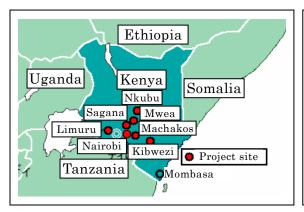
Ex-Post Monitoring Report for Horticultural Produce Handling Facilities Project

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Field Surveys: June and August 2009

1. Project Profile and Japan's ODA Loan





Project Location Map

Nairobi Horticultural Center

1.1 Objective

The objective of the project is to improve post-harvest processing of horticultural produce by constructing quality preservation facilities, thereby contributing to increase of incomes, poverty alleviation of small-scale horticultural farmers, as well as development of Kenya's foreign exchange earning capacity.

1.2 Outline of loan agreement

Loan Amount / Disbursed Amount	2,016 million yen / 2,016 million yen	
Loan Agreement/ Loan Completion	October 1993 / July 2001	
Ex-Post Evaluation Survey	FY2003	
Executing Agency	Horticultural Crops Development Authority: HCDA	
Main Contractors	Marubeni Corporation	
Consulting Services	Sanyu Consultants Inc.	

1.3 The Background and Reasons for conducting Ex-Post Monitoring Survey
In this project, pre-cooling and cold rooms were not utilized at all except Machakos

depot at the time of Ex-post Evaluation and there was a concern over the realization of project effectiveness. In the Ex-post Evaluation it was proposed that HCDA would continue to implement a number of recommendations proposed in the Special Assistance for Project Implementation (SAPI) and the Special Assistance for Project Sustainability (SAPS) surveys conducted by JBIC. Those recommendations are: to build trust with horticultural farmers and exporters, to lease the facilities out to the exporters for better utilization, to strengthen agricultural extension services, to improve the efficiency of finance / accounting, and so on. It was also recommended that JBIC (currently JICA) monitor implementation of the recommendations by HCDA.

Therefore, the project is subject to Ex-post Monitoring and the reviews based mainly on the results of the field surveys were conducted in accordance with the evaluation criteria, and the conclusion was led.

2. Monitoring Results

2.1 Effectiveness (Impact)

2.1.1 Utilization of Facilities

The facility utilization level varies from year to year, or seasonally, as the changes in the business environment and harvest conditions have substantial influences on it. The utilization of each facility at the time of the Ex-Post Monitoring (June and August 2009) is shown in Table 1 (p.5). The utilization of each facility is individually described as follows.1

2.1.1.1 Pre-cooling and Cold Storage Rooms²

- Facilities utilized as planned: Nairobi, Limuru, Sagana, Kibwezi
- Facilities partially utilized as storage rooms (without utilization of cooling functions): Yatta, Machakos
- Facilities not utilized: Mwea, Nkubu

Nonetheless, Mwea and Nkubu depots, which were not utilized at the time of the Ex-post Evaluation, were already under lease agreements between HCDA and exporters and were to be used in late 2009, and the preparatory work, i.e. distribution of seeds to the farmers, was being conducted.

2.1.1.2 Weighing / Packing Spaces

- Facilities in which weighing and packing spaces were both utilized: Nairobi, Limuru, Yatta, Sagana, Kibwezi

¹This is not the change in the status of utilization during a certain range of time, but it is the utilization status at the time of the field surveys.

In this project, cold storage rooms were introduced only into Nairobi Horticultural Center, and all other

facilities with the cooling equipment installed are regarded as pre-cooling facilities.

- Facilities in which only the weighing space was utilized: Machakos
- Facilities in which neither the weighing nor the packing spaces were utilized: Mwea, Nkubu

The spaces at Mwea and Nkubu depots were to be utilized by exporters, as in the case of the pre-cooling facilities.

2.1.1.3 Office Space

- Facilities utilized by exporters: Limuru, Yatta, Machakos, Sagana, Kibwezi
- Facilities utilized by NGO: Machakos, Kibwezi
- Facilities not utilized by anyone: Mwea, Nkubu

Office spaces at Machakos and Kibwezi depots were leased out and utilized by NGOs, in order to promote the effective use of the facilities when the exporters or groups using other equipment are not utilizing the office spaces.

2.1.1.4 Insulated Trucks

- Facilities normally utilizing the trucks: Kibwezi, Nairobi, Limuru, Sagana
- Facilities not utilizing the trucks: Yatta, Machakos, Mwea, Nkubu

Facilities not utilizing the insulated trucks at the time of the field surveys also had some records of leasing them between 2008 and 2009. When the trucks were not in use by the private companies, the staff at each facility used them in some cases as one of the means of transportation to patrol for technical assistance. At Kibwezi, all the three 3-ton trucks that had been owned by the depot in 2008 were all transferred to Nairobi Horticultural Center. Instead, one 8-ton truck that had been stationed in Nairobi was transferred to Kibwezi for the exporter's use.

2.1.2 Changes since the Ex-post Evaluation

2.1.2.1 Change in Business Model

This project was planned in the 1980s and was implemented between 1993 and 2001. During this period, the horticultural industry developed outstandingly under private-sector initiatives. As a result, major private companies had their own cold storages and packing facilities, and this led to competitions with the operations of HCDA. Also, the government sector reform was implemented in the 2000s, under the policy of market liberalization with the idea that the public sector should not expand their operations that would lead to competitions with the private sector.

Prior to the implementation of the project, HCDA prioritized the extension of assistance to small-scale farmers who tended to be alienated from the market and aimed to purchase the produce from the farmers, pack and export them by keeping the quality in the pre-cooling and cold rooms. However, as the demand for horticultural crops

increased, the small-scale farmers started having alternative options to sell their produce elsewhere. With these environmental changes considered, leasing of the facilities to the private sector was judged to be conducive to the improvement of facility utilization, to the vitalization of horticultural produce distribution, and to the benefit of the small-scale farmers as a result. The consequence was the change in HCDA's business model in 2005 in that the direct collection and sales model was abolished and the leasing of the facilities was introduced.

Table 1 Status of Utilization of Each Facility (As of June and August 2009)

Facility	Nairobi Center	Limuru	Yatta*	Machakos	Sagana	Mwea	Kibwezi	Nkubu
	○ 【Cold Storage】	o [Pre-cooling]	△ 【Utilized	△ 【Utilized	△ [Pre-cooling]	×	0	×
	(Utilizing 8 of 9	(Utilizing all 4	without	without	(Utilizing all 4	(Not utilized. 1	[Pre-cooling]	(Not utilized)
Pre-cooling /	rooms)	rooms)	pre-cooling	pre-cooling	rooms)	room was broken)	(Utilizing all 2	·
Cold Storage	,	ŕ	function	function	·		rooms)	
Room			(Utilizing 1 room	(Utilizing 1				
			as a storage of	room as a storage				
			hot peppers)	of bulbs)				
Weighing /	0	0	0	o(Weighing	0	×	0	×
Packing				space only)				
Space								
	Exporters 26	Exporter 1	Exporter 1	Exporter 1 NGO**** 1	Exporter 1	(Exporter 1)***	Exporter 1 NGOs**** 2	(Exporter 1)***
		Farmer Groups	Farmer Groups	Farmer Groups	Farmer Groups		Farmer Groups	
User**		15	10	16	6	Farmer Groups 50	8	Farmer Groups 29
		Individual	Individual	Individual	Individual	Individual Farmers	Individual	Individual Farmers
		Farmers 20	Farmers 50	Farmers 35	Farmers 20	8	Farmers 320	5
Office Space	_	0	0	0	0	×	0	×
Refrigerated Truck	o (3t)	o (3t)	×	×	o (3t)	×	o (8t)	×
	After the	In recent years,	An exporter has	Its pre-cooling	An exporter	Little	An exporter	Little
	completion of	this facility has	run its operation	room is not	fully utilizes	improvement has	started to fully	improvement has
	this project,	been fully	on a small scale.	utilized, and only	this facility, and	been observed as	utilize this	been observed as
Changes	HCDA made an	utilized thanks to	However, the	a part of the	its level has	the unstable	facility, and its	the unstable
since the	effort to improve	an advantage of	exporter is	room is used for	significantly	production volume	level has	production volume
Ex-post	the environment	its proximity to	planning to	storage.	improved since	has prevented the	significantly	has prevented the
Evaluation	for the use of the	Nairobi.	discontinue the		the Ex-post	exporters from the	improved since	exporters from the
	exporters, by		operation		Evaluation.	continuous	the Ex-post	continuous
	adding		because of			utilization.	Evaluation.	utilization.
	hand-wash basins		smaller profits					
N	and restrooms.	4111 1 NT . 4 . 411	after low rainfall.					

Note: \circ - Fully utilized, \circ - Partially utilized \times - Not utilized

^{*}The hot pepper exporter in Yatta depot was scheduled to leave in late 2009 to consolidate their operation in another district.

^{**}The utilization of the facilities by farmers means 'the number of farmer groups/ individual farmers who receive the services', i.e. technical assistance from HCDA at the time of field surveys, not the utilization of facilities.

^{***}While these facilities were not utilized at the time of the field survey in June, there were lease agreements between the exporters and HCDA from the end of June. (After that, it was confirmed that the preparations toward utilization had gradually been started.)

^{****}The utilization by NGO is limited to the use of office spaces.

2.1.2.2 Results of Change in Business Model [Facility Utilization]

Since 2005, a lot of exporters, large or small, have utilized the facilities, depending on the business environment and harvest volumes. Nairobi Horticultural Center, whose locational inconvenience had been pointed out in the Ex-post Evaluation, is currently utilized in full. Also, Limuru, Sagana, Yatta and Kibwezi, not being used at the time of Ex-post Evaluation, were utilized by the exporters. This is the positive result of the change in the business model. At the same time, however, some exporters also expressed their views that it would be more efficient to collect the produce directly from the farms to their facilities around Nairobi Airport for packing.

[Relationship between HCDA and Farmers]

Since 2005, the role of HCDA has changed substantially from the body to collect and sell on behalf of the farmers to the entity that leases the facilities to the private exporters and offers technical trainings on cultivation and market information to foster small-scale farmers. Their technical services are offered to the farmers free of charge. According to the interviews conducted during the field surveys with the representatives of the farmer groups and with 70 individual farmers, more than 80% of the farmers responded that they were satisfied with the services offered by HCDA (especially technical services and trainings). They also responded that the reasons why they had not used HCDA facilities by themselves are that the production volume was low, that they could not afford the rent of the facilities, and that they were not large enough to do the collection and sales instead of the exporters.

2.1.3 Implementation Statuses of Recommendations in JICA Surveys

2.1.3.1 Efforts by Kenya

After the completion of this project, JICA conducted SAPS twice, during 2002 and 2003, and provided advices for realizing the better collection and selling of crops, and leasing the facilities to exporters. In this monitoring survey, implementation statuses of the recommendations proposed in the Ex-post Evaluation as well as the statuses of the recommended points that had been proposed in other past surveys but had not been tackled at the time of Ex-post Evaluation, were all confirmed as shown below in Table 2.³

³ At the time of the Ex-post Evaluation, HCDA had separately developed concrete plans for the establishment of a subsidiary for the purpose of promotion of utilization of each facility and better operational management. The subsidiary was actually incorporated and registered once. However, HCDA Board of Directors eventually decided to abandon the operation of the subsidiary after the State Corporation Advisory Committee of the Government decided that public corporations should not undertake pure business activities.

Table 2 Recommendations from the Ex-post Evaluation, Advice from SAPI, SAPS, and the Implementation Statuses at the Time of Ex-post Monitoring

	Recommendations from Past Surveys	Current Status (Ex-post Monitoring)	
	HCDA has made an effort to increase the	With the change in the business model in 2005, HCDA no	
	opportunities for bringing crops into	longer conducts direct collection and selling. Many exporters	
	Nairobi Horticultural Center by going	located in Nairobi collect crops by directly sending their own	
	around the horticultural farms to collect	trucks from Nairobi.	
	crops at the depots by pick-up trucks.		
	They are expected to continue such		
	efforts.		
Recommendations from Ex-post Evaluation	Rather than having HCDA operating the	After the change in the business model of HCDA, leasing of	
lua	depots, leasing the depots to exporters for	the depots to exporters has been promoted. Operations of the	
īva	their operation as originally planned	depots have been conducted by HCDA itself so far, but it is	
st E	would be another option. Also, marketing	being considered as one of the options that all the facilities are	
-bo	activities targeting the exporters are	wholly leased to an exporter organization. Also, HCDA is	
Ex	important.	making an effort to strengthen the marketing system, and have	
)m		recently focused on the recruitment from the private sector.	
fro	Make a marketing progress in the	Since the domestic market is significantly larger than the	
ons	domestic market as well as export	export market, HCDA provides guidance for the cultivation of	
lati	markets.	crops that have comparative advantages in each region for	
enc		domestic sales.	
nm	Make a progress in securing its own	HCDA is currently operated with the subsidies from the	
cor	financial resources	Government, making it having a role as a public entity.	
Re		Therefore, it is not expected to secure its own financing by	
		operating the facilities for profit.	
	Make a progress in fostering human	Recently, some personnel recruited from the private sector	
	resources for marketing etc.	have worked as the managers of some depots or have been	
		assigned in the marketing section. HCDA has made an effort to	
		improve the utilization of facilities in this regard. Also, short-	
		and long-term trainings are conducted every year, among	
		which are the training programs by JICA.	

	Recommendations from Past Surveys	Current Status (Ex-post Monitoring)		
	Build the relationship of trust with	Very good relationships between HCDA and farmers have been		
	farmers at the depot level (payments	established, not through collection and selling but through the		
	without delays, and marketing activities	trainings and technical assistance. According to the interview		
	for exporters)	survey with farmer groups, however, it was also heard that		
		some farmers hope to reintroduce the collection and selling		
		activities as previously conducted by HCDA.		
on	Improve accounting by utilizing	With regard to the improvement of accounting operations,		
ıati	computers	HCDA continues to ensure the account processing and		
/alı		reporting to the headquarters by the depot managers, to		
Ē		perform internal audit and to conduct trainings. Also, the		
ost		introduction of the ERP (Enterprise Resource Planning)		
1-x		information system to link all the facilities was in progress. At		
f E		the headquarters, computers were introduced and they perform		
o et		the account processing by using software. However, due to the		
tim		change in the business model, the separation of accounts		
the		between the entire Authority and this project has not been		
at 1		conducted recently. In the future, this project will be separately		
ted		treated in terms of account processing.		
en	Strengthen marketing activities for	Since the change in HCDA's business model, they have		
len	exporters etc., who would be the potential	strengthened the marketing department and recruited some		
mp	customers	depot managers from the private sector to promote the		
Advice that had not been implemented at the time of Ex-post Evaluation		utilization of the facilities.		
pee	Improve the action plan schedule and	In addition to the preparation of the action plans at the		
ot	familiarize the employees with it	headquarters and the depots, HCDA as a whole is drafting the		
ıd r		"Strategic Plan (2009-2013)".		
t ha	Create a website of HCDA	While the website was initially set up in 2004, it had not been		
tha		available since April 2009 due to a problem of the outsourced		
ce		company. However, the renewed website became partially		
dvi		available from August 2009.		
Ā	Introduce an employees' performance	Every year, Staff Performance Appraisal Report covering 9		
	evaluation system	sections is prepared to evaluate the achievement of the targets		
		set up at the beginning of the year. It has been operated over		
		the last 6 years and has become an important mechanism.		
	Further technical assistance by the	Ministry of Agriculture, along with HCDA, conducts seminars		
	Ministry of Agriculture and Livestock	regarding Good Agriculture Practice in Europe (major export		
		market) and Kenya and the standards for the concerned parties.		

2.1.4 Efforts by JICA

Although JICA conducted SAPI (2000) and SAPS (2002 & 2003) to promote the utilization of the facilities, some recommendations were difficult to be implemented due to the complete change of the business model. On the other hand, as the importance of making efforts in improving the utilization level of the facilities remains the same, JICA Kenya Office has checked the utilization levels by visiting the Authority as well as the facilities, and undertakes follow-ups of the improvement measures.

2.1.5 Internal Rate of Return

The FIRR will be negative as the operating expenses have consistently been larger than the revenues from the facilities since the completion of the project.

2.1.6 Impact

2.1.6.1 Export Promotion of Horticultural Crops

The horticultural industry is the fastest growing industry in the agricultural sector in Kenya. Export value, volume, and the number of exporters increased substantially, as shown in Figure 1 and 2. While the direct contribution of this project to the increase in export is limited as this project is only a part of the industry that grew under the initiatives of the private exporters, HCDA's major work is to provide technical assistance to farmers and small-scale exporters, and it can be said that HCDA is contributing to the increase in exports through the technical assistance for the increase in production by farmers, as is obvious in the results of the beneficiary survey. Also, the facilities are used for technical assistance workshops, thus it can be said that increase in the farmers' income would be resulting from the existence of these facilities. About 70% of the farmers answered that their income had increased. More than 80% of them answered that they were satisfied or, very satisfied with the technical assistance services provided by HCDA. Although the facilities are not currently utilized by them, nearly 80% of the farmers responded that the facility could be an important base as a hub for the distribution of their produce in the future.

Nairobi Horticultural Center, almost fully operated, is utilized mainly by small-scale exporters, thus it can be said that it is contributing to the expansion of the horticultural industry base by providing the location for their operations. Around Nairobi Airport, there were some exporters that expanded their businesses and became independent after getting the support from HCDA.

250,000 80,000 70,000 200,000 60,000 50,000 150,000 (ton)40,000 100,000 30,000 20,000 50,000 10,000 2007 2003 2004 2005 2006

Figure 1 Export Volume / Value of Horticultural Crops

Source: Data supplied by HCDA

Export Volume (ton)

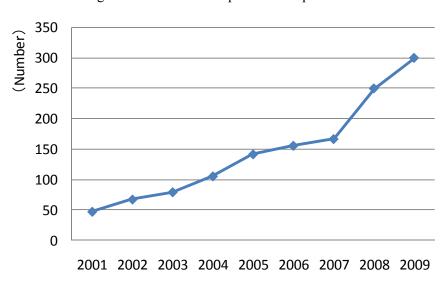


Figure 2 Number of Exporters in Operation

Export Value (mil. Ksh.)

Source: Data supplied by HCDA

2.1.6.2 Environmental / Social Impact

2.1.6.2.1 Impact on Environment

Since the completion of this project, no soil analysis has been performed. However, no abnormality has ever been reported. The hand-wash basins are the only places where some sort of detergent is always drained, and no particular problems have been observed. HCDA plans to conduct an environmental impact assessment of all the

facilities from next year as part of their annual inspection program.

2.1.6.2.2 Impact on Society

Almost all the workers employed by the exporters for sorting crops in accordance with the quality standards at Nairobi Horticultural Center are women. As all the exporters that utilize the Center are small-scale, provision of the operating base to those companies would lead to the securing of employment of women workers.

No particular problems have ever been reported as to the resettlement of residents required in this project.

2.2 Sustainability

2.2.1 Organizational Structure

The organization of HCDA, consisting of 216 employees as of August 2009, is divided into 3 departments under the Managing Director (Figure 3), i.e. Finance, HR & Administration Department (138 staff) ⁴, Marketing, Strategic Planning & Systems Development Department (20 staff) and Technical & Advisory Services Department (57 staff). HCDA is planning to consider restructuring the Authority for more efficient operations as specified in the "Strategic Plans for 2009-2013".

Maintenance is assigned to 4 staff in the Technical & Advisory Services Department. They undertake the repairs based on the requests received from each depot.

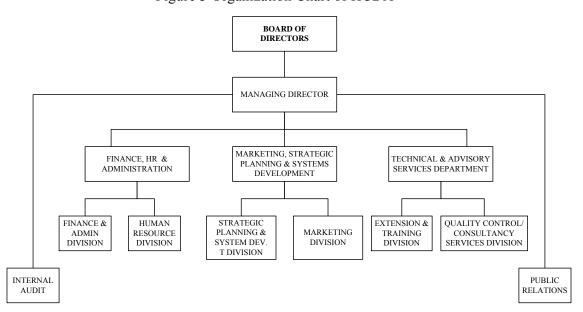


Figure 3 Organization Chart of HCDA

Source: HCDA "Strategic Plan for 2009-2013"

Including the staff in the offices/depots located in various parts of the country

2.2.2 Technology

No particular problems were identified, as the facilities developed in this project are not technologically complex. According to HCDA, in case they had any troubles with the equipment, the maintenance staff mentioned above would deal with the troubles without any problems.

2.2.3 Finance

As shown in Figure 4, the expenses have always been larger than the revenues in this project since the construction was completed. However, as HCDA's current top priority is to promote the utilization of the facilities, fee levels have been set in accordance with the guideline of the Ministry of Public Works and have not been raised to make profits. The majority of HCDA's budget is provided in the form of subsidies from the Government at the moment and the Authority is expected to perform as a public entity.

Also, as described in Table 2, the account of this project is treated as part of the overall account of HCDA.

2.2.4 Maintenance Conditions

With regard to maintenance, no particular problems that would hamper the proper use of the facilities were identified.

80,000 60,000 40,000 -20,000 -40,000 -80,000 -100,000 Revenue Expenditure Balance

Figure 4 Changes in Revenues and Expenditures of the Project

Note: Post-2009 data are the figures projected by HCDA.

Source: Income Stattement specially prepared by HCDA for this survey

3. Conclusion, Lessons and Recommendations

3.1 Conclusion

During the period of planning and completion of this project, the surrounding business environment changed substantially: the horticultural industry, which rapidly grew with the private sector initiatives, led to the ownership of the facilities by the exporters etc. Under such circumstances, HCDA changed their business model from the direct collection and sales to the leasing of the facilities. It can be said that this was an appropriate decision, considering the social environment of that time, with a viewpoint that the subsidized public entities should not compete with the private sector.

There was room for improvement regarding the efforts to be made by HCDA for the improvement in the utilization statuses of the facilities and in supporting the expansion of marketing channels of the farmers when the collection of the produce from the farmers was halted in 2005. However, HCDA made various efforts such as the provision of technical assistance to the farmers on the sales of crops to private companies. Also, the farmers' income generally increased through the industry-wide growth led by the private sector.

As the yields of horticultural produce changes due to the risks of seasonal and annual fluctuations, not all facilities have yet secured the users in a continuous manner. But the utilization status of the facilities is on the improving trend in that the number of facilities

where the cooling / pre-cooling functions were utilized increased from 1 at the time of Ex-post Evaluation to 4 in this monitoring survey.

3.2 Lessons

3.2.1 Understanding of Problems in each Facility

It is expected that the formulation of a strategy toward further utilization of the facilities will become possible by understanding the problems of each facility from their utilization records and the financial conditions. In the project similar to this in the future, it is desirable that a mechanism to grasp the utilization records and the financial conditions of each facility be established at the time of project planning, and the appropriate, facility-specific strategy be formulated.

3.2.2 Prompt Understanding of Market Environment

The market environment changed substantially during the long period when the project was planned, implemented and completed. However, the surveys and researches to investigate the effects and lessons of this project, as well as the data maintenance etc., have been insufficient. As this is a project with a large financial deficit, it is necessary to analyze the current causes objectively and logically. In the future project that may deal with the market, it is desirable that the market environment be monitored regularly and its result be reflected into the organizational management as much as possible.

3.3 Recommendations

3.3.1 Recommendation to the Executing Agency

One of the viable plans to promote the utilization of the facilities by farmers is to encourage farmers groups, separately located in the areas around each facility, to coordinate with each other, thus organizing the larger farmer groups. Individual groups produce only a small volume of crops and they are always in a disadvantaged position against exporters when negotiating. However, it is possible to secure a stable volume of crop yields and strengthen their bargaining power against exporters, by organizing an association of farmer groups for the purpose of strengthening marketing capacities. In light of the objective of this project as well as the role of HCDA to support small-scale farmers, it is desirable that HCDA support the concrete actions by providing further marketing assistance to such farmer groups, coordinating the representatives of the farmer groups, providing meeting spaces, and assisting them with the process of formation of the associations. As the associations could use the facilities as the places for cooling and

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⁵According to interview survey with the farmer groups, many of them expressed strong interests in this idea, and some of them actually completed the procedure for organization.

packing the produce and for negotiating with exporters and middlemen to hand over the produce, it is possible for HCDA to increase revenues.

The formation of associations of farmer groups may not progress as planned in some regions. In that case, it would be possible, in light of the project objective, to promote the comprehensive use of all facilities by exporter companies, which is under consideration at HCDA as one of the options. HCDA will need to continuously undertake various efforts toward the improvement of the farmers' living standards by taking into consideration that the roles of exporters and middlemen vary across the regions. As the first step, it will be important to conduct the analysis of the current situations regarding the market environment and the conditions the farmers are facing.

Also, in the technical cooperation project, "Smallholder Horticulture Empowerment Project (SHEP), which was separately implemented from 2006 with the assistance of JICA, organizing of horticultural farmer groups was supported. It is also possible that the findings and outcome of this technical cooperation will be utilized / applied.

Comparison of Original & Actual Scope

Item	Plan	Actual
1. Output	Sagana: 20 tons twice a day	Sagana: 20 tons
Pre-cooling	Limuru: 10 tons twice a day	Limuru: 15 tons
facilities	Kibwezi: 15 tons twice a day	Kibwezi: 10 tons
(tons/day)	Nairobi: 10 tons twice a day	Kubu: 10 tons
	Total: 110 tons (4 locations)	Mwea: 20 tons
		Yatta: 10 tons
		Machakos: 10 tons
		Total: 95 tons (7 locations)
Cold storage	Nairobi: 110 tons	Nairobi: 100 tons
facilities	Sagana: 20 tons	Total: 100 tons (1 location)
(tons/day)	Limru: 10 tons	
	Kibwezi: 15 tons	
	Total: 155 tons (4 locations)	
Related	Forklift trucks	8.5-ton insulated trucks × 17
equipment	Weighing scales	3-ton dry van truck × 27
	Insulated trucks (4-ton × 3)	Pickup vehicles × 7
	Management-use vehicles (2), etc.	Motorbikes × 7
		Four-wheeled vehicle × 1
		Total: 8 vehicles
		Crates / carts for crate movement
Consulting	124M/M	82M/M
services		
2. Project period	L/A conclusion: Oct. 1993	L/A conclusion: Oct. 1993
	Consultant selection: Dec. 1993	Consultant selection: Dec. 1994
	Contractor selection: Feb. 1995	Contractor selection: Jul. 1999
	Equipment procurement: Mar. 1995 -	Equipment procurement: Aug. 1999 -
	Jun. 1996	Mar. 2001
	Consulting services: Jan. 1994 - Dec.	Consulting services: Dec. 1994 - Jul.
	1996	2001
3. Project cost		
Foreign currency	1,491 mil. yen (877 mil. Ksh)	2,016 mil. yen (1,134 mil. Ksh)
Local currency	881 mil. yen (518 mil. Ksh)	2,404 mil. yen (1,353 mil. Ksh)
Total	2,372 mil. yen (1,395 mil. Ksh)	4,420 mil. yen (2,487 mil. Ksh)
ODA loan portion	2,016 mil. yen (1,185 mil. Ksh)	2,016 mil. yen (1,134 mil. Ksh)
poron	, y (-,100 1201)	1 Ksh = approx. 1.78 yen*
Exchange rate	1Ksh (Kenyan shilling) = 1.7 yen	(*IFS ⁶ -based simple average
	- (,	during the project period)

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⁶ International Financial Statistics by IMF