

Draft Project Design Matrix (PDM)Title of the Project: Project for Improvement of Reliability of Safe Crop Production in the Northern Region ("IRSaC" Project)
Term of Cooperation: 5 years from dispatch of first long term expert

Project Site: The Northern Region of Vietnam: "2 Cities and 11 Provinces" (Hanoi City, Hai Phong City, Hung Yen Province, Hai Duong Province, Ha Nam Province, Thai Binh Province, Phu Tho Province, Vinh Phuc Province, Quang Ninh Province, Hoa Binh Province, Bac Ninh Province, Nam Dinh Province and Ninh Binh Province).

Implementing Organization: DCP/MARD. DARDs (in the Project site)

November 7, 2015/ PDM-ver.0

Implementing Organization: DCP/MARD, DARDs (in the Pi	roject site)		lovember 7, 2015/ PDM-ver.0
Narrative Summary	Objectively Verifiable Indicators	Means of Verifications	Important Assumptions
Agricultural products in the Northern Region of Viet Nam are improved in term of safety and reliability." *Improvement of products in term of safety and reliability, thereby, it enables to promote cultivation of safe crops paid much more attention and achieve the promotion of related industries.	1) To indicate the significance of agricultural products in term of safety and reliability 2) To show the quality of agricultural products to meet domestic requirements and export (For example) 1) Increased (expanded) areas and/or productions of safe crop production in the Northern Region of Viet Nam 2) Increased numbers of farmer groups, agriculture cooperatives and enterprises who acquired Basic GAP/VietGAP/ GlobalGAP in the Northern Region of Viet Nam 3) Reputation of safe crop productions (safety vegetable) in the Northern Region of Viet Nam from buyers/consumers	* MARD/DARD reports (focus on Basic GAP/VietGAP/GlobalGAP) * Interview & sample survey results gathered the voice of buyers/consumer * Questionnaire/ Interview (comparison between baseline data at the beginning of the Project and follow-up survey at the end of Project)	The current agricultural legal policy on safe crop production and food safety does not change.
Project Purpose Safe crop productions (safety vegetable) in target sites in the Northern Region of Viet Nam are promoted." *Promotion of safe crop production, then, channel of the value chain is promoted.	To indicate the promoted situation of safe crop productions in target sites in the Northern Region (For example) 1) Increased (expanded) areas and/or productions of safe crop production 2) Increased numbers of BasicGAP which applied and utilized by farmer groups, agriculture cooperatives and enterprises in target sites 3) Reputation of safe crop productions (safety vegetable) in target sites from buyers/consumers (increased number of new contract agreement and its content)	* Market (value chain) analysis survey report * MARD/DARD reports * Questionnaire/Interview * Comparison between baseline data at the beginning of the Project and follow-up survey at the end of Project	Necessary budget for safe crop production activities is ensured a central/ provincial level.

Narrative Summary	Objectively Verifiable Indicators	Means of Verifications	Important Assumptions
Outputs 1) "The capacity of monitoring and management on safe crop production for relevant organization (DCP/MARD, DARD in respective province/city, district, and commune) is improved." 2) "The good patterns (as model) on safe crop production (safety vegetable) following GAP (Basic GAP) with supply chain (market linkage between production and consumption) is proposed." 3) "Awareness of relevant organization/people, mainly producer and buyers (consumer and traders; such as wholesalers and retailers) on safe crop production and food safety is raised."	 1-1) Increased/enhanced capacity of quality management and monitoring safe crop productions from DCP to the province, district and communes on the target sites 1-2) Increased capacity of quality control and management of safe crop productions by the participated farmers 1-3) Disclosure of monitoring/inspection 2) Analysis and assessment of Various/different pattern/types as good 	CPMU/PPMU Reports * MARD/DARD reports (quality management and monitoring results) * Training Reports * Questionnaire/Interview * Farmer records (PGS, ICT, etc.) * Interview to farmers * Disclosure documents of monitoring/ inspection * CPMU/PPMU Reports * MARD/ DARD reports/Documentation * Interview to experts * Basic GAP guidelines * Comparison between baseline data at the	1. No severe natural disasters or economic crisis occur that have serious impact on food production and prices. 2. The price and condition of agricultural product are not drastically fluctuated. 3. The violation of contract and bankruptcy of buyers is not frequently.

Narrative Summary	Objectively Verifiable Indicators	Means of Verifications	Important Assumptions
Activities		Inputs	
1.1 To create unit of CPMU (Central Project Managem		<u>Vietnamese Side</u>	1. The majority of the
manage and implement of the Project effectively in ce		<project staff=""></project>	Project counterparts in
1.2 To create PPMU (Provincial Project Management Unit		- Counterpart and	charge of safe crop
as "Pilot province(s)/city" and "Semi Pilot province(s)"	(in order to manage and implement of the	administrative staffs	production in central and
Project effectively in local level)			pilot province(s) do not
* The PPMU is consisted with relevant sub-department		<facilities buildings=""></facilities>	
other departments/centers which is necessary to im		- Suitable office space with	change.
1.3 To review/analyze and identify bottlenecks in the exi		necessary equipment/	2. The cooperation from
production in the Pilot province(s) and Semi Pilot prov	vince(s)	facilities for Japanese experts	government organization
1.4 To select the target group (=Agriculture production er	ntities; Agriculture Cooperative, Agriculture		and people committee in
Production company/enterprises, and Farmer Group	s) in the Pilot province(s) and Semi Pilot	<expenses and<="" for="" operation="" td=""><td>relevant province(s) and</td></expenses>	relevant province(s) and
province(s)		management>	city and the counterpart budget is secured.
1.5 To collect relevant documents, materials and data	on safe crop production including GAP,	-Counterpart Fund necessary	budget is secured.
training materials, brochures		for the implementation of the	
1.6 To design crop production systems in order to ensure		Project	
* "Crop production system" includes format of record			
scientific pesticide residue testing, PGS (Participato		Japanese Side	
ICT (Information and Communication Technology), e		<dispatch japanese<="" of="" td=""><td></td></dispatch>	
1.7 Based on the systems designed in the Activity 1.6		Experts>	
activities in the pilot province(s) by joint collaboration		Long-term Experts:	
1.8 Based on the trial Activities 1.7 above, to modify and	improve the systems in order to make the	- Project Chief Advisor	
system workable	. ()	- Project Coordinator/	
1.9 Against PPMU in the respective "Semi Pilot prov	/ince(s)", to conduct worksnop/seminars	Training/ Public Relations	
regarding to the system constructed in the Activity 1.8		Short-term experts: As	
1.10 To introduce the system above even in the "Semi	Pilot province(s) under the guidance and	required	
instruction by CPMU	a currence is a the recults of activities corried	√Cauinmant/Machinan/\/ahiala	
1.11 In the Pilot province(s) and Semi Pilot province(s), to		<equipment machinery="" td="" vehicle<=""><td></td></equipment>	
out, and then to formulate action plans (including a		As necessary equipment	
continue the Project activities even after the termina	ition of the Project	As necessary equipmentOther items are to be	
* For the above-mentioned Activity 1, the "Know	dodgo charing province(s)/sity" are also	discussed	
participating as appropriate, to share information ab		นเอบนออฮน	
the Pilot province(s) and Semi Pilot province(s), even		<training in="" japan="" td="" third<=""><td></td></training>	
inc i not province(s) and benn i not province(s), ev	on to share the expendince each other.	Training in Japani Illiu	

Narrative Summary Objectively Verifiable Indicators Competitiveness*, "Value Chain Mapping/Diagram", "Constraints & Opportunities*, "Stakeholders' Actors relationship" and "Governance Structures & Public-private relations") 1.2 In conjunction with the Activity 1.4, and also based on the results of Market analysis survey above, to identify the potential buyers of the agricultural products produced by target groups (product processing entity, distribution entity, sales entity) in the Pilot province(s) and Semi Pilot province(s) or large consumption areas (Hanoi, etc.) 2.3 Together to provide the results of the Market analysis survey to the producers in the respective province, to conduct sales promotion activities on safe crops (in particular, vegetables follows BasicGAP) based on the requests by processing and sales entity "Promotion activities on safe crops (in particular, vegetables follows BasicGAP) based on the requests by processing and sales entity "Promotion activities on safe crops (in particular, vegetables follows BasicGAP) based on the requests by processing and sales entity "Promotion activities on safe crops (in particular, vegetables follows BasicGAP) based on the requests by processing and sales entity "Promotion activities on safe crops (in particular, vegetables follows BasicGAP) based on the requests by processing and sales entity "Promotion activities on safe crops (in particular, vegetables follows BasicGAP) based on the requests by processing and sales entity "Promotion activities on safe crops (in particular, vegetables follows BasicGAP) based on the requests by processing and sales entity "Promotion activities on safe crops (in particular, vegetables in the same processing and delivery method of collection shipment above even in the "Semil Pliot province(s), and Semi Pliot province(s), to summarize the results of activities carried out, and then to formulate action plans (including activities and budget) which are enable to continue the Project activities on after proproduction and foo
Competitiveness*, "Value Chain Mapping/Diagram*, "Constraints & Opportunities", "Tarining of Vietnamese staffs in "Stakeholders' Actors "relationship" and "Governance Structures & Public-private relations," above, to identify the potential buyers of the agricultural products produced by target groups (product processing entity, distribution entity, sales entity) in the Pilot province(s) and Semi Pilot province(s) or large consumption areas (Hanoi, etc.) 2.3 Together to provide the results of the Market analysis survey to the producers in the respective province, to conduct sales promotion activities on safe crops (in particular, vegetables follows BasicGAP) based on the requests by processing and sales entity * "Promotion activities on safe crop production" is called as Matching activities like market/price information sharing and supports of business opportunities between producers and buyers 2.4 To examine the pre-processing and delivery method of collection shipment (including the transportation method) 2.5 To introduce the pre-processing and delivery method of collection shipment above even in the "Semi" Pilot province(s)" under the guidance and instruction by CPMU 2.6 In the Pilot province(s) and Semi Pilot province(s), to summarize the results of activities carried out, and then to formulate action plans (including activities and budget) which are enable to continue the Project activities even after the termination of the Project *For the above-mentioned Activity 2, the "Knowledge-sharing province(s)/city" are also participating as appropriate, to share information about the progress and results of activities in the Pilot province(s) and Semi Pilot province(s), even to share the experience each other. 3.1 To review and analyze past experiences of promotion activities on safe crop production and food safety focus on human health, environment and agricultural promotion toward customers (safe vegetable buyers) through mass media in nathonized *For example; - To produce poster and video to the buyers
3.4 To grasp the consumers' voice/opinion (information on fake high-quality vegetable products, consumer needs through "Customers protection union", etc.), and support activities on communication and information given by Vietnamese government

Project Design Matrix (PDM)

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Term of Cooperation: 5 years from dispatch of first long term expert

Project Site: The Northern Region of Vietnam: "2 Cities and 11 Provinces" (Hanoi City, Hai Phong City, Hung Yen Province, Hai Duong Province, Ha Nam Province, Thai Binh Province, Phu Tho Province, Vinh Phuc Province, Quang Ninh Province, Hoa Binh Province, Bac Ninh

Province, Nam Dinh Province and Ninh Binh Province).

Implementing Organization: DCP/MARD, DARDs (in the Project site)

April 17, 2017/ PDM-ver.1

Implementing Organization: DCP/MARD, DARDs (in the P	roject site)		ril 17, 2017/ PDM-ver.1
Narrative Summary	Objectively Verifiable Indicators	Means of Verifications	Important Assumptions
Overall Goal Agricultural products in the Northern Region of Viet Nam are improved in term of safety and reliability." *Improvement of products in term of safety and reliability, thereby, it enables to promote cultivation of safe crops paid much more attention and achieve the promotion of related industries.	 Areas and productions of reliable safe crop production in the Northern Region of Viet Nam is increased. Numbers of farmer groups, agriculture cooperatives and enterprises who acquired Basic GAP/ VietGAP/ GlobalGAP in the Northern Region of Viet Nam is increased. Numbers of buyers/shops of safe crops in the Northern Region of Viet Nam is increased. 	* MARD/DARD reports (focus on Basic GAP/ VietGAP/ GlobalGAP)	The current agricultural legal policy on safe crop production and food safety does not change.
Project Purpose Safe crop productions (safety vegetable) in target sites in the Northern Region of Viet Nam are promoted." *Promotion of safe crop production, then, channel of the value chain is promoted.	 At least three kinds of supply chain models for safe crops are developed in the target sites. Percentage of farmers who join joint sales of safe crop is increased to 50% in the target sites. The area for reliable safe crop production in the target sites is increased to 180ha. 	Safe crop supply chain development manual Baseline/Endline survey 3) Baseline/Endline survey	Necessary budget for safe crop production activities is ensured at central/ provincial level.
Outputs 1) "The capacity of monitoring and management on safe crop production for relevant organization (DCP/MARD, DARD in respective province/city, district, and commune) is improved."	For Producers 1-1) The number of target groups applying and utilizing Basic GAP/ VietGAP is increased to at least 16. 1-2) 320 number of producers in target sites attend Basic GAP trainings. 1-3) 80% of producers in target sites record on field diary properly according to Basic GAP. 1-4) 100% of target groups in target sites conduct internal audit to evaluate group members' activity.	1-1) PPMU monitoring report1-2) PPMU monitoring reports1-3) Baseline/Endline survey1-4) PPMU monitoring reports	 No severe natural disasters or economic crisis occur that have serious impact on food production and prices. The price and condition of agricultural product are not drastically fluctuated. The violation of contract and bankruptcy of buyers is not frequently.

Narrative Summary	Objectively Verifiable Indicators	Means of Verifications	Important Assumptions
	For Government staff 1-5) 48 number of field officers are trained as trainer of Basic GAP.	1-5) PPMU monitoring reports	
	1-6) 35 samples of soil and water analysis are conducted.1-7) 60 samples of pesticide residue	1-6) PPMU monitoring reports 1-7) PPMU monitoring reports	
	inspection are conducted. 1-8) 70 times of internal audits are attended by field officers.	1-8) PPMU monitoring reports	
	1-9) Monitoring report is prepared by PPMU every 3 months.	1-9) PPMU monitoring reports	
	1-10) Evaluation report is prepared by CPMU before every JCC meeting.	1-10) CPMU evaluation reports	
O) "The good wetterness as model on one of a grown was distalled	1-11) Action plan is prepared by PPMU and CPMU.	1-11) Action plans	
2) "The good patterns as model on safe crop production (safety vegetable) following GAP (Basic	2-1) 20 number of matching events are	2-1) PPMU monitoring reports	
GAP/VietGAP/Global GAP) with supply chain is proposed."	conducted 2-2) 40 number of linkages between	2-2) PPMU monitoring reports	
	producers and buyers are made in target sites. 2-3)The stakeholder coordination meetings for each target group which include producers, buyers and	2-3) PPMU monitoring reports	
	members of DARD are held at least twice a year. 2-4) Monitoring report is prepared by	2-4) PPMU monitoring reports	
	PPMU every 3 months. 2-5) Evaluation report is prepared by	2-5) CPMU evaluation reports	
	CPMU before every JCC meeting. 2-6) Action plans is prepared by PPMU and CPMU.	2-6) Action plans	
3) "Awareness of relevant organization/people, mainly producer and buyers (consumer and traders; such as wholesalers and retailers) on safe crop production and food safety is raised."	3-1) The awareness program for consumers, producers and buyers are conducted 15 times by CPMU	3-1) CPMU and PPMU monitoring report	
	and PPMU. 3-2) 5 promotional materials for awareness activities are developed. 3-3) The number of participants in the awareness activities exceeds 500.	3-2) CPMU and PPMU monitoring report 3-3) CPMU and PPMU monitoring report	

Narrative Summary	Objectively Verifiable Indicators	Means of Verifications	Important Assumptions
Activities		Inputs	•
1.1 To create unit of CPMU (Central Project Manager manage and implement of the Project effectively in c		<u>Vietnamese Side</u> <project staff=""></project>	1. The majority of the
1.2 To create PPMÜ (Provincial Project Management Usas "Pilot province(s)/city" and "Semi Pilot province(s)	nit) within the respective province selected	- Counterpart and administrative staffs	Project counterparts in charge of safe crop production in central
Project effectively in local level The PPMU is consisted with relevant sub-department other departments/centers which is necessary to impose the content of the co		<pre><facilities buildings=""> - Suitable office space with</facilities></pre>	and pilot province(s) do not change.
1.3 To review/analyze and identify bottlenecks in the exproduction in the Pilot province(s) and Semi Pilot pro	sisting situation and problems for safe crop ovince(s)	necessary equipment/ facilities for Japanese experts	2. The cooperation from government
1.4 To select the target groups (=Agriculture production e Production company/enterprises, and Farmer Group province(s)		<pre><expenses and="" for="" management="" operation=""></expenses></pre>	organization and people committee in relevant province(s)
1.5 To collect relevant documents, materials and data training materials, brochures		- Counterpart Fund necessary for the implementation of the	and city and the counterpart budget is secured.
 To design crop production systems in order to ensure "Crop production system" includes the activities, sure record confirmation, scientific pesticide residue testi and introduction of ICT (Information and Communical 	ch as format of record keeping, method of ng, PGS (participatory Guarantee System,	Project <u>Japanese Side</u> <dispatch experts="" japanese="" of=""></dispatch>	
1.7 Based on the systems designed in the Activity 1.6 activities in the pilot province(s) by joint collaboration	above, to introduce the system as pilot	Long-term Experts: - Project Chief Advisor	
1.8 Based on the Activities 1.7 above, to modify and in system workable	mprove the systems in order to make the	 Project Coordinator/ Training/ Public Relations 	
1.9 Against PPMU in the respective "Semi Pilot pro regarding to the system constructed in the Activity 1.	8 above by CPMU	Short-term experts: As required	
1.10 To introduce the system above even in the "Semi instruction by CPMU1.11 In the Pilot province(s) and Semi Pilot province(s	. , ,	<pre><equipment machinery="" vehicle=""> - As necessary equipment - Other items are to be discussed</equipment></pre>	Pre-conditions
1.11 In the Pilot province(s) and Semi Pilot province(s carried out, and then to formulate action plans (inc MARD/DARD to continue the Project activities ever	cluding activities and budget) which enable	- Other items are to be discussed- Training in Japan/ Third	The cooperation from buyers (collector,
* For the above-mentioned Activity 1, the "Know participating as appropriate, to share information ab	vledge-sharing province(s)/city" are also	countries> - Training of Vietnamese staffs in	trader, wholesaler, retailor, etic.) of safe
the Pilot province(s) and Semi Pilot province(s), eve		Japan/third countries as required	crop production is secured.
2.1 To conduct survey on "Market (value chain) Competitiveness", "Value Chain Mapping/Diag "Stakeholders'/ Actors' relationship" and "Governance	gram", "Constraints & Opportunities", le Structures & Public-private relations")		
2.2 In conjunction with the Activity 1.4, and also based above, to identify the potential buyers of the agriculture (product processing entities, distribution entities and	Iltural products produced by target groups I sales entities) in the Pilot province(s) and		
Semi Pilot province(s) or large consumption areas (F 2.3 Together to provide the results of the Market analysi province, to conduct sales promotion activities on s	is survey to the producers in the respective		
GAP), making contract and planning collection and contract and processing and sales entity			

Narrative Summary	Objectively Verifiable Indicators	Means of Verifications	Important Assumptions
* "Promotion activities on safe crop production" is ca			
information sharing and supports of business opports			
2.4 To examine the pilot activities of collection, pre proc	essing and delivery in Pilot provinces.		
2.5 To introduce the pilot activities of collection, pre proc			
Pilot province(s)" under the guidance and instruction			
2.6 In the Pilot province(s) and Semi Pilot province(s), to			
out, and then to formulate action plans (includ			
MARD/DARD to continue the Project activities even			
* For the above-mentioned Activity 2, the "Know			
participating as appropriate, to share information ab			
the Pilot province(s) and Semi Pilot province(s), eve	n to share the experience each other.		
3.1 To review and analyze past experiences of promotion			
safety, and draw good practices and lessons learned			
3.2 To implement raising awareness activities on safe c			
traceability and trust building toward customers (buy			
* Awareness activities = such as awareness raising ca			
3.3 To implement specific raising awareness activities			
toward the target groups and organization related to	the Activity 1 and Activity 2		
3.4 To grasp the consumers' voice/opinion and suppo	rt communication activities of Vietnamese		
government			

Project Design Matrix (PDM)

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Term of Cooperation: 5 years from dispatch of first long term expert

Project Site: The Northern Region of Vietnam: "2 Cities and 11 Provinces" (Hanoi City, Hai Phong City, Hung Yen Province, Hai Duong Province, Ha Nam Province, Thai Binh Province, Phu Tho Province, Vinh Phuc Province, Quang Ninh Province, Hoa Binh Province, Bac Ninh

Province, Nam Dinh Province and Ninh Binh Province).

Implementing Organization: DCP/MARD, DARDs (in the Project site) June 21 2019/ PDM-ver 2

Implementing Organization: DCP/MARD, DARDs (in the Pi	ojeci site)		ie 21, 2019/ PDM-ver.2
Narrative Summary	Objectively Verifiable Indicators	Means of Verifications	Important Assumptions
Overall Goal Agricultural products in the Northern Region of Viet Nam are improved in term of safety and reliability." *Improvement of products in term of safety and reliability, thereby, it enables to promote cultivation of safe crops paid much more attention and achieve the promotion of related industries.	1) Areas and productions of reliable safe crop production in the Northern Region of Viet Nam is increased. 2) Numbers of farmer groups, agriculture cooperatives and enterprises who acquired Basic GAP/ VietGAP/ GlobalGAP in the Northern Region of Viet Nam is increased. 3) Numbers of buyers/shops of safe crops in the Northern Region of Viet Nam is increased.	* MARD/DARD reports (focus on Basic GAP/ VietGAP/ GlobalGAP)	The current agricultural legal policy on safe crop production and food safety does not change.
Project Purpose Safe crop productions (safety vegetable) in target sites in the Northern Region of Viet Nam are promoted." *Promotion of safe crop production, then, channel of the value chain is promoted.	 At least three kinds of supply chain models for safe crops are developed in the target sites. Percentage of farmers who join joint sales of safe crop is increased to 50% in the target sites. The area for reliable safe crop production in the target sites is increased to 180ha. 	Safe crop supply chain development manual Baseline/Endline survey 3) Baseline/Endline survey	Necessary budget for safe crop production activities is ensured at central/ provincial level.
Outputs 1) "The capacity of monitoring and management on safe crop production for relevant organization (DCP/MARD, DARD in respective province/city, district, and commune) is improved."	For Producers 1-1) The number of target groups applying and utilizing Basic GAP/ VietGAP is increased to at least 16. 1-2) 320 number of producers in target sites attend Basic GAP trainings. 1-3) 80% of producers in target sites record on field diary properly according to Basic GAP. 1-4) 100% of target groups in target sites conduct internal audit to evaluate group members' activity. For Government staff 1-5) 48 number of field officers are	 1-1) PPMU monitoring report 1-2) PPMU monitoring reports 1-3) Baseline/Endline survey 1-4) PPMU monitoring reports 1-5) PPMU monitoring reports 	 No severe natural disasters or economic crisis occur that have serious impact on food production and prices. The price and condition of agricultural product are not drastically fluctuated. The violation of contract and bankruptcy of buyers is not frequently.

Narrative Summary	Objectively Verifiable Indicators	Means of Verifications	Important Assumptions
	trained as trainer of Basic GAP.		
	1-6) 35 samples of soil and water analysis are conducted.	1-6) PPMU monitoring reports	
	1-7) 60 samples of pesticide residue are	1-7) PPMU monitoring reports	
	checked by authorized laboratory.		
	1-8) 500 samples of pesticide residue are checked as quick test by PPMU.	1-8) PPMU monitoring reports	
	1-9) 70 times of internal audits are		
	attended by field officers.	1-9) PPMU monitoring reports	
	1-10) Monitoring report is prepared by PPMU every 3 months.	1-10) PPMU monitoring reports	
	1-11) Action plan is prepared by PPMU.	1-11) Action plans	
2) "The good patterns as model on safe crop production (safety vegetable) following GAP (Basic	2-1) 300 number of matching events are	2-1) PPMU monitoring reports	
GAP/VietGAP/Global GAP) with supply chain is	conducted 2-2) 110 number of linkages between	2-2) PPMU monitoring reports	
proposed."	producers and buyers are made in		
	target sites.		
	2-3) The coordination meetings for each	2-3) PPMU monitoring reports	
	target group with buyers are held at least once a year to receive		
	feedback or discuss future trading.		
	2-4) Monitoring report is prepared by	2-4) PPMU monitoring reports	
	PPMU every 3 months.	,	
	2-5) Action plans is prepared by PPMU.	2-5) Action plans	
3) "Awareness of relevant organization/people, mainly	3-1) The awareness program for	3-1) CPMU and PPMU	
producer and buyers (consumer and traders; such as	consumers, producers and buyers	monitoring report	
wholesalers and retailers) on safe crop production and food safety is raised."	are conducted 15 times by CPMU	3 1	
1000 baloty to falsou.	and PPMU.		
	3-2) 5 promotional materials for awareness activities are developed.	3-2) CPMU and PPMU	
	3-3) The number of participants of general	monitoring report 3-3) CPMU and PPMU	
	school students in Hanoi exceed	monitoring report	
	64,000.		

Narrative Summary	Objectively Verifiable Indicators	Means of Verifications	Important Assumptions
Activities		Inputs	
 1.1 To create unit of CPMU (Central Project Manager manage and implement of the Project effectively in central as "Pilot province(s)/city" and "Semi Pilot province(s)" Project effectively in local level * The PPMU is consisted with relevant sub-department other departments/centers which is necessary to imple 1.3 To review/analyze and identify bottlenecks in the exist production in the Pilot province(s) and Semi Pilot province 1.4 To select the target groups (=Agriculture production er Production company/enterprises, and Farmer Group province(s) 1.5 To collect relevant documents, materials and data training materials, brochures 	entral level it) within the respective province selected in order to manage and implement of the t(s) in DARD as well as collaboration with ement the Project effectively. sting situation and problems for safe crop vince(s) ntities; Agriculture Cooperative, Agriculture s) in the Pilot province(s) and Semi Pilot on safe crop production including GAP,	Vietnamese Side <project staff=""> - Counterpart and administrative staffs <facilities buildings=""> - Suitable office space with necessary equipment/ facilities for Japanese experts <expenses and="" for="" management="" operation=""> - Counterpart Fund necessary for the implementation of the</expenses></facilities></project>	1. The majority of the Project counterparts in charge of safe crop production in central and pilot province(s) do not change. 2. The cooperation from government organization and people committee in relevant province(s) and city and the counterpart budget is secured.
 1.6 To design crop production systems in order to ensure "Crop production system" includes the activities, suc record confirmation, scientific pesticide residue testin and introduction of ICT (Information and Communicat 1.7 Based on the systems designed in the Activity 1.6 activities in the pilot province(s) by joint collaboration 1.8 Based on the trial Activities 1.7 above, to modify and system workable 1.9 Against PPMU in the respective "Semi Pilot provincegarding to the system constructed in the Activity 1.8 1.10 To introduce the system above even in the "Semi Finstruction by CPMU 1.11 In the Pilot province(s) and Semi Pilot province(s), carried out, and then to formulate action plans (inclind MARD/DARD to continue the Project activities even For the above-mentioned Activity 1, the "Knowl participating as appropriate, to share information about the Pilot province(s) and Semi Pilot province(s), even 2.1 To conduct survey on "Market (value chain) a Competitiveness", "Value Chain Mapping/Diagor "Stakeholders'/ Actors' relationship" and "Governance" 	h as format of record keeping, method of ing, PGS (participatory Guarantee System, ion Technology), etc. above, to introduce the system as trial between CPMU and PPMU improve the systems in order to make the vince(s)", to conduct workshop/seminars above by CPMU Pilot province(s)" under the guidance and to summarize the results of trial activities uding activities and budget) which enable after the termination of the Project ledge-sharing province(s)/city" are also but the progress and results of activities in to share the experience each other. analysis" (such as "Market Trends & ram", "Constraints & Opportunities",	Project Japanese Side Dispatch of Japanese Experts Long-term Experts: Project Chief Advisor Project Coordinator/ Training/ Public Relations Short-term experts: As required Equipment/Machinery/Vehicle As necessary equipment Other items are to be discussed Training in Japan/ Third countries Training of Vietnamese staffs in Japan/third countries as required	Pre-conditions 1. The cooperation from buyers (collector, trader, wholesaler, retailor, etic.) of safe crop production is secured.
 2.2 In conjunction with the Activity 1.4, and also based above, to identify the potential buyers of the agricul (product processing entity, distribution entity and sale Pilot province(s) or large consumption areas (Hanoi, et al.). 2.3 Together to provide the results of the Market analysis province, to conduct sales promotion activities on sa GAP), making contract and planning collection and deprocessing and sales entity 	on the results of Market analysis survey tural products produced by target groups es entity) in the Pilot province(s) and Semi etc.) s survey to the producers in the respective afe crops (in particular, vegetables follow		

Narrative Summary	Objectively Verifiable Indicators	Means of Verifications	Important Assumptions
* "Promotion activities on safe crop production" is call			
information sharing and supports of business oppo			
2.4 To examine the trial activities of collection, pre proce			
2.5 To introduce the trial activities of collection, pre proce			
Pilot province(s)" under the guidance and instruction			
2.6 In the Pilot province(s) and Semi Pilot province(s),	to summarize the results of trial activities		
carried out, and then to formulate action plans (incl			
MARD/DARD to continue the Project activities even			
* For the above-mentioned Activity 2, the "Know participating as appropriate, to share information above			
the Pilot province(s) and Semi Pilot province(s), ever			
the Filot province(s) and Semi Filot province(s), ever	i to share the experience each other.		
3.1 To review and analyze past experiences of promotion	activities on safe crop production and food		
safety, and draw good practices and lessons learned			
3.2 To implement raising awareness activities on safe cr			
human health, environment and agricultural promot	on toward customers (buyers/consumers)		
through mass media in nationwide.	, , , , , , , , , , , , , , , , , , , ,		
* Awareness activities = such as awareness raising ca	mpaign event, utilization of social media		
3.3 To implement specific raising awareness activities	on safe crop production and food safety		
toward the target groups and organization related to			
3.4 To grasp the consumers' voice/opinion and support a	ctivities on communication and information		
given by Vietnamese government			

(33) Recommendation on Policy and Regulation for Safe Crop Production

(34) Preparation of Project Completion Report

(31) Development and distribution of trainingmaterials

(34) Preparation of Project Completion Report

(33) Recommendation on Policy and Regulation for Safe Crop Production

(32) Endline Survey

Project Title: Project for Improvement of Reliability of Safe Crop Production in the Northern Region ("IRSaC" Project)

la monto	Plan	20	16		201	7			20	18			20	019			2	020		20)21
Inputs	Actual	пп	IV	I	I	ш	IV	Ι	I	Ш	IV	Ι	I	Ш	IV.	Ι	I	Ш	IV	I	П
Expert																					
Chief Advisor	Plan Actual																				
Project Coordinator/ Training/ Public Relations	Plan Actual																				
Team Leader/ Food Value Chain	Plan Actual																				
Co-Team Leader/ Distribution Improvement/ Marketing Promotion/ Agricultural Finance	Plan Actual																				
Cooperative Sales/Cooperative Purchase/ Vegetable Production (2)	Plan Actual																				
GAP System/ Consumer Relations	Plan Actual																				
Vegetable Production (1)	Plan Actual																				
Gender Relations (1)	Plan Actual																				
Coordinator/ Gender Relations (2)	Plan Actual																				
Coordinator/ Marketing Promotion (2)	Plan Actual																				
Coordinator/ Cooperative Purchase (2)/ Vegetable Production (3)	Plan Actual																				
Cooperative Sales (3)/Cooperative Purchase (2)/ Vegetable Production (4)	Plan Actual																				
Equipment				Ш																	
Project Car	Plan Actual																				
Training in Japan																					
Establishment of Safe Vegetable Supply Chain	Plan Actual																				
In-country/Third country Training																					
-	Plan Actual																				
Activities	Plan	20	16		201	7			20	18			20	019			2	020		20	021
Sub-Activities	Actual	пп	IV	I	п	шТ	IV	I	I	Ш	IV	I	I	Ш	IV.	I	П	Ш	IV	I	П
Output 1: The capacity of monitoring and management on safe crop production for	relevan	t org	aniz	atio	n (DC	P/M	ARI), D	ARI) in	resp	ect	ive	prov	/ince	/city	/, di	stric	t, an	d	
commune) is improved.																				• • • •	
1.1 To create unit of CPMU (Central Project Management Unit) within DCP/MARD	Plan Actual																				
1.2 To create PPMU (Provincial Project Management Unit) within the respective province selected as "Pilot province(s)/city" and "Semi Pilot province(s)	Plan Actual																				
1.3 To review/analyze and identify bottlenecks in the existing situation and problems for safe crop	Plan																				
production in the Pilot province(s) and Semi Pilot province(s)	Actual Plan	╁				4						╂	╫	╂	+		╂	╫		╂╫╢	+
1.4 To select the target group (=Agriculture production entities; Agriculture Cooperative, Agriculture Production company/enterprises, and Farmer Groups) in the Pilot province(s) and Semi Pilot province(s)		╫				\mathbb{H}	╫					H			+	H				╂╫╫	+++
1.5 To collect relevant documents, materials and data on safe crop production including GAP, training	Plan	$\Pi\Pi$				+	\prod														
materials, brochures	Actual						Ш					Ш				Ш	Ш				
1.6 To design crop production systems in order to ensure quality and safety	Plan	\coprod				4	11	\blacksquare					\bot	\coprod	\bot	Ш	╽		\bot	╂┋	+
	Actual										<u> </u>		<u> </u>	<u> </u>							

Project Title: Project for Improvement of Reliability of Safe Crop Production in the Northern Region ("IRSaC" Project)

	,	-													_					_					
	1.7 Based on the systems designed in the Activity 1.6 above, to introduce the system as trial activities in	Plan																							
	the pilot province(s) by joint collaboration between CPMU and PPMU	Actual																							
	1.8 Based on the trial Activities 1.7 above, to modify and improve the systems in order to make the	Plan		Ш																Ш	Ш	Ш	Ш	Ш	
	system workable	Actual								╙										┷		Ш	4		
	1.9 Against PPMU in the respective "Semi Pilot province(s)", to conduct workshop/Seminars regarding	Plan	1	\perp	4	44			111	╀	Ш	4						111		┷	4	##	4	Ш	
	to the system constructed in the Activity 1.8 above by CPMU	Actual		$oldsymbol{\perp}$		4	4	╽	╀	╀	₩	4								┹	4	₩	╬	₩	444
	1.10 To introduce the system above even in the "Semi Pilot province(s)" under the guidance and	Plan	4	\perp	₩	₩			╀	╬	H	4										₩	┷	Ш	
	instruction by CPMU	Actual	1	$oldsymbol{\perp}$	╫	₩	╫	╀	╀	╬	╀	╫				-		╀					4		444
	1.11 In the Pilot province(s) and Semi Pilot province(s), to summarize the results of activities carried out,	Plan								H															
	and then to formulate action plans (including activities and budget) which are enable to continue the Project activities even after the termination of the Project	Fiaii																							
	* For the above-mentioned Activity 1, the "Knowledge-sharing province(s) /city" are also participating as		+	+	+	╁┼	+	╁╁╁	╁╁	╁	╫		Н	+	╁╂										
	appropriate, to share information about the progress and results of activities in the Pilot province(s) and	Actual																							
	Semi Pilot province(s), even to share the experience each other.																								
Ou	tput 2: The good patterns (as model) on safe crop production (safety vegetable) for	ollowin	a G	AP	(B	asio	: G/	\P) \	with	su	laa	v ch	nair	ı (m	arke	t lir	ıkac	ae be	etwe	en	pro	duc	tio	າ ar	d
	nsumption) is proposed.		5		`			,				,		`			•	,							
1	2.1 To conduct survey on "Market (value chain) analysis" (such as "Market Trends & Competitiveness",	Plan	T						ПП	T	П	TT	П		ΙΙ		ПП	TII		ПП	П	ПТ	T	ПП	
	"Value Chain Mapping/Diagram", "Constraints & Opportunities", "Stakeholders'/ Actors' relationship" and			+			+	H	╁╁	╁	╫	₩		+	Ħ	H	╫	$\dagger \dagger \dagger$	╂┼	╁	+ +	╁	卄	₩	╁┼┼┤
	"Governance Structures & Public-private relations")	Actual																							
	2.2 In conjunction with the Activity 1.4, and also based on the results of Market analysis survey above, to	Plan	Ħ	\top					+	T	H	\top			$\dagger \dagger$			111		111	+	HI	\top	${}^{\dag \dag }$	
	identify the potential buyers of the agricultural products produced by target groups (product processing		╁	\top			\Box		${\sf H}{\sf H}$	T	${\sf HI}$	$\dagger \dagger$	H		$\dagger \dagger$		 	111		111	+	$H \dagger$	+	${}^{\dag \dag \dag}$	
	entity, distribution entity, sales entity) in the Pilot province(s) and Semi Pilot province(s) or large	Actual																							
	consumption areas (Hanoi, etc.)																								
	2.3 Together to provide the results of the Market analysis survey to the producers in the respective	Plan		\top			\Box			Ħ		\top			Π					\Box		\prod	\top	Ш	
	province, to conduct sales promotion activities on safe crops (in particular, vegetables follows Basic	ı ıdıı	1	\Box	╫													╫		₩		₩	┷	Ш	┵┼┤
	GAP) based on the requests by processing and sales entity	Actual																							
	2.4 To examine the pre-processing and delivery method of collection shipment (including the	Plan																					T	П	
	transportation method)	Actual		П																					
	2.5 To introduce the pre-processing and delivery method of collection shipment above even in the "Semi	Plan	T	\top		\top	77																T	П	
	Pilot province(s)" under the guidance and instruction by CPMU	Actual		П	Ħ	T	\top			Ħ		T													
	2.6 In the Pilot province(s) and Semi Pilot province(s), to summarize the results of activities carried out,									Ħ		\top											T	П	
	and then to formulate action plans (including activities and budget) which are enable to continue the	Plan																							
	Project activities even after the termination of the Project				Ш					╙	Ш												Ш		
	* For the above-mentioned Activity 2, the "Knowledge-sharing province(s) /city" are also participating																								
	as appropriate, to share information about the progress and results of activities in the Pilot province(s)	Actual																							
	and Semi Pilot province(s), even to share the experience each other.				1 4 9 4	<u> </u>		<u> </u>		<u> </u>		ا ا			<u> </u>		·	n of	1						2
	tput 3: Awareness of relevant organization/people, mainly producer and buyers (consum	ier a	anc	ıtra	aue	rs; s	suci	ı as	WI	ioie	Sale	ers	and	reta	aner	S) C	on Sa	пе с	rop	pro	Jau	CTIO	n a	na
OC	d safety is raised.								111								1 1 1	1 : :							
	3.1 To review and analyze past experiences of promotion activities on safe crop production and food	Plan								╙		Ш							Ш	Ш	4	Ш	4	Ш	
	safety, and draw good practices and lessons learned	Actual																				Ш			
	3.2 To implement raising awareness activities on safe crop production and food safety, focus on human	Plan																							
	health, environment and agricultural promotion toward customers (safe vegetable buyers/consumers)	Actual		H	$\forall t$	${\dagger}{\dagger}$	++					†								1	#	$H \uparrow$	廿	H	
	through mass media in nationwide		╁	+	₩	₩	₩			╬		#								╆	$+\!\!\!+$	₩	₩	₩	####
	3.3 To implement specific raising awareness activities on safe crop production and food safety toward	Plan	4	4	4	₩	4		┞┼┆	₩		4						╁		╇╇	+	₩	#	₩	╫
	the target groups and organization related to the Activity 1 and Activity 2	Actual	↓	Щ	4	#	4					<u></u>								╨	Щ.	##	4	Ш	<u> </u>
	3.4 To grasp the consumers' voice/opinion (information on fake high-quality vegetable products,	Plan																							
	consumer needs through "Customers protection union", etc.), and support activities on communication and information given by Vietnamese government	Actual		П	\blacksquare					Т	П	\blacksquare													
	and information given by vietnamese governincial		1 1			1 1	111	1 1 1	1 1 1		1 I I	: 1													: 1 I I

Annex 3 Plan of Operation

Dated on 15 June 2021

Project Title: Project for Improvement of Reliability of Safe Crop Production in the Northern Region ("IRSaC" Project)

Duration / Phasing	Plan Actual																					
	Plan	20	16		20)17			2	018				201	9			20	20			2021
Monitoring Plan	Actual	т —		I	I	Ш	IV	I	Ī	<u> </u>	IV	I	_		ш	IV	I	I	Ш	IV	I	П
Monitoring																						
Joint Coordinating Committee	Plan Actual																					
Set-up the Detailed Plan of Operation	Plan Actual																					
Submission of Monitoring Sheet	Plan Actual																					
Monitoring Mission from Japan	Plan Actual																					
Joint Monitoring	Plan Actual																			\prod		
Post Monitoring	Plan Actual																			Ħ	H	
Reports/Documents																					Ш	
Work plan (1)	Plan Actual																					
Progress report (1) and draft work plan (2)	Plan Actual																			\prod		
Work plan (2)	Plan Actual																					
Project Completion Report	Plan Actual																					
Public Relations																						
Establishment and operation of website	Plan Actual																					
Issue of newsletter	Plan Actual																					

Annex 4 Assignment Schedule

				Λ	1	2	3	1	5 (6	7	Ω (10	11	12	12	1/1 1	5 1	5 17	7 10	10	20 2	1 22	23	24	25	26 2	7 28	20	30
	Position	Name	Company	۳	1		2016		J (/	0 3	9 10		FY2		14 1	.5 1	0 17	10	13	20 2	1 22	23	FY20		20 2	/ 20	23	30
				9	10				2 3	3	4	5 6	5 7				11 1	2 1	. 2	3	4	5 6	5 7	8			11 1	2 1	7	3
		1			Ž										se1										Ť					
	Phase					Wi	nter	Seso	n		Su	mma	r Seas	on			Wir	iter S	eson		S	umma	r Sea	son			Win	ter Se	son	K
	Tet Holidays				\exists				'17/	1/2	6-2/	1							_		/2/15					'1	19/2/2	_		_
	Teerrondays							ΞΤ.												10,		2/23					.3/2/2	-2/10		_
1	Team Leader/Food Value Chain	Mitsuru Nanakubo	Nippon Koei		(16)	(30)	(30)		20) (2				9) (27)			(28)	(19)		0) (6)		(28)	(2	0)	(9)		(11) ((30) (7	(12)) (12)	(22)
2	Co-Team Leader/Distribution Improvement/ Marketing Promotion/Agricultural Finance	Chiyo Mamiya	КМС		(16)	(30)	(14)	(20) (1	7) (12)	(3	0) (2)	(11)		(12)	(28) (1			(22)		(22) (1	L)	(26)	(21)	(7) ((11) (1	3)	(15)	(15)
3	Cooperative Sales/Cooperative Purchase/ Vegetable Production (2)	Hideki Maruyama	Nippon Koei		(16)	(10)		(16) (1		23)	l	(31)	(31)		(24)	(10) (9) (24	4) (2)	(13)	(18)	(2)	(15)	(10)	(21)	(31) ((20) (1	5) (11) (8)	(15)
3'	Cooperative Sales/Cooperative Purchase/ Vegetable Production (2)	Hironori Inoue	Nippon Koei																											
4	GAP System/Consumer Relations	Tamaki Tanaka	КМС			(4)	(16)				13) ((26) (1	1) (14)	(1)	(14)	(6)	(9)		(1)	(28)				(15)		(8)	[[14)	(25))	
5	Vegetable Production (1)	Shiro Arai	Nippon Koei				(14) ((13) (16) (1	(O)	15)	(5)	(2)	(25)												((26)			
6	Gender Relations (1)	Natsuno Matsuura	Nippon Koei			(25)	(3)				(2) ((27)																		
7	Coordinator/Gender Relations (2)	Yuko Togawa	Nippon Koei		7/2	2																								
8	Coordinator/Marketing Promotion (2)	Takuto Hashimoto	KMC						7//	777	Z			//			7//	3 (
9	Coordinator/Cooperative Sales (2)/ Vegetable Production (3)	Hiroki Takezawa	Nippon Koei																							77				
	Sub-Total																													
1	Team Leader/Food Value Chain	Mitsuru Nanakubo	Nippon Koei		(3)																								(2)	
2	Co-Team Leader/Distribution Improvement/ Marketing Promotion/Agricultural Finance	Chiyo Mamiya	КМС		(3)																						[] (4			
3	Cooperative Sales/Cooperative Purchase/ Vegetable Production (2)	Hideki Maruyama	Nippon Koei		(3)																								(6)	
3'	Cooperative Sales/Cooperative Purchase/ Vegetable Production (2)	Hironori Inoue	Nippon Koei																											
4	GAP System/Consumer Relations	Tamaki Tanaka	КМС																											
10	Cooperative Sales (3)/Cooperative Purchase (2)/ Vegetable Production (4)	Mitsuru Nanakubo	Nippon Koei																											
	Sub-Total																													
	Total																													
	JCC										Δ										Δ									
	Report								(Phase Sheet	1		4	MS(2	2)				4	MS(3)					Projec		ress Re _l Work F	oort (Pl		A

Work in Japan

Annex 4 Assignment Schedule

				31 32	33 3	34 3	35 36	37	38 3	39 40	41 42	43	44	45 46	47	48	49	50 51	L 52	53 54	55 56	57			Men	-Month		
	Position	Name	Company	4 5	6	7 0	FY2		11 1	12 1	2 2	1	5	6 7		FY2		11 12) 1	2 2	FY20		Pha	ase1	Pha	ase2		
ĺ				4 5	О	/ (8 9	10	11 1	12 1	Phase	2	5	0 /	٥	9	10	11 12	<u> </u>	2 3	4 5	0					Tota	al
	Phase			Sumr	mar Se	easor		U	Win	iter Ses	on	Ľ	Sumn	nar Seas	son			Winte	er Sesc	n			Site	Japan	Site	Japan	100	
	Tet Holidays										'20/1/	23-2/	2							'21	/2/10-16	5						
1	Team Leader/Food Value Chain	Mitsuru Nanakubo	Nippon Koei		(23) (1																		15.87		注 2.13		18.00	
2	Co-Team Leader/Distribution Improvement/ Marketing Promotion/Agricultural Finance	Chiyo Mamiya	КМС	(17)	(8)		L3) (17)		(4) (1	19)													11.90		2.60		14.50	
3	Cooperative Sales/Cooperative Purchase/ Vegetable Production (2)	Hideki Maruyama	Nippon Koei																				12.87		0.00		12.87	
3'	Cooperative Sales/Cooperative Purchase/ Vegetable Production (2)	Hironori Inoue	Nippon Koei		(29)		(16)	(14)			(21) (20)											0.00		3.33		3.33	
4	GAP System/Consumer Relations	Tamaki Tanaka	кмс		((7) (2	23)	(25)	(20)	(15)													6.50		3.00		9.50	
5	Vegetable Production (1)	Shiro Arai	Nippon Koei					(16)															4.20		0.87		5.07	
6	Gender Relations (1)	Natsuno Matsuura	Nippon Koei																				1.90		0.00		1.90	
7	Coordinator/Gender Relations (2)	Yuko Togawa	Nippon Koei																				0.00		0.00		0.00	
8	Coordinator/Marketing Promotion (2)	Takuto Hashimoto	кмс																				0.00		0.00		0.00	
9	Coordinator/Cooperative Sales (2)/ Vegetable Production (3)	Hiroki Takezawa	Nippon Koei																				0.00		0.00		0.00	
	Sub-Total																						53.24		11.93		65.17	
1	Team Leader/Food Value Chain	Mitsuru Nanakubo	Nippon Koei	(4)			3) (9)		(!		(8) (13) (9)	(8)	(6) (9)	(18)	(8)	(3) (3.6)	(13)	(6) (13)	(11) (10)	(6.4)		0.25		9.30		9.55
2	Co-Team Leader/Distribution Improvement/ Marketing Promotion/Agricultural Finance	Chiyo Mamiya	кмс									(6)						III			(12) (6)	П		0.35		5.03		5.38
3	Cooperative Sales/Cooperative Purchase/ Vegetable Production (2)	Hideki Maruyama	Nippon Koei																					0.45		0.00		0.45
3'	Cooperative Sales/Cooperative Purchase/ Vegetable Production (2)	Hironori Inoue	Nippon Koei										(5)					10) (2)		(13)) (16)		0.00		3.15		3.15
4	GAP System/Consumer Relations	Tamaki Tanaka	КМС													(2)	(3)		(1)					0.00		1.00		1.00
10	Cooperative Sales (3)/Cooperative Purchase (2)/ Vegetable Production (4)	Mitsuru Nanakubo	Nippon Koei															(8) (10						0.00		1.85		1.85
	Sub-Total																							1.05		20.33		21.38
	Total																					-	53.24			20.33		21.38
																							54.	.29	32	.26	86.5	5
	JCC				Δ									Δ								Δ						
	Report			•	Work P	Plan (Pl	hase 2)				A	MS(5)	i)						MS(7) oject Co	mpletion	Report 🛦							

Note: Work in Site Count
Work in Japan

Work in Site Country Work in Site Country (own cost)

Itinerary for JICA Knowledge Co-Creation Program

Title: Establishment of Safe Vegetable Supply Chain

Period: 2017/6/12 to 2017/6/21 Number of Trainee:

Purpose: To learn system of production and distribution of safe vegetable in Japan

1) To understand activities by public sector for production and distribution of safe vegetable

output: 2) To understand activities by producer for production of safe vegetable

3) To understand activities by buyer for distribution of safe vegetable

Date	Time	Туре	Theme		Trainer
		• 1		Name	Organization / Position
12-Jun	~		Trip (Hanoi -> Tokyo (Narita), VN310)	-	-
12 3411	~		T (II T 1		
13-Jun	~ ~	Lecture	Trip (Hanoi -> Tokyo (Narita), VN310) Briefing	To be Confirmed	JICA Tsukuba
	10:00 ~ 12:00	Field Visit	Activity of Agricultural Corporate to produce safe vegetable	To be Confirmed	Agricultural Corporate Sawara Agricultural Products Supply Center
14-Jun	15:00 ~ 17:00	Field Visit	Activity of "Sanchi" management, Distribution and Selling of Safe Agricultural Products (Example of Palsystem)	Tomoaki KUDO	GPS Co., Ltd./ Head of Business Division
	9:00 ~ 11:00	Lecture	Activity and Current situation of JGAP (Japan GAP)	Yasuaki TAKEDA	Asia GAP Research Institute, Certificated Specified Nonprofit Corporation/ Managing director
15-Jun	13:30 ~ 16:30	Field Visit	Case study of JGAP introduction	Yosuke TAMATSU KURI	Limited company Unionfarm / President
	9:30 ~ 10:30	Lecture	Establishment of safe and secure food "Sanchi" by Japan Agricultural Cooperatives	To be Confirmed	Japan Agricultural Cooperatives Chiba Midori
	10:30 ~ 11:00		Transportation		
16-Jun	11:00 ~ 12:00	Field Visit	Case study of safe and secure food "Sanchi" by Japan Agricultural Cooperatives	To be Confirmed	Asahi Collecting and Shipping Center
	14:00 ~ 15:00	Field Visit	System of Farmers' Store/ Direct selling store	To be Confirmed	Roadside Station "Kirari Asahi"
17-Jun	9:00 ~ 17:00		Preparation of Report etc		Trainees themselves/ Supervisor
i /-Juii	~				
18-Jun	9:00 ~ 17:00		Free day	-	-
10-Juli	~				
19-Jun	9:30 ~ 12:00	Lecture	Activity of stable supply of safe vegetable thorough establishment of "Sanchi", by public sector	Goki TAZAKI	Independent administrative Agency: Agriculture & Livestock Industries Corporation, Vegetable Department / Section manager
19-Juli	14:00 ~ 15:30	Lecture	Activity to establish Global Food Value Chain by public sector	To be Confirmed	Ministry of Agriculture, Forestry and Fisheries, International Affairs Department, Overseas Investment and Cooperation Division
	10:00 ~ 11:45	Field Visit	Activity for Production and distribution of Safe vegetable, for dissemination of JGAP	Hidetoku ITOGA	Japan Agricultural Cooperatives, Central Union of Ibaraki, Center of Agricultural Extension Support, Vice-Director of the Center
20-Jun	13:30 ~ 14:20	Field Visit	Activity to produce safe vegetable by producers group	Yu SONOBE	Japan Agricultural Cooperatives "Yawaraka" Green Onion producer group/ Representative
	15:00 ~ 15:50	Field Visit	Activity to produce safe vegetable by seed production company	To be Confirmed	Yanagawa Seed Production Research Co., Ltd.
21-Jun	10:00 ~ 13:55		Trip (Tokyo (Narita) -> Hanoi, VN311)	-	-
21 Juii	~				



LIST OF PARTICIPANTS IN "Establishment of Safe Vegetable Supply Chain" 2017年度 国別研修「安全野菜生産チェーンの構築」コース研修員リスト

June, 13, 2017 to June, 21, 2017

No.	Photo (写真)	Country (国名)	Name (呼び名)	役職/所属先	
	(子具)	D1701839	Mr. TRAN Xuan <u>Dinh</u>	Deputy Director General, Department of Crop Production, MARD, Director of	Hanoi
1	70	Viet Nam	<u> </u>	СРМИ	
	1 1	ベトナム	チャン スアン <u>ディン</u>	ベトナム国 農業農村開発省 農産物生産局 副局長/中央プロジェクト運営管理委員会 会長	
		D1701838	M NOUVEN H V	Chief of Administrative Office of Department of Crop Production, MARD, member	Hanoi
2	96	Viet Nam	Mr. NGUYEN Hoang <u>Viet</u>	of CPMU	
	7	ベトナム	グエン ホアン <u>ヴィェト</u>	ベトナム国 農業農村開発省 農産物生産局 事務局長/中央ブロジェクト運営管理 委員会 職員	
		D1701840	M NOWNEN W B	Expert of Food Crop Production Division, Department of Crop Production, MARD;	Hanoi
3	36	Viet Nam	Mr. NGUYEN Van <u>Dan</u>	Secretary of CPMU	
		ベトナム	グエン ヴァン <u>ザン</u>	ベトナム国 農業農村開発省 農産物生産局 食用作物課 専門家/中央プロジェクト 運営管理委員会 秘書	
		D1704837		Director of Hung Yen Agriculture and Rural Development Department, Director of	Hanoi
4	93	Viet Nam	Mr. NGUYEN Van <u>Doanh</u>	Hung Yen PPMU	
	To be	ベトナム	グエン ヴァン <u>ゾアイン</u>	フンイェン省 農業農村開発局 局長/フンイェン省プロジェクト運営管理委員会 会長	
		D1701834		Deputy Director of Ha Duong Agriculture and Rural Development Department,	Hanoi
5	33	Viet Nam	Ms. VU Thi <u>Ha</u>	Deputy Director of Hai Duong PPMU	
		ベトナム	ヴ ティ <u>ハー</u>	ハイズン省 農業農村開発局 副局長/ハイズン省プロジェクト運営管理委員会 副 会長	
		D1701836		Head of Crop Production Division, Ha Noi Department of Agriculture and Rural	Hanoi
6	36	Viet Nam	Ms. NGUYEN Thi <u>Thoa</u>	Development, member of Ha Noi PPMU	
		ベトナム	グエン ティ <u>トア</u>	ハノイ市 農業農村開発局 農産物生産部 部長/ハノイ市プロジェクト運営管理委員会 職員	
		D1701835		Sub-Department of Plant Protection, Ha Nam Agriculture and Rural Development	Hanoi
7	23	Viet Nam	Ms. TRAN Thi <u>Nga</u>	Department, coordinator of Ha Nam PPMU	
	1	ベトナム	チャン ティ <u>ガー</u>	ハナム省 農業農村開発局 植物防除課 職員/ハナム省プロジェクト運営管理委員会 調整員	

MARD : Ministry of Agriculture and Rural Development







Establishment of Safe Vegetable Supply Chain

• Objective:

- -Leanning the experiences for GAP vegetable production, distribution activities, GAP certificated system (organizing and management) in Japan
- -The activities of Farmer'farm; Agri cooperatives to the safe vegetable supply chain in JP
- From Jun, 13 to Jun, 21, 2017
- Expected Output:
- -To understand GAP in JP, process to enforce JGAP, Management and certification JGAP for Safe vegetable production
- -To understand distribution of safe vegetable by public sector and private sector
- -To understand activities by Buyer for distribution of safe vegetable

Participants

Name	Position	Organization
Mr. Tran Xuan Dinh	Deputy General Director	DCP; MARD
Mr. Nguyen Van Doanh	General Director	DARD Hung yen Provice
Mrs. Vu Thi Ha	Deputy General Director	DARD Hai Duong .Pro
Mr. Mguyen Van Dan	Officer	DCP, MARD
Mr. Nguyen Hoang Viet	Chief of office secrretariat	DCP, MARD
Mrs.Nguyen Thi Thoa	Leader crop division	DARD, Hanoi .Pro
Mrs.Tran Thi Nga	Vice leader crop division	DARD, Ha nam. Pro
THE STATE OF THE S	THAILAN DIÉN BÓN COM PLORIA STATE DE TRANSPORTE DE TRANSPO	DAC STAND Stand II Stand II Stand II Stand II Stand III Stand II Stand

Training Schedule

Date	Time	Туре	Theme	Trainer
13/Jun	PM	Lecture	Opening ceremony, introduce resident in TBIC	Leader of TBIC
14/Jun	AM	Field visit	Activity of agricultural corpora to produce safe vegetable	Agri corporate Sawara product supply center
	PM	Field visit	Activities of "Sanchi" management, distribution and selling safe Agri product by Pal. system	Head of business division, GPS Co.Ltd (Green Plaza System)
15/Jun	AM	Lecture	Activities and current situation of JGAP; Activities certification JGAP	Asia Gap Research Institute;
	PM	Field Visit	Briefting JGAP introduction; Organic farming in green house; Product: baby tomato, Celery cabbage,	Ltd. Company Unionfarm
16/Jun	AM	Lecture and factory visit	To visit and study about Establishment; tranportation of safe and secure food "SANCHI"; by Agri. Cooperative in JP	Agri. Cooperatives Chiba Midori Asahi collecting and Shipping center
	PM	Field visit	System of Farners' Store and direct selling shop	Kirari Asahi

Training Schedule (cont.)

Date	Time	Туре	Theme	Trainer
17- 18/Jun		Saturday Sunday	Free day	Consutant' staff in Tokyo
19/Jun	AM	Lecture	Activity stable supply of safe vegetable through establishment oa "Sanchi", by pulic sector	Indipendent administrative agency; Agri and livestock industries coporation; Vegetable Dep/ Section Manager
	PM	Lecture	Activities to establish Globle Food Value Chain by Pulic sector	Ministry of AFF; International Affairs Dep.; overseas investment and cooperation division
20/Jun	AM	Field visit	Activities for production and distribution of safe vegetable, for dissemination of JGAP	JP Agri. Cooperatives, Central Union of Ibaraki; Center of Agri Extension support. (vice Dir of center
	PM	Field Visit F.V	-Activities to produce safe vegetableby producer group- Activities to produce safe vegetableby seed production company	JA cooperatives, "Yawaraka" Green Onion producer group -Yamagawa seed production research CoLtd
21/jun	AM	Closing	Final Report for all participants; action plan	All participants, TBIC

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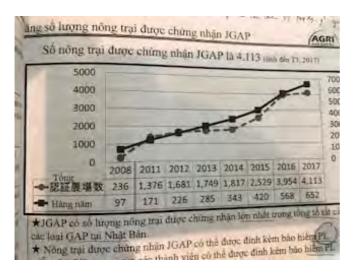
JA Sawara, 14/Jun



Visited a farmer who is a member of JA Sawara and observed farming practice for safe vegetable under GAP system

Internal monitoring; GPS systems (Green Plaza System)

Jun, 15- Asia GAP research Institute; JGAP in L.td Copany Unionfarm





JGAP approach from producers and consumers; GAP always listen and edit

To study for Experience in building and managing GAP in Japan

7

Jun, 16 - JA cooperatives Chiba, Midori; Case study of safe and secure food "Sanchi" and system of Farmer'store





The Farmer's store in Midori; direct selling store

Organic farming in Green house in Ibaraki

Jun, 19-IAA, Agri& Livstock, Industries cooporation MAFF, IAD;





To visit and study price stability fund

Activities to establish Globe Food Value Chain by Public sector

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Findings (phát hiện)

- Agriculture group Sawara: Farmers are constantly creating and making endless efforts;
- Cooperation, local community, mutual trust between producers and consumers; Education about safe agricultural production
- Attach production with environmental protection: Reduce fertilizer, Pesticide amount
- Supervision and self-examination: Featured internal monitoring
- Constantly improving quality of product.
- Each region has a safe production standard: Chiba GAP, IbakiGAP...
- Clear production management system.
- To built sales plans to plan production (Pal system). GPS area production management
- The approach to developing GAP is very clear and there is discussion among stakeholders including buyers; Always adjust, add GAP standards
- The distribution channels, consumption of safe vegetables in Japan are diverse and effective:
- Price stabilization project: agriculture and livestock industry corporation (alic)

^{*}safety standards certification: Global GAP, Other GAP

Output and Action Plan (1)

Output of	the	training in Japan	Actions t	o be implemente	d in the Proje	ect activity
Main Theme		Detail	Issue in the Project Site	Action to be implemented	Time schedule	Output of the Action
	1	To built and GAP standards issued; adjusted GAP	To produce according to GAP (VietGAP, Basic GAP)	Training, Guiding for farmer	Before, middle, and pre harvest season	Comments adjust the standards to suit practical. Increase producer' knowledge
1) To understand	2	To Evaluate and Examine the production plan	To analyse soil, water, product	Choose the suitable area for safe production	Before production season	Resulf analyse of samples
activities by public sector for production and distribution of	3	To organize production according to plan	To built plan	To organize production according to plan TOT	All production season	Production according to plan
safe vegetable	4	Support for quality control and GAP certification	To analyse vegetable sample	Take samples and analysed	Before harvest	Pesticide residues, metals
	5	To Support building sales systems, production to market plan	connected consumer	Looking for distributors: shops, supermarkets,	contract before season	Contract

Output and Action Plan (2)

Output of th	e trai	ning in Japan	Actions to b	e implemented	in the Proj	ect activity
Main Theme		Detail	Issue in the Project Site	Action to be implemented	Time schedule	Output of the Action
	1	Production planning	Small scale, no plan	Train for producer built plan	Every years	production Plan
	2	To keep production processes	Still arbitrarily,	Proposed process and farmer training	Every years	Producer'knowdle ge will be increase
2) To understand activities by producer for production of safe	3	Reduce insectice and fertilizer amount	The farmer intensive farming, used more fertilizer	Guide farmers to reduce fertilizer and pesticide	E.Y	Actualy Reducing fertilizer and pesticide
vegetable	4	To clear information of production	No transparency of information, recordkeeping	Design notes, training production	E.Y	Raising the ratio of farmers notes and progress to the transparency of information
	5	Closing cooperation in the production and sales	Not Yet the chain supply	To look for the partner consumed, link building		Formation of sales channels

Output and Action Plan (3)

Output of	the tr	raining in Japan	Actions to be implemented in the Project activity				
Main Theme		Detail	Issue in the Project Site	Action to be implemented	Time schedule	Output of the Action	
	1	The fist is food safety	Need to improve	Satisfying the needs of consumers	all time	product safety certification	
3) To understand	2	Good quality	Quality is better	all time		Satisfaction of consumers	
activities by buyer for distribution of safe vegetable	3	Convenience and reliability	Dístribution system for vegetable is not good	Step by step established a distribution system	All time	To Set up a distribution system in the point model	
	4	To practice with farmer and understanding producer	Not yet	Workshop for cútomer	Suitable time	Understanding and sharing of consumers	
	5	Understanding safe vegetables	Communication	TV, Newspaper, Website,	2008-2020		

Recommendation on policy and regulation for safe crop production in Vietnam

- To enforce production line a standard general safety; Adjusted VietGAP
- The provinces can develop standards of agricultural production safety
- Reorganize agricultural cooperatives
- Supplement and adjust policies to support the safe production
- Policies for associated companies to consume safe products
- Supporting for training to raise awareness on safe crop production
- Policies to support branding, establish new marketing channels, market opening
- Policies to support the production infrastructure and human resources training

Thank you very much for your kind attention



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Chuỗi rau an toàn, nhìn từ Nhật Bản

Nhật Bản là một nước công nghiệp cũng là một quốc gia có chiều dài từ Bắc xuống Nam tương tự Việt Nam, địa hình kéo tới hơn 25 vĩ độ; phía Bắc là khí hậu ôn đới, có nhiều tháng tuyết phủ, phía Nam khí hậu khá ấm áp. Diện tích đứng thứ 62 thế giới (Việt Nam thứ 66), tài nguyên không giàu, dân số trên 120 triệu người, hiện chỉ còn 3,9% số lao động làm nông nghiệp.

Hiện nay, Nhật Bản sản xuất rau quả trong nước mới đáp ứng khoảng 70 - 80% nhu cầu tiêu thụ nội địa, số còn lại phải nhập khẩu, tuy nhiên tiêu chuẩn kỹ thuật khá cao, đặc biệt việc kiểm tra chất lượng và an toàn thực phẩm, các chỉ tiêu phân tích, đánh giá lên tới hàng trăm. Nước này cũng xuất khẩu những mặt hàng rau quả cao cấp của họ tới các thị trường khác trên thế giới và được đánh giá cao về chất lượng, độ đồng đều, an toàn thực phẩm.

Vậy sản xuất và phân phối rau an toàn ở quốc gia này thế nào? Chúng ta sẽ học được gì từ kinh nghiệm của xứ sở mặt trời mọc? Xin được bàn luận và dẫn ra một số cách tiếp cận của họ.

GAP Ở NHẬT BẢN THẾ NÀO?

Việc xây dựng tiêu chuẩn sản xuất an toàn ở Nhật Bản có Ủy ban chung về GAP. Duới cơ quan này là một cơ quan chịu trách nhiệm về tập huấn, phổ biến GAP, họ đứng ra đào tạo Xây dựng sản xuất an toàn JGAP (Japanese GAP).

JGAP cho người sản xuất với gắn 4.000 giảng viên. Một cơ quan chịu trách nhiệm về cấp phép, họ cấp cho 4 đơn vị chúng nhận với 123 chúng nhận viên. Các chúng nhận viên này có nhiệm vụ kiểm tra, đánh giá và giám sát người sản xuất có yêu cầu chúng nhận và chịu trách nhiệm về chất lượng chúng nhận trước cơ quan của họ.

Xây dựng JGAP, cách tiếp cận rất mở và là từ dưới lên; người sản xuất, các doanh nghiệp, họp tác xã tham gia đồng góp cho việc xây dựng và ban hành tiêu chuẩn này. JGAP cũng thường xuyên được sửa đổi, điều chính cho phù hợp với yêu cầu của thị trường, của người tiêu dùng.

Về việc chứng nhận, thời điểm này Nhật Bản được yêu cầu chứng nhận sản phẩm theo các tiêu chuẩn JGAP hoặc Globle GAP vì năm 2020 thế vận hội Olympic được tổ chức ở đất nước này, theo



Thu hoach rau bằng cơ giới hóa

"Nông dân Nhật Bản sản xuất rau an toàn bằng cả trái tim". Đây là câu mà chúng tôi được nghe tại một họp tác xã sản xuất hành lá ở tỉnh Ibaraki. Và khắp nơi trên đất nước này, ý thức và nguyên tắc, tính kỷ luật của người dân là như vậy. Đúng là chất lượng, mức độ an toàn phải từ cái tâm của người sản xuất.

Quy trình gieo trồng, chăm sóc và sử dụng phân bón, thuốc bảo vệ thực vật, chế biến... nhất nhất tuân thủ hướng dẫn, sổ tay ghi chép đầy đủ và minh bạch. Với Việt Nam, tôi nghĩ kiên trì tuyên truyền, huấn luyện để "mưa dầm thấm lâu" rồi người sản xuất mới có được ý thức như nông dân Nhật Bản.

đó, các thực phẩm (rau, gạo, sữa, thịt...) phải được chúng nhận. Thực ra, họ không đặt nặng vấn đề chứng nhận vì tốn tiền của nông dân, cứ thấy cách thức nông dân Nhật làm, sự minh bạch trong việc thể hiện, ghi chép sản xuất và công khai thông tin sản xuất, nó còn có giá hơn cái tờ giấy chúng nhận kia nhiều. Ở Nhật, các tổ hợp tác hoặc HTX, doanh nghiệp rất chú trọng tới việc tổ chức trải nghiệm cho người tiêu dùng ở thành phố với các vùng, điểm sản xuất, đó cũng chính là hình thức du lịch trải nghiệm đồng quê để chia sẻ với nhau về nỗi cực nhọc của nông dân và họ làm thế nào để sản phẩm rau, thịt, sữa... đảm bảo an toàn thực phẩm. Chính vì vậy người tiêu dùng rất tin tưởng vào các sản phẩm nông sản của nước họ sản xuất.

Tiêu chuẩn JGAP xây dựng dựa trên sườn của GlobleGAP và mang tính bao quát, tuân thủ các quy định của Luật An toàn thực phẩm, tuy vậy các tính cũng xây dựng các tiêu chuẩn riêng của mình, các doanh nghiệp lớn cũng có tiêu chuẩn riêng về an toàn thực phẩm với sản phẩm rau quả của địa phương, công ty chẳng hạn như AEON.

Tiêu chuẩn này có thể đơn giản hơn, nhưng phần lớn là cao hơn tiêu chuẩn nễn chung. Họ nói rằng, với nông dân cần đưa ra các điểm đơn giản, dễ hơn để thực hiện, và khi ý thức sản xuất an toàn đã ăn vào máu thịt thì tiêu chuẩn được nâng lên, nâng lên là để đáp úng nhu cầu thị trường, nhu cầu ngày càng cao của người tiêu dùng, và bản thân doanh nghiệp, tổ hợp tác cũng như nông dân cũng luôn ý thức được rằng, cần phải làm tốt hơn và tốt hơn nữa để đảm bảo chữ tín với thị trường, trách nhiệm với xã hội và người tiêu dùng. Chưa khi nào người tiêu dùng quay lưng lại với sản phẩm mà nông dân sản xuất.

Hiện tại, các tiêu chí khuyến khích được đưa ra để đánh giá và bình chọn sản phẩm nông sản, đó là thân thiện với môi trường, giảm sử dụng phân bón hóa học và thuốc bảo vệ thực vật từ 30 - 50%. Thực ra trong cả một vụ trồng rau (ví dụ cải bắp), số lần phun thuốc bảo vệ thực vật trước đây bình quân là 6 - 7 lẫn, hiện với quy trình kỹ thuật mới đã rút còn 3 - 4 lẫn. CHIBA-ECO là một trong những tiêu chuẩn như vậy, nhưng phải nói rằng, nông dân tuân thủ nghiệm ngặt sử dụng thuốc bảo vệ thực vật, từ chủng loại, đến liều lượng và họ ghi chép tỷ mỉ, cảnh báo tỷ mỉ để không bị nhiễm chéo... (Còn nữa)

TRẨN XUÂN ĐỊNH

Chuỗi rau an toàn, nhìn từ Nhât Bản

(Tiếp theo và hết)

TỔ CHỰC SẢN XUẤT

Sản xuất rau, dù là các hộ nông dân hay các hợp tác xã, việc lập kế hoạch sản xuất dựa trên các đơn đặt hàng được làm rất cẩn trọng và chu đáo. Nông dân không hề sản xuất chạy theo phong trào, tất cả nhất định phải theo kế hoạch, mà kế hoạch này gắn với tiêu thụ ở trong vùng và liên vùng, được các cơ quan quản lý của ngãnh hướng dẫn và giám sát. Đây là những lý do không hề có chuyện "được mùa, mất giá" ở Nhật.

Hợp tác xã được tổ chức chặt chẽ và họ tham gia sản xuất kinh doanh đa ngành, kể cả tín dụng và du lịch.

Sản xuất ở Nhật cũng chuyên môn hóa sâu, vì vậy nó tạo được thương hiệu sản phẩm cho từng vùng, ví dụ dưa hấu là vùng Hokkaido hay Chiba, hành lá ở Ibaraki... Sản phẩm khi thu hoạch đưa vào siêu thị phải đảm bảo độ đồng đều cực cao, với hệ thống chế biến phân loại hiện đại; ngay cả cải bắp khi thu hoạch, những cây bắp cải dù rất bắt mắt, sạch sẽ nhưng khối lượng, kích thước nhỏ hơn quy định đều bị bỏ lại ruộng cây vùi làm phân bón.

Nhật Bản là quốc gia thuộc "tốp đầu" trong việc nghiên cứu về vi sinh vật, đặc biệt việc ứng dụng vi sinh trong phân bón. Phân bón cho sản xuất rau ở đây phần nhiều là hữu cơ vi sinh. Bón như thế nào, bao nhiêu đều dựa trên các khảo sát và phân tích dinh dưỡng đất một cách thường xuyên.

Câu hỏi được đặt ra là, trường hợp bất thuận, rau mất mùa, năng suất và sản lượng thấp, cung không đáp ứng cầu thì họ xử lý thế nào? Và trường hợp thời tiết thuận lợi, năng suất sản lượng rau cao, cung vượt cầu (yếu tố kéo giá)?

Chính sách điều tiết liên vùng của Nhật Bản rất tốt và khi vùng nào đó mất mùa do gặp thiên tai, rau, thực phẩm được nhà nước điều tiết và huy động từ các vùng khác, nhập khẩu và từ nguồn dự trữ. Còn trường hợp dư thừa, nhà nước trả tiền cho nông dân để có thể tiêu hủy, cây vùi luôn một phần diện tích rau làm phân bón. Do vậy mà không có tình trạng "đội chợ" như Việt Nam. Họ để đất nghỉ, bỏ hóa và có thể gieo trồng



Sơ chế và bao gói hành

mạch, kê hay cây họ đậu rồi cảy vùi cải tạo đất được làm luân phiên, vì vậy đất của họ rất tốt, tơi xốp và rất giàu mùn. (Ở Việt Nam, đất để hoang hóa một vụ là có chuyện rồi; mặc dù lý do là sản xuất không hiệu quả, là ở những vùng xen kẹp, khó khăn cho canh tác...).

QUỸ ỔN ĐỊNH GIÁ

Để ổn định giá cả thị trường, nhất là với rau, quỹ ổn định giá nông sản được chính phủ thành lập và giao cho một đơn vị điều hành có tên "Agricultural and Livestock corporation" viết tắt là "ALIC" thực hiện.

Quỹ này chịu trách nhiệm ổn định giá không chỉ với rau mà cả

giống như quỹ bình ổn giá song lại chủ động từ trước chứ không bị động, quỹ này tương tự bảo hiểm song họ không lo "vỡ quỹ" như ở Việt Nam. Không thể lợi dụng kẽ hở, càng không thể mượn cớ để trực lợi từ quỹ này. Quả là một cách làm mà ngay cả bảo hiểm cần học tập.

PHÂN PHỐI SẢN PHẨM

Khâu bán và phân phối sản phẩm của Nhật Bản khá đa dạng. Hệ thống chợ đầu mối và những phiên đấu giá mang dáng dấp công nghiệp, hiện đại. Chỉ riêng Tokyo đã có tới vài chục chợ đầu mối với quy mô từ 20 đến trên 50ha và hệ thống

kho lạnh kho mát hoàn hảo. Hệ thống phân phối khép kín với những quy định chặt chẽ từ sản xuất, thu mua và chế biến như PAL SYSTEM.

Hiện nay nhiều hợp tác xã tổ chức các cửa hàng bán sản phẩm nông sản cho xã viên, xã viên mang sản phẩm tới bày trên kệ hàng đã được hợp đồng, mỗi hộ có mã số, mã vạch riêng để truy

nguyên nguồn gốc, và cửa hàng thu tiền, giúp nông dân, giá tùy thuộc chất lượng, mẫu mã để người tiêu dùng có thể chấp nhận, đây là hình thức bán hàng ủy thác hiện đang mở rộng.

Một kiểu bán trực tiếp (Direct Sale) cũng đã xuất hiện và một nhóm người tiêu dùng đặt hàng thẳng cho nông hộ, trang trại để lấy nông sản hàng tuần cho nhóm mình sử dụng. Kiểu này được đánh giá là có độ tin cậy vì quen biết và địa chỉ rõ ràng, giám sát được song lại đỡ công chứng nhận, bao gói.

TRÂN XUÂN ĐỊNH



Khu sơ chế bắp cải an toàn

các sản phẩm chăn nuôi. Mục tiêu là ổn định sản xuất cho nông dân, không để xảy ra tình trạng "khủng hoảng" các sản phẩm nông sản. 60% quỹ được nhà nước trung ương lo liệu; 20% do cấp tỉnh chịu trách nhiệm và 20% đóng góp từ doanh nghiệp tham gia và nông dân. Sản xuất của các doanh nghiệp hoặc hợp tác xã tham gia tự nguyện vào quỹ này chịu sự kiểm soát chặt chẽ của ALIC.

Kế hoạch sản xuất, tiêu thụ được xây dựng chi tiết và được kiểm duyệt bởi cơ quan quản lý nhà nước, ngay cả chủng loại rau cũng được chỉ định thì mới đủ tiêu chí tham gia. Thực chất

Annex 5_2 Training in Japan (2nd)

Itinerary for JICA Knowledge Co-Creation Program

Title: Establishment of Safe Vegetable Supply Chain

Period: 2019/2/18 to 2019/2/23 Number of Trainee:

Purpose: To learn system of production and distribution of safe vegetable in Japan

1) To understand activities by public sector for production and distribution of safe vegetable

Output: 2) To understand activities by producer for production of safe vegetable

3) To understand activities by buyer for distribution of safe vegetable

Date	Time		Туре	Theme	Trainer		Location	Hotel	
Date			•	1 7 PC	Theme	Name	Organization / Position	Location	110101
17-Feb		?			Travel in Vietnam	-	-		-
18-Feb	1:45	~	7:20		Trip (Hanoi -> Fukuoka)	-	-		JICA Kyusyu
	10:00	~	12:30	Lecture	Administrative briefing	Aki CHIBA	Interpreter of the training	Fukuoka	
	13:30	?	14:30	Lecture	Program orientation	Norie NODA	JICA Kyusyu/ Staff of training department	Prefecture	
	15:30	~	17:00	Site Visit	Safety control in the food processing factory of cut vegetable	Katsuyuki KUROSE	JA (Japan Agricultural cooperative), Factory in Miyata/		
19-Feb	7:00	?	9:00	Site Visit	Logistics and sales of safety crops in wholesaler market	Tomonori TSUBAKI	Fukuoka Daido Seika Co., Ltd./ Manager		Hotel in Kumamoto Prefecture
	10:00	?	12:45	Site Visit	Sales of crops in the retail shop (Aeon Fukuoka)	Hideki MARUYAMA	Nippon Koei Co., Ltd./ The project expert	Fukuoka Prefecture	
	14:00	?	16:00	Site Visit	Production of the safety crops	MATSUKAGE	Agripro Co., Ltd./ President		
20-Feb				Lecture	Promotion of safe crop production by local government (To be confirmed)		Local government of Kumamoto prefecture (To be confirmed)		Hotel in Kumamoto Prefecture
				Site Visit	Crop production by company which has GAP certification (To be confirmed)		Crop production company (To be confirmed)	Kumamoto Prefecture	
21-Feb				Site Visit	Development of "Sanchi" (large production area) which are introduced GAP (To be confirmed)		JA (Japan Agriculture Cooperative) in Kumamoto prefecture (To be confirmed)		Hotel in Kumamoto Prefecture
				Site Visit	Activity of local production for local consumption (To be confirmed)		Market which producers can directly sell crops (To be confirmed)	Kumamoto Prefecture	
22-Feb	8:00	~	10:00	Site Visit	Cultivation methods and agricultural materials for safe crop production without agrochemical usage	SHIMODA and Tsunehiro ABE	Mitsubishi Chemical Agri Dream Co., Ltd. and New Agri Kumamoto Co., Ltd	Kumamoto Prefecture	
	13:30	~	15:00	Other	Preparation of Action Plan		All participants		JICA Kyusyu
	15:00	~	16:30	Presenta tion	Presentation of Action Plan		All participants	Fukuoka	
	16:30	~	17:00	Other	Evaluation of the training (To be confirmed)		All participants	Prefecture	
	17:00	~	17:30	Other	Closing ceremony		All participants		
23-Feb -	9:00	~	17:00		Trip (Fukuoka -> Hanoi)				

別添2研修員リスト

番号	写真	研修生番号	氏名	役職/所属先	
1		D1809844		Officer/ Department of Agriculture and Rural	
		Viet Nam	Mr. CAO Duy Hoa	Development, Vinh Phuc Provincial People's Committee	
		D1809845		Officer/ Crop Production	
2		Viet Nam	Ms. VU Thanh Quynh	Division, Department of Agriculture and Rural Development, Hanoi Provincial People's Committee	
		D1809846		Deputy Head/ Crop Production	
3		Viet Nam	Ms. NGUYEN Thi Them	Division, Sub-Dept. of Crop Production and Plant Protection, Department of Agriculture and Rural Development, Thai Binh Provincial People's Committee	
4		D1809847		Manager/ Sub-Department of Agro-	
		Viet Nam	Mr. TRAN Duc Nhan	Forestry-Fisheries Quality Assurance, Department of Agriculture and Rural Development, Hung Yen Provincia People's Committee	
		D1809848		Technical staff/ Department of	
		D1009040		Agriculture and Rural	
5		Viet Nam	Mr. NGUYEN Xuan Nam	Development, Hai Duong Provincial People's Committee	
6		D1809849		Deputy Manager/ Sub-Department	
		Viet Nam	Mr. NGUYEN Tien Dinh	of Crop Production and Plant Protection, Department of Agriculture and Rural Development, Ha Nam Provincial People's Committee	
7		D1809850		Deputy Head/ Legislation Division, Sub-Dept. of Agro-	
		Viet Nam	Ms. NGUYEN Thi Thu Huong	Forestry-Fisheries Quality Assurance, Department of Agriculture and Rural Development, Phu Tho Provincial People's Committee	

1. Findings from the training course in Japan

- Japan agricultural cooperative model: The Japanese agricultural cooperative model (JA) is characterized by the ability to perform multiple tasks. A local level cooperative can carry out a wide range of socioeconomic services. Japanese agricultural cooperative is the focal point for applying science and technology... JA takes an important role in food value chain in Japan.
- The wholesale market in Kumamoto: The design of this market is logically to make sure all trasportation fluently, the manager board also have good methods in managing the paying system with seller. I also impress on auction in market, this method can fooster selling agriculture product in market.
- Traceability system: I was impressed on traceability system in Japan; it is easy for the consumer to know how raw materials are cultivated or raised, using chemical fertilizers or antibiotics, harvesting time, management, production lines or quality control. In other words, all data related to the production process are publicly available.
- JGAP: Each perfecture in Japan has individual JGAP version base on the structure of JGAP, they can change to suitable with thier condition in order to encourage many farmers get this certificate.

 Traceability and integrity, from field to shipment, are mandated for agricultural products. By introducing GAP, farmer can reduce risks to your agricultural products, ensure quality and safety, and improve productivity while continuously moving toward the goal of sustainable agriculture.
- There is a common policy, but applying to each province, it has its own policy foreach province to implement special with policies on GAP, JGAP, ASIAGAP, GLOBAGAP.
- With high-tech vegetable production, farmers registered with local authorities will have support policy, maximum 30%.
- Farmers are protected by government for the value of agricultural production to ensure the profit for farmers.
- Farmers and local authorities discussed together to formulate policies for their own provinces and every year farmers submit to the provincial government one or two time to change policies to suitable for what farmers do.
- The provincial government builds up wholesale markets for traders, farmers, businessman and marketing to trade markets and pay service fees.
- Farmers formed up to the area, the concentrated production and buy machines to serve production to reduce input costs.
- Some processing companies associate with cooperatives and farmers to cover all farmers' good quality products.
- Farmers, buyers are very interested in stamps of traceability of vegetables with their own brand name.
- In particular, farmers, product purchasing area, and markets are interested in food safety and hygiene-farmers never use fertilizers and medicines of unclear origin.
- All collection points of new markets have cold storage to ensure that vegetables are not affected if the buyer has not yet delivery in time.
- The government encourages farmers to grow vegetables according to GAP because currently for GAP certified vegetables with higher selling prices and selling easier than products without GAP certification.

- GAP Training for Farmer from 3-4 times / year to understand, applying on theory and practice.
- Local authorities have a mechanism for trade promotion for farmers, trading inputs and sales in group. 100% of farmers use land and water before putting it into production.
- Way to implement JGAP in Japan (from JGAP, each city, province, district creates their own version of GAP).
- Wholesale market operation (Daido Seika vegetable and fruit company).
- The way to control the food safety in Fukuoka (the sample tests are taken at the market every day).
- Cherry tomato production following JGAP and apply high technology (the most impression is how to put CO₂ into the green house to increase photosynthetic efficiency for tomato, creating maximum yield, 150 ton/ha).
- The model of vegetable and fruit wet market of cooperatives in Japan.
- Model of application of high technology in safe vegetable production by hydroponic method and nursery bed treatment before seedling.
- In Japan, Agricultural production is very developed, there are many scientific and technological advances applied in production to help a lot reduce for the costs, the labor force to Vietnamese farmers.
- The processing and provide of agricultural products to come onto the market based on the needs of consumers to produce products satisfy the needs of consumers.
- Establishment of an agricultural auction market, this is the place where farmers buy and sell about agricultural products to cooperatives and production households.
- Agricultural production mainly uses machines, people only participate in light and meticulous jobs. This helps significantly reduced for labor costs and labour.
- Farmers are aware of compliance with Gap's regulations and always responsible for their products.
- Cooperative organization role is very important in the collection and interest for production households in Cooperative. In Vietnam, this matter is facing many difficulties problems.
- The products all have information about the manufacturer so that consumers can find and contact when they needed.
- The Government has policies to encourage famers to apply GAP in production, pre-processing, packing process. The policy mechanisms are consulted from the provincial level by getting comments from local people, then they are analyzed and summarized and submitted to competence authorities.
- Area/regional Development Promotion Committee are established to help famer to consume products. The Area development promotion committee assigns to company/individual/collective invest in preprocessing and facilities in washing, removing uneatable parts, sorting, packing, preservation, shipping and selling products.
- Establish different selling channels to promote product consumption: normal market, trade center, transaction and auction (big market).
- Farmers are encouraged to apply provincial GAP and JGAP and given high priority in selling products. The farmer can sell their products through Area/regional Development Promotion Committee (90%), a apart to be sell outside (10%).

2. Action plan

Technical technologies or measures, which were learned applied to project activities.

- Consultant the Vietnamese cooperative about how to enhance the role of cooperative, specializes in production, process and consumption in order to be easy to deploy collective production process, check quality, build label of product and sign contracts with retailers about consuming products (vegetable shops, supermarkets, etc.). Making a market investigation before planting to ensure that all products will be met their consumers' need.
- Recommend to built system electronic traceability that providing quick and clear data. Information is required to report at anytime, anywhere: in the distribution system, at the border. Information can be obtained through a barcode scanner, on a tablet, and on a mobile phone. This helps to reduce the regulatory burden on importers in reporting information sources.
- Propagating for farmers to carry out activities on VietGAP through training courses, group meetings, field surveys at concentrated production sites and farmers in the province.
- Looking for distribution channels for farmers, selling through clues of markets, retail stores, selling through traders and intermediaries.
- Propaganda farmers should handle soil and water before planting.
- Encourage the formation of a group to buy input products for production and sales focused to reduce the cost of products.
- Encourage farmers to use fertilizers, medicines of origin and in the permitted list.
- Forming point models associated with new technical from JICA's program to propaganda for farmers to implement in the province by applying methods such as Soil treatment before sowing and using Non-woven coating for planting.
- The way to implement JGAP in Japan (from JGAP, each province, city, district has it own version of GAP).
- The operation of wholesale market (Daido Seika safe vegetable and fruit company).
- Cherry tomato production following JGAP and apply high technology (the most impression is how to put CO₂ into the green hose to increase photosynthetic efficiency for tomato, creating maximum yield, 150 ton/ha).
- The model of vegetable and fruit wet market of cooperative in Japan.
- Need to survey consumer's needs, then give business strategy (for business establishments) or production plan (for producers) suitable to provide agricultural products in accordance with consumers tastes.
- Japanese people are very responsible for their products. strictly follow the GAP regulations in production, so that Vietnamese people to learn. For Vietnam, the government management agency needs to propagate, instruct households to produce about safe vegetable production regulations, VIETGAP helps to raise people's awareness and responsibility for their products.
- Orient, guide cooperatives to market, collection and consumption of products for production households.
- It is possible to use various kinds of agricultural machinery in the production process such as: plows, ridge machine to reduce labor.

- Support: label, packaging, product traceability stamps for producer.
- Apply GAP certificate in production and preprocessing /packing process.
- Soil treatment before vegetable cultivation to eliminate grass, diseases sources in soil.

Activities will be implemented in project activities

- Producing: Set up the traceability application to agriculture product which produce in project model to ensure that consumers can check the procedure from producing through processing until to selling point.
- Marketing: I think it is important to link marketing section and producing section. Design the small logo of project and labelling on this product. This is one of the advertising method for this project to customer. For example: In Hanoi, we use the some characteristic imagine in poster and using in two years for advertising campaign in schools. So, I think we can use this logo to attach to the vegetable bags so maybe when Hanoi citizens go to supermarket and see that logo then they know that these vegetables is safe.
- Propagating farmers to carry out activities on VietGAP through training courses, meetings with farmers, checking field diary.
- Encourage farmers to use fertilizers, medicines of origin and in the permitted list.
- There are plans to support farmers in some places to buy nonwoven coatings.
- Propaganda, encourage, mobilize the target groups to apply high technology in vegetable and fruit in the net house to produce off season vegetables and fruits and the CO2 technology application into the green house to increase photosynthetic efficiency for vegetable and fruit, creating maximum yield.
- Promote communication/ propaganda to widen the vegetable production area following VietGAP, basic GAP in the whole province area.
- Request to leaders to set up wet market where the famers can sell and introduce safe vegetable and fruits.
- Promote the knowledge and the benefit of vegetable followings GAP to the consumers to stimulate the consumption of safe vegetable, thus to encourage farmer to widen the safe vegetable following GAP.
- Apply GAP in preprocessing/packing process.
- Implement dissemination of soil treatment before vegetable cultivation.
- Strengthen propaganda, dissemination and guide for producers to understand the regulations on safe vegetable production of GAP. The propagating the benefits of producing safe agricultural products, thereby helping people to be conscious in the production process, responsible for their products.
- Should usually examination, monitor about vegetable production of farmers. sampling for product testing; Based on the results to given suitable advice to have been safe foods.
- If funds are available, research and prioritize the investment in some machines of agriculture, such as: small plows, ridge machine... This helps reduced for labor costs and labour. Support: label, packaging, product traceability stamps for cooperatives.

Annex 5_3 Training in Japan (3rd)

Itinerary for JICA Knowledge Co-Creation Program

Title	Establishment of Safe Vegetable Supply Chain
Period	2019/11/18 to 2019/11/24 (7 days)
Number of Trainee	6
Purpose	To learn system of production and distribution of safe vegetable in Japan
Expected output	 To learn about the production and distribution system of safe vegetables in Japan To learn about the experience of vegetable production area development in Japan To promote the introduction of advanced technologies and materials of Japanese companies contributing for safe vegetable production and food value chain development in Vietnam

Date	,	Time	;	Туре	Theme	Trainer
17-Nov	24:20	~		Other	Trip (Hanoi -> Tokyo (Narita), VN310)	
	7:00	?	10:30	Other	Narita International Airport - > JICA Tsukuba	
18-Nov	11:00	~	12:00	Field Visit	Briefing & Explanation of Training in JICA Tsukuba	Mr. Kurokawa, JICA Tsukuba
	15:00	~	17:00	Field Visit	Activity in Farm Introducing GLOBAL GAP	Ms. Kobayakawa, AEON Agri Create Co, Ltd, Kashiwa Farm
	10:00	?	12:00	Field Visit	Activity of Agricultural Corporate to Produce Safe Vegetable	Mr. Katori, Agricultural Corporate Sawara Agricultural Products Supply Center
19-Nov	15:00	?	17:00	Field Visit	Activity of "Sanchi" management, Distribution and Selling of Safe Agricultural Products (Example of Palsystem)	Mr. Muto, GPS Co., Ltd./ Head of Business Division
20-Nov	10:00	?	12:00	Field Visit	Horticultural Crop Cultivation by Using Advanced Greenhouse	Mr. Uetake, Genki Nojyo, Watanabe Pipe Co., Ltd.
	14:30	?	16:00	Field Visit	Visit to Farmer Using Greenhouse	Mr. Nemoto, A greenhouse strawberry farmer
21-Nov	10:00	~	12:00	Lecture	Activity and Current Situation of JGAP (Japan GAP)	Mr. Takeda, Asia GAP Research Institute, Certificated Specified Non-profit Corporation/ Managing director
	15:00	?	17:00	Field Visit	Case Study of JGAP Introduction	Mr. Tamatsukuri, Unionfarm
	12:00	~	13:00	Other	Greeting with a parliament member	Mr. Suzuki, Member of the House of Representatives
22-Nov	15:00	?	16:30	Other	Activity of Vegetables Processing (Cut vegetables) by Agriculture Cooperative	Mr. Shibama, JA Yasato Vegetable Cut Center
	17:30	?	18:00	Other	Closing Ceremony	All participants
23-Nov	11:00	~	13:00	Field Visit	Food Service Using Safe Crops certified with GAP	Mr. Tomori, Grand Eat Ginza
	13:00	~	16:00	Other	Free Activities	
24-Nov	10:00	~	13:35	Other	Trip (Tokyo (Narita) -> Hanoi, VN311)	

Source: JICA Project Team

Participant List 別添 2 研修員リスト

	,		1	1	
No	Photo	ID	Name	Position/ Organization	
		D1957352		Official Staff, Food Crop Division,	
1	(6.34)	Viet Nam	Mr.DUONG Van Dung	Department of Crop Production, Ministry of Agriculture and Rural Development	
		D1957355		Director, Sub Department of National	
2		Viet Nam	Mr.TRAN Nguyen Thap	Agro-forestry and Fisheries Quality Assurance, Department of Agriculture and Rural Development, Hung Yen Province	
		D1957338		Deputy Head of Crop Production	
3		Viet Nam	Mr.LE Thai Nghiep	Division, Department of Agriculture and Rural Development, Hai Duong Province	
		D1957340		Deputy Head of Technical Division, Sub	
4		Viet Nam	Mr.LE Van Diep	Department of National Agro-forestry and Fisheries Quality Assurance, Department of Agriculture and Rural Development, Ha Nam Province	
		D1957342		Director, YEN PHU Agriculture Service Cooperative	
5	1	Viet Nam	Mr.NGUYEN Huu Hung	A	
		D1957349		Deputy Director (Marketing/Sales),	
6		Viet Nam	Ms.PHAM Thi Huyen Trang	THANH HA Safe Fruit and Vegetable One-Member Limited Company	

1. Findings from the training course in Japan

1. Mr. Duong Van Dung (MARD)

- · Strengthen relationships of producers, consumers through site visit, direct dialogue.
- · Strict internal control mechanism
- · Consumption of products through a stable membership system, actively develop production plan and regulation in production.
- · In the bag of products, there is a comment sheet of the buyer.
- · Management of production tools in well organized and scientific manner, accessible to users' information.
- · There is an automatic nutrient supply system for plants according to the light intensity.
- Supplementing solutions to enhance photosynthesis capacity of plants, providing nutrition according to
 each stage of plant development depending on plant growth and development stages, with adjustment of
 nutrient content and pH accordingly.
- · Using the bedding with new materials, modern and appropriate equipment for each stage.

2. Mr. Tran Nguyen Thap (DARD, Hung Yen Province)

GAP:

- GAP system: JGAP, ASEANGAP, GLOBALGAP, ...: are researched and elaborated on the principle of eliminating risks in each stage of work of the production and business chain.
- Training, coaching, applying and managing GAP:
 - + Training and coaching: with spirit of small rains make long-term moister
 - + Application and management: Detailed specification; strict management

Production – Business:

- · Production: Limited pests and diseases:
 - + Mainly use of organic fertilizer (>=70%)
 - + Rotational cropping pattern: Cultivate different plant groups, species Example: Chrysanthemum,...
 - + Technique on using of vinyl roofed house, net house, mulch, hot water, temperature...
 - + Strict and scientific management of production; reasonable human resources arrangement.
- · Business: Develop production plans according to market development needs
 - + Good application of GAP standards
 - + Production associated with the market: from small to large
 - + Building trust and close relationship between producers and consumers: Well organize events such as field visits, harvesting and processing of fresh products on the spot. Promotional months for newly harvested products, formulation of customer feedback sheets.
 - + Developing a system of supplying safe products to consumers
 - + Applying information technology to promote brands and sell goods online
 - + Develop discount programs, promotions for products with large quantities.

3. Mr. Le Thai Nghiep (DARD, Hai Duong Province)

Production:

- There are many safe production methods currently applied in Japan: Organic production, Global GAP, JGAP, GAP of each province, GAP of Agriculture Cooperatives in Japan, system of stipulated suitable agriculture standards of Company, distributors, organizations. These production methods are finally all safe production, which creates trust for consumers. Producers must strictly record dairy of crop type, cultivation method, method of chemical application, method of pre-processing, packaging, etc.
- · For hydroponic production: Taking care: Based on light intensity to apply fertilizers
- · Farmer households, cooperatives organize seasonal production with suitable climate, regularly rotate

- without mono culture, so the crops develop well, less fertilizers and pesticides are applied, production is friendly to the environment.
- Production is based on plan of Companies, distributors, retail sellers: Plan is provided 6 months in advance, farmer households complete production plan and report to buyers 3 months in advance. 10 days before the products are available to supply to distributors, producers should inform distributors so that distributors can develop advertisement plan and sale plan.
- Plant protection drugs are in the list approved for use, are put in the cupboard with principle: liquid drugs are put at the bottom, powder drugs are put on the top. The cupboard is locked when not in use.
- · Apply soil treatment measures by nylon covering
- · Internal transportation system in the field is convenient for production and harvesting activities.
- · Good drainage system, ensuring there is no stagnant water in case of heavy rain.
- Synchronously mechanized from soil preparation, watering, fertilization, transplanting to increase labor productivity, reduce cost, reduce product price.
- The models are effective for Cooperative, companies, or organizations which hire land for centralized production.

Harvesting activities:

- Producer households, Cooperatives on behalf of farmers harvest products and sell products through 2 ways: Pack products following Company's requirement or sell raw products to companies, distributors, retail sellers so that they will pack products and directly sell to consumers
- Apply mechanization for harvesting products, sorting products right in the field. After harvesting, products will be pre-processed, stored in the warehouse, then are distributed to distributors and supermarkets by specialized vehicles.

For distributors, supermarkets and companies:

- Based on purchase plan, based on forecast and survey of market demand to launch product promotion campaign, place orders with producer groups, use internet to advertise and promote products. They directly distribute products to consumer's hand, therefore, middleman cost is reduced, storage cost is reduced, which is beneficial for both producers and consumers.
- · Organize the exchanges between producers and consumers, guide consumers how to grow vegetables, provide training on nutrition and product processing. From that, producers and consumers more understand each other, easy to share thought, create trust for consumers in term of product quality.
- Save information on electric system, labors will fulfill information on their activities on the system by themselves, after that, the information is aggregated and saved at main server.

4. Mr. Le Van Diep (DARD, Ha Nam Province)

Production:

- The soil is supplemented with fertilizer mainly organic fertilizer to increase resistance to crops, organic fertilizer accounts for 60%. The soil is covered with plastic film on summer days to kill pests and diseases. The soil is porous due to good improvement.
- Irrigation water for vegetables is clean water used for eating, tested once a year, with automatic irrigation system. Applying nutrient solution to hydroponic plants is automatically applied depending on the intensity of the light, the principle is: high light intensity adds more nutrients and vice versa.
- Plant protection drugs in the permitted list, must be kept in the cabinet on the principle of liquid medicine put on the bottom, powder medicine on top, locked when not in use. For plants that use netting, spray them on the mulch.
- · In-field roads are convenient for production and harvest activities.
- · Good drainage system, ensuring that when there is heavy rain, water is not stagnant to affect vegetables.
- · Applying mechanization in soil preparation, watering, and fertilizing is 100%. Having mechanized

harvesting equipment to improve labor productivity and reduce costs.

Harvesting activities:

 Applying mechanization to harvest products, sorting products right on the field, after harvested, products will be preliminarily processed and put into storage, the temperature of the storage ranges from 8-10 degrees, then transport by specialized vehicles to sale places

Pre-processing:

- Satisfied products will be sold to supermarkets or delivered to consumers, and oversized products will be
 provided to vegetable processing cooperatives for supplying to canteens with cheaper price, products are
 sliced, sterilized, vacuum packed, stored at 15 degrees and supplied to sales places within 96 hours
- Based on forecasts close to market demand to launch product promotion campaigns and place orders with production groups, using the internet to promote products. Distribute to consumers in specialized vehicles.
- Organizing communication events between producers and consumers, guiding consumers to grow vegetables, training in nutrition and product processing, so that producers and consumers understand each other better and are easy to share, creating consumer trust in product quality
- Store information on the electronic system, employees will fill in information about their activities on the system, then be aggregated and saved at the server.

5. Mr. Nguyen Huu Hung (Yen Phu Agriculture Service Cooperative)

- During the application of GAP, has to evaluate and check, remind the labors and Company staff at least 1 time. Especially, for workers and new staff have to be evaluated, checked, and reminded at least 2 times/year
- Well manage harvesting tools, pre-processing tools and delivering tools. Especially, working labor in each stage.
- For example: Harvesting tools of this stage can't be used for another stage, labors must wear protective cloth, no smoking, not wear jewelry during the working time, etc.
- Do not raise cattle and poultry in the production area, well manage mouse, harmful insects and diseases It is detected that net house can used for long term by farmer households.
- · Apply production rotation to avoid insect, diseases in order to reduce the use of pesticides.
- · Pre-processing house must be one-way (can be applied in Cooperative).
- · Improve soil in order to make it soft and well drained
- · Treat soil and eliminate the insect, disease and wild weed
- · Crop rotation
- · Develop plan for production and consumption
- · Manage harvesting and pre-processing during GAP implementation
- Manage pesticides and protect environment

6. Ms. Pham Thi Huyen Trang (THANH HA Safe Fruit and Vegetable One-Member Limited Company)

After visiting high-tech strawberry production model of farmer households in Ibaraki province, I have learned some cultivation methods as following:

- · First, raise bees to pollinate in green house
- Second, use some tools and facilities helpful for caring and pruning crops in net house in order to reduce labor cost.
- Third, when the weather is not sunny enough and cold, use electric lights to increase temperature for crops, stimulate flowers to bloom.
- Fourth, farmers are hard-working, working age in agriculture is from 22 80 years old.
- · Fifth, invest machineries in agriculture to improve economic value, reduce working labor, reduce cost of

input in order to increase income for production households.

Production:

- · Lack of labor in production
- · Apply effective high technology
- · How to compost to seriously protect soil
- · Comply with GAP, JGAP and organic procedures, etc.
- Make production plan
- · Self-manage safety production
- Keep and publicize production dairy
- · Effectively rotate crops in order to avoid insects, diseases and renovate soil
- · Treat soil by sun heat in the sunniest time of the year to kill soil-borne germination.
- Apply many machineries into production mechanization in each stage from sowing seed, caring, watering, harvesting, etc.
- · Produce following production plan ordered by customers

Linkage for consumption:

- · Farmers can't make price decision
- · Buy agro-products through Cooperative
- · Comply with linkage rules set fourth by Cooperative and buyers
- · Internal audit
- Receive orders sent by customers -> Make production plan -> Internal audit -> Collect products to the warehouse -> Deliver to consumption areas.
- · Consider customer's responses to have production plan

Product:

- · High requirements including not only quality, but also appearance and label
- · Ensure the safety because most of products are directly eaten as raw products
- All stages from transplanting, caring to harvesting must ensure strict requirements of safety procedure and avoid physical, chemical and biological risk for products.
- · Products are safe and have nice appearance.

Customers

- · Diversify customers and be potential market for Tokyo, restaurants, industrial kitchens in Japan.
- · High requirement for agro-products
- · Online orders and ship to customer's houses
- · Make production plan when customers provide orders
- Well take care customers to have two-way information and suitably adjust production => Satisfy customer's requirements Sell products demanded by customers.

2. Action plan

1. Mr. Duong Van Dung (MARD)

- Soil treatment with plastic sheet in the summer months, rotational cropping with non-family and antagonistic plants, product supply slips with feedback forms, seek customers to have an active production plan.
- · Disseminate knowledge to JICA project participants in a spreading method.
- There is a close cooperation between Japanese and Vietnamese enterprises in technology transfer: seeds, equipment and machines in production, harvest, storage, processing and consumption of products.

2. Mr. Tran Nguyen Thap (DARD, Hung Yen Province)

- Increasing investment, training for producers, processors and markets associated with increased inspection.
- Improve, organize the management apparatus for the application of GAP standards in production and business of target groups
- · Apply the above experiences to limit pests and diseases
- · Need to promote the use of organic fertilizers to reduce chemical fertilizers
- Application of the above-mentioned market experiences to market development on the basis of appropriate planning.
- · Always renovate designs, stamps to meet the needs of customers
- · Strengthening friendly links between producers and consumers

3. Mr. Le Thai Nghiep (DARD, Hai Duong Province)

Application of technologies and technical measures:

- Reduce production of off-season products, should produce seasonal products with suitable weather conditions, rotate many kinds of crops
- Guide producers increase the application of organic fertilizers to supplement more nutrition for soil, increase the resistance for crops.
- · Guide groups to apply nylon covering in the hot summer days to kill harmful pests and diseases.
- Suggest producer groups to find a formula for adding nutrition for hydroponic plants. The nutrition content depends on the need of plants and light intensity.
- Guide farmer groups to use cupboard for keeping plant protection drugs: drugs are put into tray, the liquid drugs are at the bottom, the powder drugs are on the top.
- · Advise the design of internal field road system to ease the production and harvesting of products, redesign the drainage ditch system in the production area to avoid stagnant water in case of heavy rain.
- Encourage producer groups to invest equipment, machines intro production, spraying, harvesting, preprocessing, processing products.

For consumption and business matching:

- Search, introduce, expand distributors, retail sale organizations of such products as rice, meat, fish, aquatic products and fruits who sell their product via on-line. Ask them to also sell vegetables on-line. Introduce them to visit safe production area, cooperative and organizations. They can place orders of products which have been pre-processed, sorted, labeled based on purchase requirement to directly sell on-line to consumer's hand.
- Support to organize the meeting and exchange between producers and consumers so that consumers can trust producers. Bring consumers and their relevant members to visit the field and experience production so that they can understand about safe production and they can share difficulties with producers.

4. Mr, Le Van Diep (DARD, Ha Nam Province)

- Guide producers to increase organic fertilizer application to supplement nutrients for the soil, increase resistance to crops. Instruct groups to use plastic mulch to cover the soil on hot summer days to kill pests and diseases of vegetables. Suggest for producer groups to find a formula to add nutrients to hydroponic plants with nutrient content depending on the needs of the plant and light intensity.
- Instruct groups to use the pesticide containing cabinet so that the pesticide is put in the tray, the liquid drug is put on the bottom, the powder is on the top.
- · Advise Thanh Tan Co-operative to design convenient in-field roads to produce and harvest products, redesign drainage systems so that the production areas will not be inundated during heavy rains.
- Introduce to groups of investment in equipment and machinery in production, spraying, harvesting, preprocessing and processing products.
- · Advise vegetable buyers in Ha Nam to approach online sales, ship goods to consumers.
- Supporting the organization of communication/exchanges between producers and consumers so that consumers can share difficulties with producers and have faith with producers.
- Advise to help groups to invest in development of electronic boards for producers to fill in activities, this information will be updated to the server system, which is the product traceability information.

5. Mr. Nguyen Huu Hung (Yen Phu Agriculture Service Cooperative)

Techniques applied for Project activities:

- · Use, invest glass house, net house in vegetable production
- · Drip irrigation system
- · Use computer to manage the crop caring procedure
- Increase the absorption for crops (vinegar + calcium)
- · Apply mechanization into production

Action to be done in Project activities:

- · Renovate soil
- · Manage the use of pesticides and protect environment
- · Manage working tools, harvesting tools, pre-processing tools
- · Regularly conduct internal audit following GAP standard
- · Create regular relationship with customers

6. Ms. Pham Thi Huyen Trang (THANH HA Safe Fruit and Vegetable One-Member Limited Company)

Techniques applied for Project activities:

- Nurse seedlings before transplanting
- Invest some tools serving production such as: Irrigation machine, trolleys, trays, baskets to keep products, etc.
- Use, invest glass house, net house to produce high value crops such as: Net melon, baby tomato, baby cucumber, etc.
- Apply 4.0 technology to advertise and sell products through on-line channel.
- Manage labor source, working equipment and tools, irrigation process and caring process by computer software.

Methodologies applied for Project activities:

- · Actively attend training courses on safe vegetable production
- · Field visit to actual models to take lessons learned
- · Make production plan based on seasons and orders

- · Find potential market.
- · Sell products on-line
- · Propagate, promote and encourage elderly labors in Vietnam to join production to increase income
- · Establish safety chain: "From farm to dinner table"

Action to be done in Project activities:

- Re-arrange management structure: Clearly assign mission for each team and provide them with responsibility - connecting responsibility of each person into Company to develop company increasingly and sustainable.
- · Company with VietGAP procedure and LoboGAP
- Regularly provide labor with trainings, so that they are aware of their responsibility so that they will produce safe products.
- · Maintain production dairy, make detail production plan.
- Regularly exchange information with customers to receive their feedback and evaluation, create close relationship with customers.
- · Update production information and market information, product appearance to satisfy customer's demand.
- · Renovate soil and protect environment

End

Annex 6 List of Equipment

物品名称 (Name of Property)	規格·品番 (Standard, Part Number)	個数 (Quantity)	検査合格日 (Date of Inspection Passed)	配置場所 (Location)	事業終了後の 取扱い (After Completion of Project: Handover/Return)
Projector	Panasonic PT-VW350	1	2016/11/2	Project site	Handover to the Counterpart

MINUTES OF MEETING

OF

THE 1ST JOINT COORDINATING COMMITTEE

ON

THE PROJECT FOR IMPROVEMENT OF RELIABILITY OF SAFE CROP PRODUCTION IN THE NORTHERN REGION

The Project for Improvement of Reliability of Safe Crop Production in the Northern Region (hereinafter referred to "the Project") supported by Japan International Cooperation Agency (hereinafter referred to "JICA") officially started in July, 2016.

The 1st meeting of Joint Coordinating Committee (hereinafter referred to "JCC") was held on April 17, 2017 for the purpose of introducing Background of the Project Formation, Overview and Progress of the Project, reporting summary of the Baseline Survey, Market Survey and Consumer Survey, and seeking for an approval for the Selection of the Target Groups, Revision of the Project Design Matrix (PDM) (ver. 1) and Pilot Project Implementation Plan. The meeting also discussed about preparation of fund for the Project activities.

As a result of the meeting, the Vietnamese side and Japanese side shared common understanding upon the matters in the documents attached hereto.

RD

Hanoi, April 17, 2017

Mr. Naoki Kakioka

Senior Representative

Vietnam Office

Japan International Cooperation Agency

Office

Japan

Dr. Le Quoc Doanh

Vice Minister

Ministry of Agriculture and Rural Development

The Socialist Republic of Vietnam





Mr. Nguyen Van Suu

Vice Chairman

Hanoi People's Committee

The Socialist Republic of Vietnam



Mr. Nguyen Minh Quang

Vice Chairman

Hung Yen Provincial People's Committee

The Socialist Republic of Vietnam

NGUYÊN ANH CƯƠNG

Mr. Nguyen Anh Cuong

Vice Chairman

Hai Duong Provincial People's Committee

The Socialist Republic of Vietnam

Mr. Truong Minh Hien

Vice Chairman

Ha Nam Provincial People's Committee

The Socialist Republic of Vietnam



Mr. Pham Van Xuyen

Vice Chairman

Thai Binh Provincial People's Committee

The Socialist Republic of Vietnam



Vice Chairman

Vinh Phuc Provincial People's Committee

The Socialist Republic of Vietnam



Mr. Nguyen Thanh Hai

Vice Chairman

Phu Tho Provincial People's Committee

The Socialist Republic of Vietnam

PHÓ CHỦ TỊCH Vũ Chỉ Giang







I. GENERAL INFORMATION

- **Time:** from 13:30 to 16:55, Monday, April 17th, 2017.
- Venue: Conference hall 102, B6 Building, Ministry of Agriculture and Rural Development
- Chairperson: Mr. Vu Van Minh, Deputy Director General of International Cooperation Department,
 Ministry of Agriculture and Rural Development (MARD)
- Meeting Agenda: Attached in Annex I
- List of Participants: Attached in Annex II

II. OPENING

- 1. Mr. Tran Xuan Dinh, Deputy Director General of Department of Crop Production (DCP), MARD, introduced participants and meeting agenda. He also gave an explanation about the situation while Record of Discussion of the Project has been signed and implementation of the Project has started already, all administrative procedures in Vietnam have been delaying after the replacement of Decree No. 38 by Decree No. 16 on Management and utilization of Official Development Assistance (ODA) and Concessional Loan of Donors and the Project has been facing a difficulty to arrange fund. He also stressed that MARD pay a lot of attention to the safe crop.
- 2. Mr. Vu Van Minh, Deputy Director General of International Cooperation Department, MARD, delivered opening remarks and shared current situation of the agriculture in Vietnam. He also emphasized that Vietnamese government has been paying attention to food safety issue and strengthening capacity and awareness of safe crop production of farmers. He hoped JCC meeting could be an opportunity for all stakeholders to agree on implementation plan to achieve project target.
- 3. Mr. Naoki Kakioka, Senior Representative of JICA Vietnam Office, delivered speech on behalf of JICA. He appreciated MARD to support the Project, value chain development and JICA generally. He gave an explanation about the background of the Project formation and mentioned common understanding that food safety and safe crop production are important issues in Vietnam. He stressed that motivation of Vietnamese side and budget and staff allocation are essential for the success of the Project. He highly suggested provinces to consider how to implement the Project, and requested all counterpart authorities to utilize available budget source to implement project successfully.
- 4. Mr. Tran Xuan Dinh, Deputy Director General of DCP, MARD presented brief summary of the previous project as a background of the Project formation.
- 5. Mr. Teruyoshi Kumashiro, Chief Advisor, gave a presentation on the overview, progress and upcoming plan of the Project. He also introduced a basic approach of the Project.
- 6. Mr. Mitsuru Nanakubo, Team Leader of Short Experts, reported summary of Baseline Survey.
- Ms. Chiyo Mamiya, Co- Team Leader of Short Experts, reported summary of Market Survey and Consumer Survey.
- 8. Mr. Mitsuru Nanakubo made a presentation on the Selection of the Target Groups
- 9. Mr. Teruyoshi Kumashiro presented the Revision of the PDM
- 10. Mr. Mitsuru Nanakubo gave a presentation on the Pilot Project Implementation Plan.

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- 11. The chairperson sought for comments for each agenda, then approval from JCC members.
- 12. Mr. Phung Huu Hao, Deputy Director General of National Agro-Forestry, Fisheries Quality Assurance Department (NAFIQAD) gave some comments for the effective project implementation.
- 13. Mr. Vu Van Minh delivered closing remarks.

III. MAIN CONTENTS

1. Background of the Project formation

Mr. Tran Xuan Dinh reported a summary of the previous project "Strengthening the Capacities for the Field of Management of Vietnam's Crop Production Sector for Improving the Productivity and Quality of Crop's Products in Vietnam" as a background of the Project formation.

Key recommendations from the previous project were 1) Building strategy in promoting safe crop production for small scale farmers in order to enable them to apply GAP, 2) Raising awareness of all stakeholders, 3) Building a trust in the safety of the products and 4) Creating a linkage to organize production following supply chain.

2. Overview and progress of the Project

Mr. Teruyoshi Kumashiro introduced overview, project implementation structure, and reported progress and upcoming plan of the Project with a flow of project implementation. He also presented four basic approaches for the three components of the Project, 1) production, 2) supply chain, 3) communication, and 4) cross cutting issues.

3. Summary report of Baseline Survey

Mr. Mitsuru Nanakubo reported objectives and main findings of Baseline Survey. Implications for pilot project from the Survey results were also presented.

4. Market Survey and Consumer Survey

Ms. Chiyo Mamiya reported objectives and main findings of Market Survey and Consumer Survey respectively. Implications for pilot project and communication activities derived from the Survey results were also presented.

5. Selection of the Target Groups

Mr. Mitsuru Nanakubo made a presentation on the selection of Target Groups. In the presentation, selection criteria for target groups agreed in the Record of Discussion of the Project, selection process and assessment results of the candidate target groups were stated clearly.

6. Revision of the PDM (Annex III)

Revision of the PDM was presented by Mr. Teruyoshi Kumashiro. Main points of the Narrative Summary revision and background basis for setting Objectively Verifiable Indicators were reported.

7. Pilot Project Implementation Plan (Annex IV)

Mr. Mitsuru Nanakubo gave a presentation on the Pilot Project Implementation Plan. In the presentation, objective of pilot project implementation, pilot project implementation flow chart, activities of pilot project, implementation structure with roles and responsibilities of relevant stakeholders and implementation schedule were announced.

IV. DISCUSSIONS

1. Selection of Target Groups

- Representatives from Hanoi Department of Agriculture and Rural Development (DARD), Hai Duong DARD, Ha Nam DARD and Hung Yen DARD agreed on the target groups which were selected through the close cooperation between DARD and JICA project team.
- Selection of Target Groups was approved by the JCC members.

2. Revision of PDM

- Ms. Vu Thi Ha, Deputy Director of Hai Duong DARD, raised question relating to the Output 2 of the Project that while project activities mainly focus on Basic GAP, what is the positioning of Viet GAP and Global GAP which some target groups already applied and got certificates for. She also requested to include information regarding GAP and even organic vegetable production in the TOT (Training of Trainers) and TOF (Training of Farmers) of the project.
- Mr. Teruyoshi Kumashiro, Chief Advisor, commented although technical dissemination activities mainly focus on Basic GAP, the scope of the Project does not limit to Basic GAP only, but considers other GAPs inclusively as well.
- After discussion, JCC members approved Revision of the PDM.

3. Implementation Plan of Pilot Activities

- Ms. Vu Thi Ha, Deputy Director of Hai Duong DARD, and Mr. Nguyen Van Phu, Deputy Director of Hung Yen DARD, raised concern about the needs for certificate in order to build trust with consumers and disseminate Basic GAP in a wide scope.
- Mr. Tran Xuan Dinh, Deputy Director General of DCP, commented application of Basic GAP is on a voluntary basis and the Project rather focuses on the marketing activities to encourage farmers to apply Basic GAP.
- Mr. Teruyoshi Kumashiro, Chief Advisor, mentioned issuing certificate is not the only way, the Project will take another approach to build trust.
- After discussion, Implementation Plan of Pilot Activities was approved by the JCC members.

4. Preparation of Fund for the Project Activities

- Ms. Vu Thi Ha, Deputy Director of Hai Duong DARD, raised concern about the proper method to prepare the fund for the Project activities. In addition, regarding PPMU budget of pilot activities prepared by project team for pilot provinces (17 out of 28 activities), she mentioned that it is not so suitable because PPMU budget covers around 50% of total cost while budget allocation from Vietnamese side is maximum 10% of the aid budget according to financial management rule.
- Ms. Nguyen Thi Vang, Deputy Director of Ha Nam DARD introduced the situation of promoting safe crop production in Ha Nam. She also shared the case of Ha Nam in which PPMU secured some fund applying advance payment for initial project activities and requested Central Project Management Unit (CPMU) to accelerate the procedure of project approval for counterpart budget preparation by provinces.

Mr. Tran Xuan Dinh, Deputy Director General of DCP, mentioned there are a lot of programs in food

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safety issues in Vietnam and suggested DARD to integrate the Project activities with other activities to mobilise available fund without detailed estimation by CPMU.

- Regarding PPMU budget of pilot activities prepared by project team, Mr. Teruyoshi Kumashiro, Chief Advisor, answered that it covers only the direct cost of pilot activities, while the total aid budget includes costs such as experts, equipment/other operating costs and training in Japan in addition to the direct cost of pilot activities. Additionally he mentioned 10% budget allocation rule from Vietnamese side is applied for total project cost, not for the cost of each province and that it is also very difficult to estimate the above mentioned inclusive aid budget for each province.
- After discussion, MARD and DARD of Pilot and Semi-Pilot city and provinces confirmed to secure
 the fund for carrying out the project activities before as well as after approval of the project by the
 government of Vietnam.

5. Other Comments

Mr. Phung Huu Hao, Deputy Director General of NAFIQAD addressed following comments.

- Concerning the marketing, trust from consumers is essential for the stable market and the Project should consider branding of products and establishment of traceability.
- There is an inter-department close relationship at the central government, and NAFIQAD and Department of Plant Protection will assist the Project.
- Provincial DARD should mobilize Sub-department of NAFIQAD in the implementation of the Project activities.

V. CONCLUSION AND CLOSING REMARKS

Mr. Vu Van Minh made closing remarks:

- All JCC members approved Selection of Target Groups, Revision of PDM and Implementation Plan of Pilot Activities.
- All JCC members agreed on the preparation of fund for the Project activities.
- MARD highly values the Project addressing necessary issues, enhancing awareness of farmers and increasing trust of consumers.
- ICD requests DCP to summarize and submit report to MARD for continuous implementation of the Project and preparation of fund for the Project activities.
- On behalf of ICD and MARD, Mr. Minh appreciates JICA to implement projects for many years and hope the Project will be successful and achieve its objective.

The meeting ended at 16:55.

[End]

ANNEXES

Annex I: Meeting Agenda
Annex II: List of participants

Amex III: Project Design Matrix (PDM) (Version 1)

Annex IV: Pilot Project Implementation Plan

Annex I: Agenda for Joint Coordinating Committee Meeting Project for "Improvement of Reliability of Safe Crop Production in the Northern Region"

Date: April, 17, 2017 Time: 13:30 – 16:45

Venue: Conference Hall 102, B6 building, Ministry of Agriculture and Rural Development, 2 Ngoc Ha,

Hanoi

Time	Contents	Presenter
13:00 - 13:30	Registration	Organization board
13:30 - 13:40	Introduction of participants	Department of Crop Production
13:40 – 13:50	Opening remarks	Mr. Vu Van Minh, Deputy Director General of International Cooperation Department (ICD), Ministry of Agriculture and Rural Development (MARD)
	Welcome address	Mr. Naoki Kakioka Senior Representative JICA Vietnam Office
13:50 – 14:00	Background of the Project Formation	Mr. Tran Xuan Dinh Deputy Director General of Department of Crop Production
14:00 – 14:10	Overview and Progress of the Project	Mr. Teruyoshi Kumashiro Chief Advisor
14.10 14.00	Result of the Baseline Survey	Mr. Mitsuru Nanakubo Team Leader of Short Experts
14:10 – 14:30	Results of the Market Survey and Consumer Survey	Ms. Chiyo Mamiya Co-Team Leader of Short Experts
14:30 - 14:40	Selection of the Target Groups	Mr. Mitsuru Nanakubo
14:40 - 14:50	Revision of the PDM	Mr. Teruyoshi Kumashiro
14:50 - 15:00	Tea break	
15:00 - 15:30	Pilot Project Implementation Plan	Mr. Mitsuru Nanakubo
15:30 – 16:30	Discussion and Approval - Selection of the Target Groups - Revision of the PDM - Pilot Project Implementation Plan - Preparation of Counterpart Fund	All Participants
16:30 – 16:45	Closing remarks	Mr. Vu Van Minh, Deputy Director General of ICD

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Annex II: List of Participants

No.	Name	Title	Organization		
		Ministry of Agriculture an	d Rural Development		
1	Mr. Vu Van Minh	Deputy Director General	International Cooperation Department (ICD)		
2	Mr. Phung Huu Hao	Deputy Director General	National Agro-Forestry, Fisheries Quality Assurance Department (NAFIQAD)		
3	Ms. Do Thi Ngoc Huyen	Staff	NAFIQAD		
4	Mr. Bui Xuan Phong	Staff	Department of Plant Protection		
5	Ms. Hoang Thi Hong Van	Deputy Head of Division	Cooperative and Farm Division, Department of Cooperative and Rural Development		
6	Mr. Tran The Cong	Staff	ICD		
		Ministry of Indust	ry and Trade		
7	Mr. Duong Xuan Dieu	Staff	Department of Science and Technology		
		Central Project Ma	nagement Unit		
8	Mr. Tran Xuan Dinh	Deputy Director General	Department of Crop Production (DCP)		
9	Mr. Nguyen Van Dan	Staff	Food Crop Division, DCP		
10	Mr. Tran The Tuong	Deputy Head of Division	Quality Management and Environment Division, DCP		
		Pilot and Semi-Pilot	City/Provinces		
11	Mr. Nguyen Xuan Dai	Deputy Director	DARD, Hanoi City		
12	Ms. Nguyen Thi Thoa	Head of Division	Crop Production Division, Department of Agriculture and Rural Development (DARD), Hanoi		
13	Ms. Vu Thi Ha	Deputy Director	DARD, Hai Duong Province		
14	Mr. Nguyen Van Phu	Deputy Director	DARD, Hung Yen Province		
15	Mr. Tran Nguyen Thap	Head of Sub-Department	Sub-Department of NAFIQAD, DARD, Hung Yen Province		
16	Ms. Nguyen Thi Vang	Deputy Director	DARD, Ha Nam Province		
17	Ms. Tran Thi Nga	Deputy Head o	f Sub-Department of Crop Production and Plant Protection, DARD, Ha Nam Province		
18	Mr. Le Van Dung	Deputy Director	DARD, Vinh Phuc Province		
19	Ms. Thieu Thi Thu Hang	Deputy Head o	f Sub-Department of Crop Production and Plant Protection, DARD, Vinh Phuc Province		
20	Mr. Tran Tu Anh	Deputy Director	DARD, Phu Tho Province		
21	Ms. Nhu Thi Ngoc Anh	Head of Sub-Department	Sub-Department of NAFIQAD, DARD, Phu Tho Province		
22	Ms. Nguyen Thi Hien	Deputy Head of Sub-Department			

No.	Name	Title	Organization
		JICA	
23	Mr. Naoki Kakioka	Senior Representative	JICA Vietnam Office
24	Mr. Satoshi Yamamoto	Lead Advisor for Agri-Business	JICA Vietnam Office
25	Ms. Nguyen Thi Thu Hang	Staff	JICA Vietnam Office
26	Mr. Yasuo Watanabe	Adviser	JICA Expert
27	Mr. Teruyoshi Kumashiro	Chief Adviser	JICA Project Office
28	Ms. Wakana Nishiyama	Project Coordinator	JICA Project Office
29	Ms. Nguyen Thi Hang	Project Advisor	JICA Project Office
30	Ms. Hoang Thi Phuong Linh	Staff	JICA Project Office
31	Mr. Mitsuru Nanakubo	Team Leader	JICA Project Consultant Team
32	Ms. Chiyo Mamiya	Co-Team Leader	JICA Project Consultant Team
33	Mr. Takuto Hashimoto	Project Coordinator	JICA Project Consultant Team
34	Ms. Vuong Thuc Tran	Staff	JICA Project Consultant Team
35	Mr. Nguyen Van Doang	Senior Cultivation Expert	JICA Project Consultant Team
36	Mr. Nguyen Viet Cuong	Marketing expert	JICA Project Consultant Team
37	Mrs. Tran Thi Mui	Staff	JICA Project Consultant Team
38	Ms. Le Thi Tuyet Lan		Simultaneous Interpreter

In summer was The TRIPE I

Annex III: Project Design Matrix (PDM)(Version 1)

Title of the Project: Project for Improvement of Reliability of Safe Crop Production in the Northern Region ("IRSaC" Project) Term of Cooperation: 5 years from dispatch of first long term expert

Project Site: The Northern Region of Vietnam: "2 Cities and 11 Provinces" (Hanoi City, Hai Phong City, Hung Yen Province, Hai Duong Province, Ha Nam Province, Thai Binh Province, Phu Tho Province, Vinh Phuc Province, Quang Ninh Province, Hoa Binh Province, Bac Ninh Province, Nam Dinh Province and Ninh Binh Province).

Narrative Summary Object	Objectively Verifiable Indicators	Means of Verifications	Important Assumptions
Overall Goal			
Agricultural products in the Northern Region of Viet Nam are improved in term of safety and reliability."	 Areas and productions of reliable safe crop production in the Northern Region of Viet Nam is increased. 	* MARD/DARD reports (focus on Basic GAP/ VietGAP/ GlobalGAP)	The current agricultural legal policy on safe crop production and
*Improvement of products in term of safety and reliability, thereby, it enables to promote cultivation of safe crops	2) Numbers of farmer groups, agriculture cooperatives and enterprises who acquired Basic GAP/ VietGAP/		food safety does not change.
paid much more attention and achieve the promotion of related industries.	GlobalGAP in the Northern Region of Viet Nam is increased. 3) Numbers of buyers/shops of safe crops in the Northern Region of Viet Nam is increased.		
Project Purpose			
	1) At least three kinds of supply chain models for safe crops are developed in	1) Safe crop supply chain	 Necessary budget for safe crop production
Safe crop productions (safety vegetable) in target sites in the Northern Region of Viet Nam are promoted."	the target sites.	2) Baseline/Endline survey	_
*Promotion of safe crop production, then, channel of the value chain is promoted.	sales of safe crop is increased to 50%		
	3) The area for reliable safe crop production in the target sites is increased to 180ha.	 baseline/Engline survey 	
Outputs	For Producers	1-1) PPMU monitoring report	
The capacity of monitoring and management on safe crop production for relevant organization	1-1) The number of target groups applying and utilizing Basic GAP/		 No severe natural disasters or economic
y/MÁRD, DARD in respective p ct, and commune) is improved."	VietGAP is increased to at least 16. 1-2) 320 number of producers in target	1-2) PPMU monitoring reports	crisis occur that have serious impact on food
	sites attend Basic GAP trainings. 1-3) 80% of producers in target sites	1-3) Baseline/Endline survey	production and prices. 2. The price and condition
	record on field diary properly		
	1-4) 100% of target groups in target sites	1-4) PPMU monitoring reports	fluctuated.
	conduct internal audit to evaluate group members' activity.		 Ine Violation of contract and bankruptcy of buyers is

Important Assumptions	not frequently.								* 25					
Medils of Verillications	1-5) PPMU monitoring reports	1-6) PPMU monitoring reports 1-7) PPMU monitoring reports	1-8) PPMU monitoring reports	1-9) PPMU monitoring reports	1-10) CPMU evaluation reports	1-11) Action plans	2-1) PPMU monitoring reports	2-2) PPMU monitoring reports	2-3) PPMU monitoring reports	2-4) PPMU monitoring reports	2-5) CPMU evaluation reports	2-6) Action plans	3-1) CPMU and PPMU monitoring report	3-2) CPMU and PPMU monitoring report 3-3) CPMU and PPMU monitoring report
Objectively Verifiable Indicators	For Government staff 1-5) 48 number of field officers are trained as trainer of Basic GAP.	1-6) 35 samples of soil and water analysis are conducted. 1-7) 60 samples of pesticide residue	inspection are conducted. 1-8) 70 times of internal audits are attended by field officers.		1-10) Evaluation report is prepared by CPMU before every JCC meeting.	1-11) Action plan is prepared by PPMU and CPMU.	2-1) 20 number of matching events are	conducted 2-2) 40 number of linkages between producers and buyers are made in	target sites. 2-3)The stakeholder coordination meetings for each target group which include and users.	rs of DARD are held at lyear.	PPMU every 3 months. 2-5) Evaluation report is prepared by	CPMU before every JCC meeting. 2-6) Action plans is prepared by PPMU and CPMU.	3-1) The awareness program for consumers, producers and buyers are conducted 15 times by CPMU	and PPMU. 3-2) 5 promotional materials for awareness activities are developed. 3-3) The number of participants in the awareness activities exceeds 500.
Narrative Summary							following GAP	proposed."					3) "Awareness of relevant organization/people, mainly producer and buyers (consumer and traders; such as wholesalers and retailers) on safe crop production and food safety is raised."	

Activities 1.1 To create unit of CPMU (Central Project Management Unit) within DCP/MARD in order to manage and implement of the Project effectively in central level 1.2 To create PPMU (Provincial Project Management Unit) within the respective province selected as "Pilot province(s)/city" and "Semi Pilot province(s)" in order to manage and implement of the Project effectively in local level * The PPMU is consisted with relevant sub-department(s) in DARD as well as collaboration with other departments/centers which is necessary to implement the Project effectively.	mean event a fundaminital constitute and	Inputs	
		and in	
	Management Unit) within DCP/MARD in order to	Vietnamese Side	1. The majority of the
	tively in central level	<pre><project staff=""></project></pre>	Project counterparts in
	ement Unit) within the respective province selected	 Counterpart and administrative 	charge of safe crop
	ovince(s)" in order to manage and implement of the	staffs	production in central
	din a citar dellas as llow as ABA ai (2)tas amparal		and pilot province(s) do
	lepariment(s) in DARD as well as collaboration with	<facilities bulldings=""> Suitable effice cases</facilities>	
	aly to implement the Floject effectively.	- Sultable Office space Will	0
	III the existing situation and problems for sale crop	for language equipment facilities	
1.4 To select the target drougs (=Agriculture production	Ir not province(s)	ioi sapailese expells	organization
Agriculture Droduction		Lucy acitorage ref	nmittee
Semi Dilot province(s)	s, and Lannel Gloups) in the Lilot province(s) and	represents operation and	t province
15 To collect relevant documents materials and data on safe crop	and data on safe crop production including GAP	- Counterpart Fund necessary for	K
		the implementation of the	counterpart budget is
1.6 To design crop production systems in order to ensure quality and safety	to ensure quality and safety		secured.
	"Crop production system" includes the activities, such as format of record keeping, method of		
record confirmation, scientific pesticide res	record confirmation, scientific pesticide residue testing, PGS (participatory Guarantee System,	Japanese Side	
	mmunication Technology), etc.	<dispatch experts="" japanese="" of=""></dispatch>	
'1.7 Based on the systems designed in the A	Based on the systems designed in the Activity 1.6 above, to introduce the system as pilot	Long-term Experts:	
	aboration between CPMU and PPMU	 Project Chief Advisor 	
1.8 Based on the Activities 1.7 above, to mod	Based on the Activities 1.7 above, to modify and improve the systems in order to make the	- Project Coordinator/ Training/	
		Public Relations	
1.9 Against PPINIO in the respective semi	Against PPIMU in the respective "Semi Pilot province(s)", to conduct workshop/seminars	Short-term experts: As required	
regarding to the system constructed in the	Activity 1.8 above by CPMU		
1.10 To Infloduce the system above even in the instruction by CDM1	To introduce the system above even in the Semi Pilot province(s) under the guidance and	< Equipment/Macninery/venicle>	Pre-conditions
1 11 In the Dilot province(s) and Semi Dilot m	Instruction by Crivic In the Dilat province(s) and Semi Dilat province(s) to evaluate the results of pilat activities	Other items are to be	
	Name (sol, to evaluate the feature of pilot activities plans (including activities and hidder) which enable	מות ווסווס שות ווס	1. The cooperation from
MARD/DARD to continue the Project activ	carried but, and men to rollingate activities even after the termination of the Project	o se casacio	
* For the above-mentioned Activity 1, the "Knowledge-sharing	e "Knowledge-sharing province(s)/city" are also	<training in="" japan="" td="" third<=""><td>trader, wholesaler,</td></training>	trader, wholesaler,
participating as appropriate, to share inform	participating as appropriate, to share information about the progress and results of activities in	countries>	or, etic.) of sa
the Pilot province(s) and Semi Pilot provinc	the Pilot province(s) and Semi Pilot province(s), even to share the experience each other.	- Training of Vietnamese staffs	crop production is secured.
2.1 To conduct survey on "Market (value	chain) analysis" (such as "Market Trends &		
Competitiveness", "Value Chain Map	Competitiveness", "Value Chain Mapping/Diagram", "Constraints & Opportunities",		
	overnance Structures & Public-private relations")		
2.2 In conjunction with the Activity 1.4, and also based on the results	In conjunction with the Activity 1.4, and also based on the results of Market analysis survey		
(product processing entities, distribution entities and sales entities)			
2.3 Together to provide the results of the Market analysis survey to the	et analysis survey to the producers in the respective		
GAP), making contract and planning collect	province, to conduct sales promotion activities on sale crops (in particular, vegetables follow GAP), making contract and planning collection and delivery activities based on the requests by		
processing and sales entity			

1	narrative Summary	Objectively Verifiable Indicators	Means of Verifications	Important Assumptions
*	"Promotion activities on safe crop production" is called as Matching activities like market/price	led as Matching activities like market/price		
N	information sharing and supports of business opportunities between producers and buyers 2.4 To examine the pilot activities of collection, pre processing and delivery in Pilot provinces.	ortunities between producers and buyers essing and delivery in Pilot provinces.		
N	3	rocessing and delivery above even in the ruction by CPMU		
N	2.6 In the Pilot province(s) and Semi Pilot province(s), to evaluate the results of pilot activities	to evaluate the results of pilot activities		
	carried out, and trien to formulate action plans (including activities and budget) which enable MARD/DARD to continue the Project activities even after the termination of the Project	adding activities and budget) which enable after the termination of the Project		
Ar.	For the above-mentioned Activity 2, the "Knowledge-sharing province(s)/city" are also	vledge-sharing province(s)/city" are also		
	participating as appropriate, to share information about the progress and results of activities in the Pilot province(s) and Semi Pilot province(s), even to share the experience each other.	out the progress and results of activities in n to share the experience each other.		
-				
m	3.1 To review and analyze past experiences of promotion activities on safe crop production and food safety, and draw good practices and lessons learned.	tion activities on safe crop production and arned.		
6	3.2 To implement raising awareness activities on safe crop production and food safety, focusing on	rop production and food safety, focusing on		
4	traceability and trust building toward customers (buyers/consumers) through various tools	ers/consumers) through various tools		
3	Awareness activities – such as awareness raising carribaign event, unization of social media 3.3 To implement specific raising awareness activities on safe crop production and food safety	on safe crop production and food safety		
	toward the target groups and organization related to the Activity 1 and	-		
3	3.4 To grasp the consumers' voice/opinion and support communication	rt communication activities of Vietnamese		

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Ministry of Agriculture and Rural Development Socialist Republic of Viet Nam

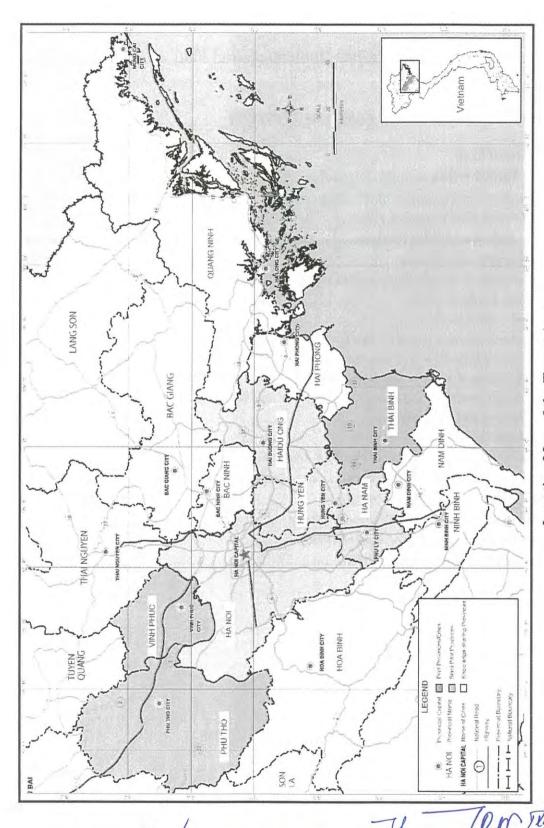
Project for Improvement of Reliability of Safe Crop Production in the Northern Region

Pilot Project Implementation Plan

April 2017

Japan International Cooperation Agency (JICA)

Nippon Koei Co., Ltd. Kaihatsu Management Consulting, Inc.



Project for improvement of reliability of safe crop production in the northern region in Vietnam Location Map of the Target Area

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Socialist Republic of Viet Nam Project for Improvement of Reliability of Safe Crop Production in the Northern Region

Pilot Project Implementation Plan

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CHAPTER 1 INTRODUCTION

1.1 Objective of implementation of pilot Projects

The objective of implementation of pilot projects is to ensure the good responsiveness and application of basic GAP, cultivation techniques and supply chain development in the context of Northern Vietnam. Application of the basic GAP with introduction of cultivation techniques is expected as an effective way to reduce the microbiological and chemical contamination of vegetables requiring government regulations and to supply consumers with safe and quality products according to market requirement. Each pilot project will cover not only production but also whole value chain from producers to consumers.

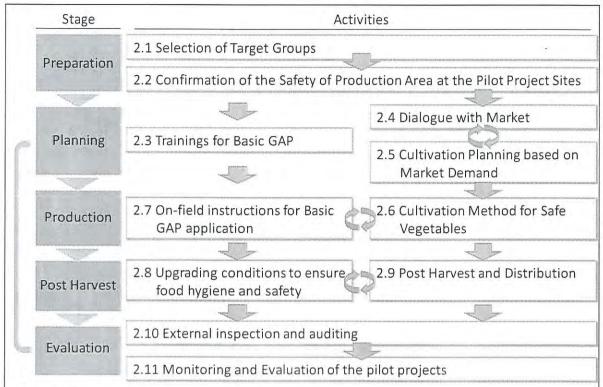
To exercise safe crop production and distribution in accordance with Good Agricultural Practices (basic GAP/ VietGAP), small-scale pilot projects in pilot provinces will be implemented with selected target producers' groups. The detailed objectives are as below:

- Introduce, monitor and evaluate application and efficiency of basic GAP and/or VietGAP for respect of procedures;
- · Support improved agricultural practices and technology for safe fresh vegetable products;
- Enable supply chains for safe vegetables (basic GAP, certified VietGAP) by implementing and monitoring Good harvesting and post harvest handling practices;
- Evaluate and monitor the quality and safety of targeted products in different steps of production and distribution channels;
- Implement the quality control system by end products sampling based on National and international standards:
- Capacity building of individuals, group and relevant government organizations to acquire different skills in development, experimentation, follow-up and support of GAPs; and
- · Assure economic return to producers.

1.2 Pilot Project Implementation Flow

The implementation flow of the pilot project is shown in the table below.

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Source: JICA Project team

Figure 1.1 Flow Chart of Pilot Project Implementation

The pilot project will be implemented stage-wise approach according to the cultivation season, starting from preparation, planning, production, post harvesting and to evaluation. One activity closely links with others, then the evaluation of a season will be reflected to the planning of next season. Chapter 2 explains the detail of the pilot project activities.

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CHAPTER 2 ACTIVIES OF PILOT PROJECT

2.1 Selection of Target Groups

Target groups in this pilot project shall be identified according to the following steps;

(1) Confirmation of Selection Criteria for target groups

The selection criteria of target groups are described as the Record of Discussions agreed upon between MARD and JICA on 29th February, 2016.

Especially, JICA Project team emphasizes that the target groups should hold strong willingness and eagerness considering as a model with sustainability.

(2) Nomination of candidate target groups

PPMU nominates the target groups as candidates for pilot project. (3) Implementation of baseline survey to the candidate target groups

In order to assess the actual conditions of candidate target groups, baseline survey is implemented for the candidate target groups. Baseline survey consists of two types of interviews; group interview for candidate target groups and individual interview with the farmers of each group. For effective and efficient data collection, both interviews should be conducted with questionnaire formats. Sample sizes for group interview and individual interview are as below.

1) Group interview : 1 interview for each group (with 2–5 respective farmers)

2) Individual interview : 20 individuals for each group

(4) Confirmation of target groups

Based on the results of baseline survey, candidate target groups are assessed according to the selection criteria. PPMU and CPMU together with JICA Project team discuss and confirm the selection of target groups of each province.

Current safe vegetable production condition of selected target groups is summarized with the following items.

- · Total safe vegetable production land area
- · Number of farmers participating in pilot project/ in dividing into village, Hamlet
- · Situation of linkage between farmers and cooperative for production and distribution.
- · Group Organization structure

2.2 Confirmation of the safety of production area at the pilot project sites

In the below cases, JICA Project team shall consider to carry out the soil and water tests to confirm the safety of the pilot project sites:

- The certificate of safe production area has been already expired or to be expired during the project period.
- The production area is not certified yet as the safe production area.

- The production area is extended as the new pilot project site.

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- The potential risks of unsafety of production area due to changing of irrigation water sources and pollution of soil are evaluated.
- An inspection report by DARD and/or any relevant institution shows a heavy metal residue from the sample products produced in the pilot project site.

Soil and water tests shall be exercised according to the following procedures.

- PPMU appoints a collector of soil and water samples. It is recommended the collector shall be nominated from the authorized unit.
- The inspector shall collect samples and sends them to a qualified laboratory for testing of heavy metals (As, Cu, Pb, Cd, Zn) on soil and heavy metals (Hg, As, Cd, Pb,) and E. coli on irrigation water.
- The inspector shall prepare a sampling equipment correctly and follow the procedure according to the guidance from MARD to ensure a sampling error is minimized.
- DARD shall issue the certificate when the safety of the sampling area is confirmed.
- CPMU is responsible for checking and monitoring of the above procedures.

2.3 Trainings for Basic GAP

2.3.1 TOT Training

TOT training on basic GAP shall be organized and conducted by JICA Project team with assistance of CPMU. The expected participants are the technical staff of PPMU members (eg. Provincial and District extension officers) and the technical inspectors of the target groups.

(1) Objective

- To provide PPMU technical staffs and pilot project managers necessary knowledge of Basic GAP, skills, tools and expertise in order for them to be capable of planning and delivering of TOF training.

(2) Target participants

The expected participants are the technical staff of PPMU members (e.g. Provincial and District extension officers) and the group leader and technical inspectors (internal auditor) of the target groups. Expected number of participants is 20 persons/class in each province.

(3) Training schedules

Trainings are expected to be conducted in April - May 2017 tentatively. One training course consists of 2days program, including lecture of Basic GAP knowledge as well as field visit.

In addition, a follow-up course will be held in June 2018.

(4) Trainers

Vietnamese GAP, technical experts with assistance of JICA Project Team

2.3.2 TOF Training

TOF training on basic GAP shall be organized and conducted by PPMU members participated in TOT training as the trainers with assistance of JICA Project team. PPMU will apply basic GAP as the technical procedures for the project and will utilize the "basic GAP manual" developed by the previous JICA project.

(1) Objective

- To enable participants to be aware of necessity of corrective action to keep safety and reliability of vegetable production according to the basic GAP.
- To enable participants to understand and implement the procedures of production and post-harvesting according to the requirement of basic GAP in order to produce vegetables with satisfaction of hygienic and safe requirements.

(2) Target participants

The expected participants are the group leader, technical inspector(s) and farmers participating in production, harvest and handling of vegetables. Expected number of participants are 20 - 25 persons/class.

(3) Training schedules

Trainings are expected to be conducted in April - May 2017 tentatively. One training course consists of 2 half-day program.

In addition, a follow-up course will be held in June 2018.

(4) Trainers

PPMU technical staffs participated in TOT training as the trainer with assistance of JICA Project
 Team

TOF training modules will be designed by JICA Project team and CPMU. The contents are including; maintenance of checklist indicated in basic GAP manual, internal audit procedures, quality assurance, nomination of quality control staff, etc. This course will include discussion among participants for better implementation of Basic GAP.

2.3.3 Post Harvest Training

Training on good post harvest handling practice/ hygiene condition on packaging and transportation for farmers, workers who work at vegetable packing place, selling points. The training contents focus on some crucial steps of post harvest such as water used for washing vegetables and hygiene assurance of working conditions in packing house.

(1) Objective

- To enable participants (the persons involved in post harvest handling activities) to understand and implement post harvest handling properly to ensure food safety.

(2) Target participants

The expected participants are the owner of handling house and the workers who are directly involved in vegetable handling. Expected number of participants are 20 – 25 persons/class

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(3) Training schedules:

Training is expected to be conducted in September 2017 tentatively. One training course is a half-day in each province.

In addition, a follow-up course will be held in September 2018.

(4) Trainers

- Technical experts with assistance of JICA Project Team

The contents of the training will be designed by JICA Project team with support of CPMU and other outsourced institutions.

2.4 Dialogue with Market

2.4.1 Developing marketing tools

In order to make the target producer groups prepare for marketing their products, JICA project team will assist in preparing the profiles of producer groups and those of potential buyers. By developing profiles for themselves and buyers, the producer groups will understand themselves better and will be able to develop a strategy to market their products. The producer profiles will be used to present the overview and strengths of their groups, key information for marketing to the potential buyers.

Table 2.4.1 Information contained in the producer profile

Category	Information contained
General information	Name of unit, address, leader of unit, contact information, website, established year, number of board members, number of member farmers, form of management
Production	Total vegetable cultivation land, safe vegetable cultivation land, estimated annual vegetable production, applied protocol, kinds of vegetable produced, production schedule of major vegetables, status of vegetable production and consumption
Collection and consumption of the products	The conditions of collection, preprocessing, packaging and delivery. Major market and buyers
Quality monitoring	The method of quality monitoring
Future vision of the unit	Future plan on marketing

The profile will be updated by the producer groups in the TOF training on marketing action plan development described in (3) and will be used to discuss with buyers in the producer-buyer dialogue described in (4). The profile is expected to be continuously updated by the producer groups afterwards.

In addition, the profiles of potential buyers are developed based on the outcomes of the market survey. PPMU with the help of JICA project team will contact potential buyers identified through the market survey to confirm their interest and collect mode detailed information which will be incorporated in the profiles.

The profiles are presented to the target producer groups to narrow down the target buyers. The information contained in the profile is shown below.

Table 2.4.2 Information contained in the buyer's profile

Category	Information contained

General information	Name of unit, type of business, company logo, address, contact information, website,
Organization	Established year, number of employees (of which number of employees who deal with vegetable business), number of selling point
Vegetable demand	Vegetable to purchase in each season, three vegetables buying most in each season, three vegetables difficult to find in each season, required standard such as VietGAP, volume of vegetable purchase, frequency of purchase, delivery point
Orientation of linkage in the collection and distribution	Policy of unit to deal with suppliers, requirements for collection and distribution such as packaging

2.4.2 Training of trainer (TOT) on marketing

TOT training on marketing will be conducted in order for the officials of DARD in the Pilot and Semi-Pilot Provinces and core farmers of the producer groups in the Pilot Provinces to acquire capacity of conducting trainings to satisfy the following objectives:

- The producer groups will understand the market needs, and formulate the plan to find the buyers in accordance with the strengths and capacity of the group and develop the capacity to negotiate with buyers.
- The producer groups will understand the system required for cultivation and delivery of the vegetables which satisfy the buyer's needs in a collective way.

The expected participants are listed below.

Table 2.4.3 Participants for TOT training

Province	Province Organization Number of participants		Selection criteria
Pilot provinces	DARD	6 (2/province)	 One participant is from the section in charge of marketing and he/she is in a position to conduct training of marketing to other officials in DARD, districts and communes. One participant is from extension center and he/she has high possibility to support target producer groups in the pilot projects
	Producer group	12 (2/group)	 Two producer groups which have high possibility of being selected as target groups for the pilot project should be selected. Two board members of the producer groups should be selected. One is in charge of overall management of the cooperative and the other is in charge of collection and delivery for collective sales.
Others		12 (2/province)	 Three participants from each DARD (Hanoi, Thai Binh, Vinh Phuc and Phu Tho) who are in a position to conduct training of marketing to other officials in DARD, districts and communes, and core farmers in the City/Provinces.
To	otal	30	

Source: JICA Project Team

The contents of TOT program is shown below. The training requires one and half days. The first part focuses on market conditions of vegetable in general and safe vegetables in particular. The second part will focus on developing internal control system of the target group which is required for collective sales.

Table 2.4.4 Contents of TOT program

Day Program

First AM Mobilization

Limit Rivers A River

Day		Program			
day		Visit supermarkets in Hanoi			
	PM	Opening remark			
		Market potential of safe vegetable			
		Present conditions of vegetable distribution system (Hanoi, Pilot provinces, export market)			
		Relation between producers and buyers			
Second AM		Cooperative management and production system development for collective sales			
day		Overview and key elements of contract farming			
	PM	Establishment of internal control system required for collective sales			
Case study by guest speakers		Case study by guest speakers			

Source: JICA Project Team

After completing TOT training, two types of training of farmers (TOF) are expected to be carried out by the participants of TOT. One is TOF for developing marketing strategy before producer and buyer dialogue and the other is TOF for developing internal control system for collective sales after producer and buyer dialogue. The details of these trainings are explained (3) and 2.10 separately.

2.4.3 Develop marketing action plan for each target group

In order to make target group farmers ready for marketing activities, TOF training on marketing strategy development will be held. PPMU will organize and implement the training with the help of JICA project team.

Table 2.4.5 Outlines of TOF on marketing action plan development

Date	One day in March 2017				
Place	Each pilot province (Hai Duong, Ha Nam, Hung Yen). PPMU will organize the venue.				
Trainer	DARD officials who participate in TOT marketing program and JICA experts				
Participants	Key producers in target producer groups who have responsibility with marketing and colle sales including those who participate in TOT marketing training. Around 5 people from group				
Program	9:00-9:10 Opening remarks				
	9:10-10:00 Current market conditions for safe vegetables and result of market survey				
	10:00-10:10 Break				
	10:10-11:30 Group work 1: SWOT analysis and update of producer's profile				
	11:30-13:00 Lunch				
	13:00-13:30 Contract and negotiation skills				
	13:30-14:30 Group work 2: Identify target buyers and formulate action plans				
	14:30-14:50 Presentation of outcomes by each group				
	14:50-15:00 Summary of activities				

Source: JICA Project Team

Producer profiles and buyer's profiles developed by the Project team will be utilized in the training. The former will be updated based on the SWOT analysis made by each target group. The latter will be distributed in the second group work and each group will identify target buyers utilized the profiles. Expected outputs are SWOT analysis sheet and action plan sheet.

2.4.4 Matching with buyers

There are two types of matching in the pilot. The one is a matching between a specific producer and buyers. The other one is a matching event where multiple producers and buyers meet. PPMU is

expected to arrange both occasions. The former one is arranged upon request from either the producer group or the buyer who is interested in the target group. The latter is organized at least one in season by inviting all producer groups and potential buyers

1) Matching for the specific producer group

When PPMU receives a request for matching, PPMU will arrange a meeting between the producer group and the buyer. PPMU facilitate discussion and support the producer group to fairly negotiate with the buyer. PPMU makes the matching record after completing the session.

PPMU cannot prevent the producer groups from contacting potential buyers directly. PPMU should encourage them to do so and provide necessary support. PPMU will collect information of buyers the producer group has contacted and status of negotiation. PPMU is expected to report these conditions the quarterly monitoring report.

2) Matching events

Each PPMU with the support from JICA project team will arrange matching events at least once in a season. For the buyers from Hanoi, PPMU in Hanoi will arrange a matching event in Hanoi for the target producer groups in pilot provinces. The outlines of event is shown below.

Table 2.4.6 Outlines of matching event

Date	One day in April 2017		
Place	Hanoi		
Organizer	Hanoi DARD and Hanoi Trade Promotion Center		
Participants	DARD in pilot provinces, representatives of producer groups		
Program	- Introduction of provinces - Matching sessions		

Source: JICA Project Team

After completing the event, PPMU will develop a matching event report which shall be submitted with the quarterly monitoring report to CPMU. PPMU will follow-up the results of matching.

2.4.5 Assisting in making contract

PPMU with the help of JICA project team will assist in making contracts between producers and buyers. The Project will propose standard terms for contract. PPMU will be an observer for making contracts to ensure that the contract is not against the interest of producer group and the conditions are feasible. PPMU makes the agreement record after completing the session.

After making the contract, the producer group will develop cultivation plan explained in Section 2.5. Based on the developed cultivation plan, PPMU will assist the producer group in making agreement with members for volume, price and payment.

2.5 Cultivation Planning based on Market Demand

Overall activities on market demand based cultivation through planning, production and evaluation is described in the table below.

Table 2.5.1 Over All Activities for Cultivation Based on the Market Demand

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Step	Time line	Activities				
Planning	2.5.1 Formation of safety crop group	 To formurate safety crop groups To confirm existing production and crops To confirm objective of the group through market prospection 				
	2.5.2 Selection of Crops	- To analyze existing production (yield, quality, crop type, harvesting period)				
	2.5.3 Selection of market	- To prepare candidate market lists - To analyze each candidate market and prioritize the market				
	2.5.4 Preparation of production and shipping planning	 Production: Variety, cultivation period, quantity, quality Procesing: Washing, selection, packing (size, material: box, bag, etc.), Pre-cooling Shipping: Chilled, standard, Freezing, quake-proof, shading, shelf track, etc. 				
	2.5.5 Preparation of cultivation calendar	 To prepare best cultivation plan through soil check, composting, fertilizer, prevention of desease and insect, irrigation, seed sowing, seedling production, agri-facilities and materials To prepare overall crop rotation To control disease and insect through listing the damages and countermeasures by chemical, material and facility To introduce agri-machines / tools for seed sowing, plowing, mulching, inter tilling, etc 				
	2.5.6 Purchase of materiales	 To caluculate demand from farmers for each materiales To take price quotation To purchase and distribute 				
Production	2.6.1 Instalation of pilot farm	- To select person in charge of cultivation - To instal pilot farm for each target group				
	2.6.2 Production of safety crops	 To prepare farmland including composting, fertilizer To produce safety crops with improving cultivation method (seed sowing, seedling production, transplanting, disease and insect control, irrigation and drainage, etc) To utilize agri-materials (tunnel, mulching, etc.) 				
Evaluation	2.6.3 Evaluation	- To evaluate result of this season - To prepare cultivation plan in next season				

Source: JICA Project Team

JICA project team together with CPMU and PPMU shall apply necessary activities according to the condition of each target group and target crops.

2.5.1 Formation of safe vegetable production group

The target group shall setup a safe vegetable production group with assistance of JICA project team and PPMU. Number of participant farmer for the safe vegetable production shall be maximum around 20 households, to realize effective group management. If more households want to participate, more than two safe vegetable production groups shall be prepared. Selected farmers shall sign on the regulations of the group. Selection criteria is prepared by CUPM and JICA project tem as follows:

Table 2.5.2 Selection Criteria for Target Farmer

Item	Criteria		
Vegetable production	- Involved in safe vegetable production		
Knowledge and techniques	- Hold accumulated knowledge/ techniques on Basic GAP and/or any other safe crop production		
Record keeping	- Capable of writing - Confident to maintain records regularly according to GAP		

Willingness and eagerness	 Hold willingness and eagerness to participate in the pilot project for safe crop production Willingness to obtain new technologies and plan for production and sale
Reliability and honest	- Keep promise with honest
Constructive behavior	- Comment constructively without criticism

Source: JICA Project Team

After the confirmation of members of safe vegetable production group, the basic agreement shall be signed by them. The basic agreement aims to protect the safety of agricultural products and to pursue a production method without environmental burden, and it is expected both of the cooperative and the member sign this agreement.

2.5.2 Selection of vegetable and variety

To select one target vegetable for each group per season, the target group shall analyze actual situation of production such as cultivation area, production volume, quality and harvesting period. If market demand is different from actual situation of production, the target group shall select vegetable and production period by using information of "Cropping pattern of some main vegetables".

,	/egetables	January 1 2 3 4	February 1 2 3 4	March 1 2 3 4	April 1 2 3 4	May 1 2 3 4	June 1 2 3 4	July 1 2 3 4	August	September	October	November	December
	Early season												
Cabbage	Mid season												
	Late season										7		
	Early season								1 0 - 1				
kohlrabi	Mid season										La la serie		110
	Late season		Y. L										
	Early season												
broccoli	Mid season	3.5											
	Late season												100119
	Early season												
tomato	Mid season											ũ	
	Late season												
	Early season												
gailum	Mid season										- King		
	Late season		J										
Green mustard	Main crop				LESSOF!								
Bok Choy	Main crop				P. (1985)			REFIS)					
	Early season												
lettuce	Mid season											12-14-51	
	Late season												
	Spring crop			189	1732								
cucumber	Summer crop												
	Winter crop												130
	Spring- Summer crop				1								
Water melon	Summer crop												
	Winter crop				1								
string bean	Spring - Summer crop				11								
string bean	Summer - Autumn crop								4F(3)				
	Early season												
Carrot	Mid season			1									
	Late season												
	<u>Note:</u>	Pla Ha	wing time inting time rvesting time owing season	(Sowing plan	ting and harve	esting) of shor	t growing dura	tion vegetables					

Figure 2.5.1 Cropping pattern of main vegetables in pilot provinces

The target group with assistance of JICA project team shall select a variety as a target crop nominated from current varieties of vegetables growing in pilot project provinces and new varieties introduced by JICA project team and other concerned institutions.

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2.5.3 Selection of Market

As mentiond in 2.4, the safe vegetable production group shall select the target market by negotioation with buyers on the candidate market list.

2.5.4 Preparation of production and shipping planning

The safe vegetable production group shall prepare "Production Plan" with assistance of JICA project team. The purpose of production planning is to estimate production volume, processing and shipment time of individual farmer level and group revel. According to this information, person in charge of the group for sale shall coordinate with buyer and transporter to realize joint sell with assistance of JICA project team.

2.5.5 Preparation of cultivation calendar

JICA Project team and PPMU will prepare cultivation calendar with assistance of external institutions, such as Fruit and Vegetable Research Institute. The purpose of the cultivation calendar is to cultivate vegetable based on the demand of market such as Volume, Quality, Shipment time and Variety. The cultivation calendar shall include selected appropriate cultivation methods for each vegetable.

The cultivation calendar shall include two types of techniques: 1) Technique directly affect to safety. This technique shall be explained to all groups. 2) Technique indirectly affect to safety. This technique shall be explained according to necessarily of target groups/vegetables.

Affect to safety Technique Directly affect: Agri-chemical use: Name, amount, consentration, frequency, last shall be explained to all groups application before harvesting - Fertilizer use: Name, amount, frequency, moment Indirectly affect: - Farm selection: Rotation, condition of location - Soil preparation: Compost, tillage, ridge shall be explained according to - Cultivation density: Sowing, transplanting, thining necessarily - Growing management: Irrigation, pile soil, attract of stem, thining of frout, use of cultivation materials - Harvesting: Moment, condition, selection

Table 2.5.3 List of Cultivation Techniques

Source: JICA Project Team

2.5.6 Purchase of materials

The safe vegetable production group shall select one farmer as a person in charge to purchase materials. The person shall calculate amount of production materials by using format "Amount of Materials to Purchase" with assistance of JICA project team. According to this information, the person shall take quotation about material cost and transportation cost.

In the first season, only one target group shall conduct join purchase for one material as trial activity. From 2nd season, several target groups shall conduct joint purchase for several materials which target farmers apply high volume.

2.6 Cultivation Method for Safe Vegetables

2.6.1 Installation of pilot farm

Each target group shall select one person in charge of cultivation, and the person shall install one pilot farm to demonstrate cultivation method for target farmers. The basic size of the pilot farm shall be 360m^2 (1 sao) and the size will be confirmed through the discussion with target group and PPMU. The owner of the field shall cultivate target vegetable by following technical assistance from JICA project team.

On training in the pilot farm, all target farmers shall visit the farm to practice cultivation method, and shall replicate the same cultivation method on their own farm.

Target group shall coordinate with target farmers to consentrate production farms near by the pilot farm, to simplify production management such as control of agrichemical drift, evaluation of growth condition and shpping.

All target farmer shall not receive any payment from project for farm and labour, however, shall receive one part of cultivation material to minimisize risk to change cultivation method.

2.6.2 Production of safety crops

The contents of on farm training will be followed cultivation method described in cultivation calendar. List of cultivation techniques are descrived in 2.5, JICA project team—shall select key techniques for each target group for on farm training. Expected key techniques to improve actual problems are described in the table below.

Table 2.6.1 Actual Problems and Expected Key Techniques

Actual Problem	Key techniques	Expected Key Techniques			
Yield of vegetable is low due to condition of farmland is not appropriate for vegetable production	- Improvement of farmland condition	 Application of composting to improve physical condition of soil Application of appropriate amount of fertilizer to adjust containing of nutritions Improvement of plowing and ridging to improve drainage Econmic evaluation (cost and benefit analysis) Application of apropriate agrichemial to control insect Improvement of seed sowing, seedling production, transplanting to reduce disease Economic evaluation (cost and benefit analysis) Application of mitigation measures of insect and disease damage, such as keeping water in field for 7-10 days after harvest. 			
Quality of vegetable is low due to damage of insect and disease	- Improvement of insect and disease control				
Quality of vegetable is low due to lack of usage of materials	- Installation of agri-materials	 Usage of multing, tunnel and/or greenhouse to equalze growth, to enhance growth, to control insect, to reduce desease Economic evaluation (cost and benefit analysis) Control of usage of fertilizer and pesticide approved by the Government Encouraging farmers to use bio-insecticide 			

Source: JICA Project Team

If unexpected desease, insect or other problems appear, JICA project team shall find solution with

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coordination with another institutions such as Fruit and Vegetable Research Institute and target group.

The person in charge of cultivation shall supervise cultivation of other target farmers with assistance of JICA project team.

2.6.3 Evaluation

At the end of the season, target group shall organize meeting with target farmes to evaluate results of production and to discuss solution. JICA project team shall assist the group to prepare production plan for next season according to the results of the meeting.

At the end of the season, JICA project team shall share results of activities, lessons and learns to DARD and relevant organizations.

2.7 On-field instructions applying Basic GAP

2.7.1 Establishment of Internal Quality Management System

JICA Project team and PPMU assist in establishment of Internal Quality Management System applying Basic GAP.

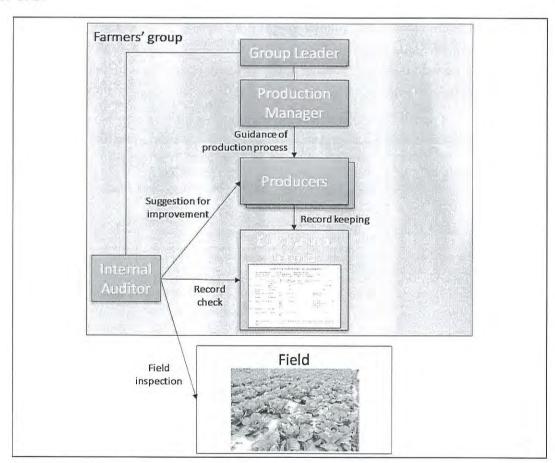


Figure 2.7.1 Internal Quality Management System

Internal Quality Management System is the internal structure to secure the safety of agriculture products in accordance with Basic GAP.



(1) Members of Internal Quality Management System

Internal Quality Management System will be maintained by the following three members, who will be appointed with guidance of PPMU and JICA Project team.

- 1) Group leader/ Head of Internal quality management
- 2) Production Manager(s)
- 3) Internal Auditor(s)

(2) Roles and Responsibility of each member

- 1) Group leader/ Head of Internal quality management
 - To be responsible generally for production and trading of products and internal auditing
 - To organize, operate and maintain and develop the quality management system following Basic GAP
 - To assign staff to record information based on the logbook forms which are applied for cooperative management
 - To represent the cooperative to sign contracts with buyers and basic agreement with the cooperative members
 - To represent the cooperative receiving supports on materials, finance, technologies from outside organizations and individuals
 - To lead and supervise production manager, internal auditor to implement tasks assigned.
 - To issue the decision of penalty to member who violates and/or does not comply with quality control in accordance with Basic GAP.
 - To solve complaint, denouncement that may occur during production, collection and delivery of products.

2) Production Manager(s)

- To be supervised and directed directly by Group leader
- To organize and provide technical assistances to farmers.
- To organize group meeting with members when required.
- To directly supervise, remind members to comply with Basic GAP requirements.
- To recommend technical improvements in cultivation and quality system suitable with Basic GAP requirements.
- To monitor and instruct farmers/ members to correct non-conformity points as required in production activities.
- To participate in internal audit.

3) Internal Auditor(s)

- To be supervised and directed by Group leader.
- To develop audit plan and report to Group leader.
- To supervise all activities in the group throughout purchase of agricultural inputs, cultivation, harvesting, collection and delivery in accordance with Basic GAP.
- To supervise the corrective actions taken by farmers/ members.
- To audit the appropriateness of Basic GAP throughout the above process with check list.

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- To prepare an audit report and report the result to the Group leader and production manager.
- To make recommendations for improvement.

2.7.2 On field instruction for farmers applying basic GAP

The internal auditor(s) together with production manager(s) shall instruct farmers how to maintain records and how to practice farming with application of basic GAP focusing on some crucial steps on cultivation, harvest and post harvest based on the checklist (26 items). Cultivation method for safe vegetables described in Section 2.6 will be utilized in order to meet the requirement of basic GAP.

The production manager(s) will assist farmers for self-check and evaluation of their own practices and guide on the implementation of correction actions.

PPMU's technical inspector(s) visit each target group once a week to check the record keeping and field practice in accordance with Basic GAP, and provide technical advice to internal auditor and production manager in case of any detection or error on practice.

2.7.3 Internal monitoring of farmers' activities

Internal monitoring meeting should be regularly executed once a month in cultivation season with participation of production manager, internal auditor, PPMU technical inspector and farmers to share experiences and give guidance to farmers application of basic GAP.

2.7.4 Internal audit

Internal audit shall be conducted 2 times/ year using basic GAP checklist (26 items). The internal audit checklist with methods for audit and evaluation will be prepared by JICA project team.

2.8 Upgrading Conditions to Ensure Food Hygiene and Safety

With consideration of market requirement, JICA Project team and PPMU conduct a technical assessment to upgrade the conditions to ensure food hygiene and safety in production area, pre-processing place and outlets. JICA Project team and PPMU will develop an upgrading plan and draft a list of necessary equipment and materials with budget estimate. JICA Project team provides financial support to the target groups for installation of equipment and facilities.

JICA Project team and PPMU supervise the installation and operation in line with the upgrading plan. PPMU shall evaluate the usage of the installed facilities and the improvement of the condition compared with the previous conditions in terms of food hygiene and safety.

2.9 Post Harvest and Distribution

2.9.1 Planning of collection and delivery system

Each target group will formulate a plan for collection and delivery system which satisfy the requirements of buyers. In order to enable the target groups formulate a plan, the second TOF training will be conducted. PPMU will organize and implement the training with the help of JICA project team. The outlines of TOF is shown below.

Table 2.9.1 Outlines of TOF on collection and delivery activity planning

Date	One day in June 2017				
Place	Each pilot province (Hai Duong, Ha Nam, Hung Yen). PPMU will organize the venue.				
Trainer	DARD officials who participate in TOT marketing program and JICA experts				
Participants	Key producers in target producer groups who have responsibility with marketing and collect sales including those who participate in TOT marketing training. Around 5 people from eagroup. Buyers are invited for discussion.				
Program	9:00-9:10 Opening remarks 9:10-10:00 Establish internal control system for joint sales 10:00-10:10 Break 10:10-11:30 Group work: Analyzing current conditions and planning collection and delivery system 11:30-13:00 Lunch 13:00-14:00 Presentation and discussion for improvement 14:00-14:30 Revising action plans 14:30-15:00 Summary of activities				

Source: JICA Project Team

In the training, each target group will develop an action plan.

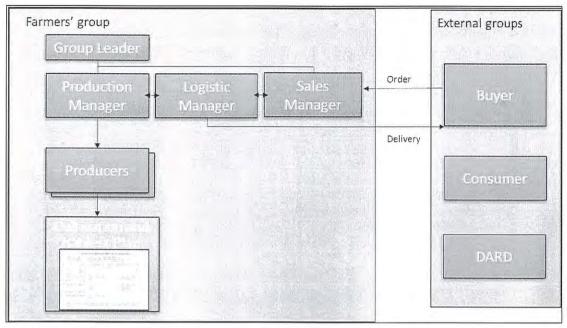
After the training, PPMU with the help of JICA project team will discuss with each producer group at their site more details about collection and delivery activities and finalized the collection and delivery activity plan. In this process, necessary packaging arrangements including label and logo will be discussed and included in the plan.

2.9.2 Implementation of pilot activity

PPMU with the help of JICA project team assist in implementation of collection and delivery pilot activities of the producer group. PPMU will visit each target group every week to monitor the progress, provide advice and discuss any issues to be resolved.

Each target group assign a logistic manager and a sales manager. The sales manager is responsible for marketing, all the communication with buyers including claims and settling payment with buyers. The logistic manager is responsible all the internal preparation for collection and delivery including adjustment of harvest, checking products if they satisfy the buyer's criteria, preprocessing, arranging logistic and ensuring no mixing happening in the consignment.

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Source: JICA Project Team

Figure 2.9.1 Implementation structure for collection and delivery activities

PPMU will organize stakeholder meeting at least once a season. The aim of holding stakeholder meetings is to share information, solve issues, increase mutual understanding and build trust among stakeholders. The outlines of meetings are shown below.

Table 2.9.2 Outlines of stakeholder meetings

Members	a member responsible for collection and delivery, a member responsible for production, a representative of buyer, an official from district DARD.		
Frequency	At the beginning of season, before harvesting		
Agendas	Requirements for sales, conditions of production, any other issues related to the contract		

Source: JICA Project Team

The target group is expected to record collecting products and payment using the format such as below. PPMU will check the book if the crops are collected and delivered by following the pre-agreed standard and provide advice to producers on production, collection and delivery if necessary. PPMU will record the collected amount of each products of target group and report it in the quarterly monitoring report.

Table 2.9.3 Recording book for collecting products and payment

Nam	e of produc	et	Seed	rice	(va	riety: .	lasmine	:)				
Coll	ecting date		10 De	ecen	iber	2014	Date o	of payme	ent	19 Dece	mber 2014	
	Nome of		Coll		ng ar kg)	nount		In cash	(1,000	VND)		Total
	Name of member		A		В		1	A	В			amount for
	who				-		1	2	3	Total amount	Advanced	payment
#	deliver	Member					F	rice un	it	for	payment	(1.000
1.0	product	code	1	2	3	Total	38.64	36.56	32.01	marketing (1,000 VND)	(1.000 VND)	VND)
1	Linh	08	08	50			50	450			450	200
2	Dung	04	04	50	20	20	90	450	140	100	690	290
3	V. Thành	01	01	20	10		30	180	70		250	200
4	Xuân	03	03	30	20		50	270	140		410	200
5	Son	02	02	40			40	360			360	160
6	X. Thành	05	05	10		50	60	90		250	340	200
7												
100				Ini								
	Total		200	50	70	320						

Source: Training manual "Introducing method of joint marketing business in agricultural cooperatives (JICA)

2.10 External Inspection and Auditing

2.10.1 Inspection and assessment of Basic GAP implementation.

PPMU with assistance of JICA Project team shall assess the implementation of the pilot projects in line with Basic GAP by using the checklist at the end of cultivation season. A respective staff who are trained on monitoring and inspection will be appointed by PPMU to conduct the assessment. An audit report shall be prepared and submitted to PPMU and JICA Project team after the audit.

2.10.2 Pesticide residue check

Pesticide residue check is essential to monitor safety of the products at the time of harvesting and/or delivery to the buyers. JICA Project team propose dual approaches of pesticide residue check; 1) quick sampling test and 2) laboratory test, in consideration of accuracy of the test as well as cost efficiency.

(1) Quick Sampling Test

Quick sampling test will be conducted by PPMU inspector (representatively a staff from sub NAFIQAD) by using a quick tool kit in order to measure the pesticide residue of sample products on farm. The results of the quick tests will be shared among target groups, PPMU and JICA Project team for auditing purpose only and will not be disclosed to the public.

(2) Laboratory Test

Laboratory test will be arranged by PPMU inspector together with JICA Project team. PPMU inspector collects samples and send them to a qualified laboratory for testing heavy metals, pesticides residues and microbiological respectively if necessary. The results of laboratory test will be disclosed to the public and utilized for marketing purpose as the evidence of safety of products.

JICA Project team and CPMU will design a sampling and testing plan for pilot project.

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2.11 Monitoring and Evaluation of the Pilot Projects

PPMU with support of JICA Project team will monitor the pilot activities of target groups and government officers in charge every 3 months.

CPMU will evaluate overall pilot activities before every JCC meetings and review and improve the crop production system as well as collection and delivery method. CPMU shall have a presentation of the evaluation results in JCC meeting.

JICA Project team together with CPMU will prepare the draft manual for establishment of crop production system.

2.11.1 Monitoring and Evaluation of Production Activities in accordance with Basic GAP

(1) Monitoring

The objectives of monitoring are to improve crop production system and to develop capacity of C/P for monitoring and evaluation. The monitoring item and methodology are as following table.

Table 2.11.1 Monitoring method of pilot activity

Target	Person in charge	Monitoring Item	Method
For producers	PPMU of each province	 Procedure of selection of production area of safe crop Cultivation according to check list (26 items) Record keeping of field diary by each members Record keeping of management book by group Execution of internal audit 	Record book of target group Field note of extension staff (commune and/or district level)
For government officers	PPMU of each province	 Confirmation of safety of production area (execution of soil and water analysis) Frequency of field visit to target group Witness of internal auditing by target group Execution of inspection of products upon delivery 	Field note of extension staff (commune and/or district level)

Source: JICA Project team

Technical staff of PPMU prepares a field report of the field activities of target groups and submit to PPMU once a month according to the monitoring item. A respective officer from PPMU visits target groups to supervise the operation of crop production system and prepares a monitoring report, which compile all data and records of pilot activities. The monitoring report will be prepared by PPMU every 3 months. All the data and records of pilot activities will be compiled as a monitoring report and used for evaluation.

(2) Evaluation

After completing the pilot activities, advantages and disadvantages, bottlenecks and counter measures of the crop production system in the pilot activities will be evaluated through monitoring reports and interviews of stakeholders. The evaluation will be conducted by CPMU with support of JICA Project Team before each JCC meeting. The results of evaluation will be reflected to the plans of the following pilot activities.

Table 2.11.2 Evaluation of Pilot activities

	Target		Evaluation indicators Method of obtaining data
Crop production system	Crop production system is executed properly in pilot activity.		Number of producers following instructions according to the system Number of government officers following instructions according to the system
	Contents of the system	1.61	Timing and frequency of safety Monitoring report

	satisfy requirements of safety standard	confirmation of target area, field visits and inspection of products	
Monitoring for producers	Producers follow the procedures according to BasicGAP	 Procedure and evidence of selection of target area Confirmation of check list (26items) Execution of internal audit 	Monitoring report Interview with producers
	Producers record field diary properly.	 Recording of field diary of each member Recording of field diary of target group 	Monitoring report
Monitoring for government officers	Government officer executes the safety confirmation of products	 Execution of safety confirmation (soil and water analysis) Execution of products inspection on delivery 	Monitoring report
related to pilot activities	Government officer supervises the target groups to follow the procedures according to Basic GAP	 Regular visit to target group Witness of internal audit of target group 	Monitoring report Interview with government officers

Source: JICA project team

The results of evaluation will be explained to all the stakeholders after completing the pilot activities. The measures to improve the activities will be reflected to the plan of the following pilot activities. The results of evaluation will also be used for the pilot activities in the semi-pilot provinces and for spreading the similar activities within the pilot provinces. The contents of evaluation should be comprehensive enough to apply them to not only the project-related provinces but also any other provinces in Vietnam,

2.11.2 Monitoring and Evaluation of Marketing Activities

(1) Monitoring

The organization responsible for monitoring, monitoring items and methods of obtaining data are shown below. Not only producers and buyers, but also PPMU officials who supervise the pilot activities are subject for monitoring.

Table 2.11.3 Monitoring method of pilot activities

	Monitoring by	Monitoring items	Method of obtaining data
Matching	PPMU	 Number of buyers who can participate in matching Number of matching events implemented Number of participants in matching events Number of business contracts as a result of matching 	Record of matching events by PPMU Data collected at the matching events
Collection and delivery	PPMU	Accumulated delivered volume Weekly delivered volume and received orders	Records by producer group Records by PPMU
		 The condition of observing the rules for washing, grading and packaging The condition of recording delivery information The condition of managing the labels The condition of delivering safe crop including the occurrence of mixed delivery The condition of storing and selling safe crop by retailers Number of claims received 	group Records by PPMU
		Difference between the average sales price in the pilot activities and the market price	Sales records by producer group Market statistics at PPMU
		The status of technical transfer of DARD official	Working record of PPMU officials

Source: Project team

Data for monitoring matching will be collected at the time of matching events by officials of respective

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PPMUs. PPMU of each pilot and semi-pilot provinces will receive weekly reports from officials of district DARD where the pilot activities are taken place and confirm it with the records of concerned producer groups.

(2) Evaluation

After completing the pilot activities, advantages and disadvantages, bottlenecks and counter measures in the collection and delivery system in the pilot activities will be evaluated through interviews of stakeholders. The results of evaluation will be reflected to the plans of the following pilot activities. All the data and records of pilot activities will be compiled as a monitoring report and used for evaluation.

Table 2.11.4 Evaluation of pilot activities

	Target	Evaluation indicators	Method of obtaining data
Matching	The producers and buyers reach to the business agreement	 Number of matching opportunities Number of business agreements reached 	Monitoring report
Collection and delivery	The safe crop which satisfy the quality and quantity required by the buyer is delivered	 Accumulated delivered volume Weekly delivered volume and received orders 	Monitoring report
	The system to ensure safety of crop functions	 The condition of observing the rules for washing, grading and packaging The condition of recording delivery information The condition of managing the labels The condition of delivering safe crop including the occurrence of mixed delivery The condition of storing and selling safe crop by retailers 	Monitoring report
	The safe crop is traded at the higher price than market price	Difference between the average sales price in the pilot activities and the market price	Monitoring report
Sales	Sales volume increases	Weekly sales volume	Monitoring report
	The produced crops gain the trust of buyers and consumers	Number of claims receivedEvaluation by retailersEvaluation by consumers	Monitoring Stakeholder interview

Source: Project team

The results of evaluation will be explained to all the stakeholders after completing the pilot activities. The measures to improve the activities will be reflected to the plan of the following pilot activities. The results of evaluation will also be used for the pilot activities in the semi-pilot provinces and for spreading the similar activities within the pilot provinces. The contents of evaluation should be comprehensive enough to apply them to not only the project-related provinces but also any other provinces in Vietnam.

CHAPTER 3 IMPLEMENTATION STRUCTURE

3.1 Pilot Project Implementation Structure

The basic pilot project implementation structure is shown in the table below.

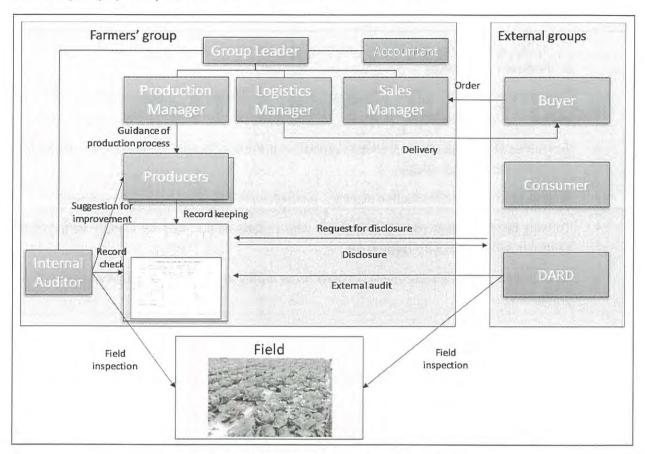


Figure 3.1.1 Pilot Project Implementation Structure

3.2 Roles and Responsibilities of Farmers' Group

Farmers' group (Agriculture Cooperative/ Company) is the main body of pilot project execution for safe vegetable production and sales. Each farmers' group shall carry out monitoring and self-auditing activities in compliance with requirements and steps prescribed in the basic GAP. The group also shall prepare production and delivery plan based on marketing activities, and provide supports to PPMU's technical officers and external experts during the consultation, monitoring and evaluation of pilot activities.

Each farmers' group shall establish a management body, which consist of the following members;

- 1) Group Leader/ Head of Cooperative
- 2) Production Manager
- 3) Internal Auditor
- 4) Sales Manager
- 5) Logistics Manager
- 6) Accountant

Roles and responsibilities of management members are as below.

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3.2.1 Group leader/ Head of Cooperative

- To be responsible generally for production and trading of products and internal auditing
- To organize, operate and maintain and develop the quality management system following Basic GAP
- To assign staff to record information based on the logbook forms which are applied for cooperative management
- To represent the cooperative to sign contracts with buyers and basic agreement with the cooperative members
- To represent the cooperative receiving supports on materials, finance, technologies from outside organizations and individuals
- To lead and supervise production manager, internal auditor to implement tasks assigned.
- To issue the decision of penalty to member who violates and/or does not comply with quality control in accordance with Basic GAP.
- To solve complaint, denouncement that may occur during production, collection and delivery of products.

3.2.2 Production Manager(s)

Production manager will be nominated one person per sub production group, which will be formed by maximum 20 farmers per target crop.

- To be supervised and directed directly by Group leader
- To organize and provide technical assistances to farmers.
- To organize group meeting with members when required.
- To directly supervise, remind members to comply with Basic GAP requirements.
- To recommend technical improvements in cultivation and quality system suitable with Basic GAP requirements.
- To monitor and instruct farmers/ members to correct non-conformity points as required in production activities.
- To participate in internal audit.

3.2.3 Internal Auditor(s)

- To be supervised and directed by Group leader.
- To develop audit plan and report to Group leader.
- To supervise all activities in the group throughout purchase of agricultural inputs, cultivation, harvesting, collection and delivery in accordance with Basic GAP.
- To supervise the corrective actions taken by farmers/ members.



- To audit the appropriateness of Basic GAP throughout the above process with check list.
- To prepare an audit report and report the result to the Group leader and production manager.
- To make recommendations for improvement.

3.2.4 Sales Manager

- To be supervised and directed by Group leader.
- To develop and implement a marketing plan
- To approach buyers pro-actively to promote the sales
- To draft the sales contracts and negotiate with buyers
- To participate in a stakeholder meeting, which consists of representatives from the farmers' group, buyer(s) and DARD.
- To receive and solve claims on products from buyers and/or consumers
- To maintain a reliable and sustainable relation with buyers
- To manage sales of products

3.2.5 Logistics Manager

- To be supervised and directed by Group leader.
- To assist designing of a cultivation plan developed by production manager,
- To design a delivery plan for joint sales through discussion with production manager and sales manager based on the orders from buyers
- To collect the products from farmers to meet the requirement of buyers in terms of quantity and quality
- To manage in-coming and out-going of products at pre-processing house/ vegetable storage
- To keep the pre-processing house/ vegetable storage safe and clean to meet the requirement on good post harvest handling and hygiene condition
- To hire and supervise the workers at pre-processing house/vegetable storage

3.2.6 Accountant

- To be supervised and directed by Group leader.
- To maintain daily money transaction (cash and bank)
- To maintain the account book, bank account
- To prepare annual account report

3.2.7 Individual Farmers

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- To participate in the pilot project activities actively
- To practice GAP in compliance with requirements of Basic GAP applied in the pilot projects.
- To follow the instructions of leader and management members of the group
- To maintain records of field practices in the notebook according to Basic GAP guidance.
- To collaborate with relevant stakeholders to carry out the pilot projects' activities.

3.3 Roles and Responsibilities of Stakeholders

3.3.1 MARD-CPMU

DCP/MARD establishes a CPMU to supervise the pilot projects for safe vegetables at central level. The roles and responsibilities of CPMU are as below.

- To supervise the pilot project activities in provincial level,
- To conduct trainings of trainers, such as basic GAP and marketing trainings with JICA project team,
- To disseminate information and knowledge to semi pilot provinces and knowledge sharing provinces,
- To prepare the evaluation report before every JCC meetings.

3.3.2 DARD-PPMU

DARD establishes a PPMU to conduct pilot projects for safe vegetables at provincial level, including providing technical officers of suitable professions for training of farmers, production, inspection and monitoring of food safety. Each pilot project should have one technical staff, who will be responsible for implementing field activities in pilot project such as giving instruction, monitoring activities at project sites. They can be from district agriculture extension center, Plant protection station at district level; or from DARD's Sub-Department/ Division). The role and responsibilities of PPMU are below.

- To nominate the technical inspectors and marketing persons in charge,
- To organize, monitor the pilot project activities,
- To organize trainings of farmers, such as basic GAP and marketing trainings,
- To coordinate with local program to support improvement of infrastructures.
- To disseminate information and knowledge to other farmers groups in province,
- To prepare the monitoring reports every 3 months.

3.3.3 JICA Project Team

- To provide technical supports to implement pilot activities from production to marketing including trainings, on-field instruction and coordination among stakeholders,
- To conduct TOT courses on Basic GAP and marketing with CPMU,

- To prepare manuals for establishment of crop production system, cultivation method and supply chain development,
- To support PPMU to organize trainings for farmers (TOF) on Basic GAP, post-harvest handling and marketing,
- To support installation of facilities and equipment to ensure food hygiene and safety
- To support designing and implementation of sampling and analysis of soil and water and pesticide residue check.

3.3.4 Buyers (wholesalers and supermarket) participating in the pilot projects

- Participate actively in the pilot project activities
- Ensure to have a separate section (effective segregation and traceability) to sell safe vegetables from the pilot projects.
- Collaborate with relevant stakeholders to carry out the pilot projects' activities.

- Provide all relevant information on safe vegetables.



CHAPTER 4 IMPLEMENTATION SCHEDULE

Pilot Project Implementation Schedule is shown in Attachment 4.1

Attachment 4.1 Pilot Project Implementation Schedule (Jan. 2017 - Oct. 2018)

Activity 1 Selection of Target Groups 1-4 Selection of ranger groups 2-4 Review of the safety of production area 2-1 Review of the safety of production area 2-2 Solid and waster stating (When recessing) 2-3 Issue of certificate of safe production area by DARD 3-3 Instinging to basic GAP 3-4 Thinkings to basic GAP	Organites San Feb Mer Apr Mar Jun 181 Aug 5ep Oct May Dec 181 Feb Mar Apr May Jun 24 Aug 6ep Oct May 181 Aug 1	S Oct Permeter
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simings for basic GAP	DARD FRANC	
	GPARL, JCA Project team	
3-2 TOP for beach size	FRAU, DC Profetten	
3-3 Training for post harvesting	FPMU. MG Project team	
Dialogue with Market		
4-1 Preparation of marketing tools (Producer & Duyer pro	Wer mailta Projection	
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2.4 Establishment of plants or management cost	T	
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7-4 Internal audit and evaluation	Et-	
grading conditions to ensure food hygiene and saft		S. Sandara and D. Sandara
8-1 Technical assessment for upgrading conditions	PRAMI, J.C. Profect team	
	3	
9 Post Harvest and Distribution		Company of the
9-1 Establishment of Stakeholder meeting	FPMUL/IC4 Project tesm	
	PPANU, JCB Project res a	
9-3 Pre Processing (washing sorting packing)		
Review of pupply chain and feedback	PRNUL JCA Project team	
		- The second sec
 Designing of esternal audit and sampling testing plan. 	Popul III. Popul III.	
2 External audit lay Gov officer and ACA Project teams	Trasm FPMU, UCA Project team	
ID-3 Preparation of audit report	AM6H	
10-4 Pestade residue check (quick test)	DWeb	
10-5 Pestade residue check (abbratory test)	FPMU.JCA Project team	
onitoring and Evaluation		24
11-1 Preparation of monitoring and evaluation plan		
11-2 Monitoring	AWE	
11-3 Eralustion	CANU	
aject Management		
השמתנה בל היוסטונטריות ביותפר	2004	
JUL meeting	CANO	
	4-3 Coff for Main target development 4-5 Producer & Buyer Delague 4-5 Producer & Buyer Delague 5-Cultivation Planning Breaters of Southerston Planning Breaters 5-1 Texpansion of production and physicia planning Special Copy Production and physicia planning Breaters of Southerston Planning Breaters 5-3 Pregnation of production and physicia planning Special Copy Production of Production of Production of Production of Production of Production of Production Planning Special Copy Production Activity 6-Cultivation method for Safe Vegatable 6-1 Production of Production Activity 7 On field instruction for Pasic GAP application 7-1 Instruction for Production Activity 7 On field instruction for Pasic GAP application 7-2 Instruction of Spicial Copy Production Activity 7-3 Internal meeting 7-3 Internal meeting 7-4 Instruction of Spicial Copy Planning 8-3 Production of Spicial Copy adding conditions 8-3 For Procuoring to ensure food hygiene and 8-1 Technical Sections of Production Of Spicial Copy 9-3 For Procuoring Food Planning packing packing production 9-4 Explaint of external and the Copy and Planning packing packing production of Programming and Explaints on Copy Copy Spicial Copy Planning Spicial Copy Production of Monthering Spicial Copy Production of Monthering Spicial Programming Spicial Copy Production of Monthering Spicial Programming Copy Planning Spicial Production of Monthering Spicial Production of Monthering Spicial Production of Monthering Spicial Production Spicial Production of Monthering Spicial Production Spicial Production Spicial Production Spicial Production Spicial Production Production Spicial Production Spicia	Family Care of Care

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