is evaluated to be highly satisfactory.

III. Recommendations & Lessons Learned

Lessons learned for JICA:

Timely revision of the PDM:

It is relatively popular that when PDM was designed at the project's preparation/start, all stakeholders are very optimistic on the project's outputs, goals achievement. However, during the project's implementation, it turned out that there are many factors affecting the project's goals and outputs. If no timely revision, amendment are made to PDM, during the project's life and upon its completion, to make the outputs, goals really realistic, the project evaluation in the future cannot properly reflect the actual status and reasons behind the failure or success. In case of this project, this situation took place due to the judgment of the Overall Goal status.



Equipment provided to QUATEST 3



Equipment provided to QUATEST 3