Preparatory Survey on BOP business on High-Value Added Skin Care Product Business by Using Surplus Agricultural Crops to Benefit Small Scale Farmers and Women

Report (Summary)

January, 2016

Japan International Cooperation Agency (JICA)

ROHTO Pharmaceutical Co., Ltd.

Alliance Forum Foundation

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1 Survey Overview

1.1 Background and Objective of the Survey

1.1.1 Survey Background

Having 60% of the workforce engaging in the sector, agriculture is the important drive contributing to socio-economic development of Republic of Kenya (hereinafter "Kenya"). In order for the growth of the agricultural sector, the small scale farmers who produce about 70% of the agricultural products in the market are the key players. Especially, it is essential to improve the productivity and to add values to their products. However, their productivity remains very low. Additionally, most of the small scale farmers typically suffer from low management capacity on productivity and quality control, monoculture production that is greatly affected by seasonality and lean harvesting, unequal buying price lowered by middlemen, and wastage generated by lack of storage or disqualification to the standard. There are some efforts to add values to the products by introducing food processing, but most farmers could not market their products effectively since they lack the knowledge on the market trends to make the packaging or branding attractive. As a result, product development or the sales itself have remained restrained.

Therefore, in order to contribute to the income generation of the small scale farmers, the support to improve the productivity as well as the support to make them understand the needs of the market are important. In that sense, the assistance has to be provided through the entire value chain system, from production to storage, processing, and sales.

1.1.2 Survey Objective

This survey was conducted to develop skincare or haircare products that are made from the agricultural products of Kenya, especially those which will be disposed otherwise. Through the sales of such products, Rohto Pharmaceuticals Co., Ltd (hereinafter "Rohto") especially focuses on involving the low income small scale farmers into the value chain so that they can be benefited by increased productivity or income. Additionally, in the future, Rohto aims to provide employment opportunities to women at its factory so that the business can contribute to women's participation in the society as well.

2 Summary of the Survey

2.1 Summary of the Survey

2.1.1 Outcome of the survey and its evaluation

This survey was undertaken by taking the following steps: 1) examine the potential demand in haircare and skincare market with special focus on awareness and perception of Kenyan women toward health and beauty by understanding social and economic situation which surround them, 2) design and develop products for test marketing to examine if they meet market demand, and 3) identify surplus crops that can be used as ingredients from the perspective of availability, marketability, and social impact.

The result suggests that there is potential for high demand of haircare products in Kenya. Supporting macro factors include high economic growth rates of the countries, rapid increase in the number of youth and middle-income households, and women's social advancement. In addition, high share of hair dressing expenses in total household expenditure as well as strong relationship between women's hairstyles and social status are also considered to be the driving force for the market growth. Products designed in this survey are expected to propose a new value to Kenyan women, which accords with the mission of Rohto called "Happy Surprise¹". The business model developed through the survey could also work as a stepping stone for the future expansion of Rohto to the East African Region.

Several challenges are also identified through this survey. For instance, ensuring the profitability of the business is not easy because the size of economy is small and the number of the wealthy class is still limited compared to Asian countries where Rohto conducts business. Also, as the business concept is new, it requires some time to establish a brand and concept to penetrate the market. Finally, as a result of production survey and test marketing, lack of human resources in production and sales is recognized.

Based on the results of the survey, it is decided that the business goal should be set to achieving profitability in the medium term rather than seeking short term profit as it may not be realistic considering the time required to create the market. As the first step, Rohto will establish its brand in the luxury haircare product segment in the country. Then the profit will be sought by progressively expanding the segment in Kenya, and at the same time, transplanting the business to other Eastern African countries. The business will be launched in 2016 by importing products from Asia, some of which are prescribed for Kenyan women, and if the brand is successfully built and also market is found to be promising, new products in different customer segments may be sold, and in the meantime local production and raw material procurement will be explored.

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¹ Rohto is committed to the spirit of this slogan as it aims to become a constant source of surprise and happiness for customers and society at large.

2.1.2 Evaluation for Commercialization

The major reason for commercialization is high potential demands of the market and strong connectivity with the regional strategy. In Kenya, it is tradition for women to weave their hair, and this constitutes a major part of women's fashion and social status. Recent economic development changed the lifestyle of urban women dramatically, and the importance of stylish hair is increasing due to the social advancement of women. However, many women suffer because such customs like weaving puts stress on the scalp, which causes dandruff and itchiness leading to a receding hairline and hair-volume. Therefore, scalp care is indispensable for women who wish to enjoy their hair style in a long term. Haircare and skincare market in Kenya is very competitive as the products from the EU, United States, Middle-East and India flow into the market. In order for Japan brand, new entrant, to successfully establish itself in the market, either the massive advertisement or development of innovative products that can create new market segment is needed. Although the concept of scalp care is still not known in Kenya, there is a high potential if the market is successfully created. Also, development of functional products is the specialty of Rohto, and the products backed with evidence gained through medical research in its lab will convince customers the effectiveness of the products which can differentiate them from those of other brands. Since the potential of such new market cannot be evaluated just by financial indicators, the business will start in small-scale and gradually expand by reflecting the feedbacks from customers and improving the product.

2.1.3 Initial Business Model and Assessment

In this survey, potential demand of scalp care was first identified through interviews and questionnaire surveys, followed by designing of marketing channel and product concept. For effective development of scalp care product market, close communication with potential customers to make them familiar with the concept of scalp care and stimulate demand for scalp care products is essential. Therefore, it was assumed that beauty salons in Kenya could be an effective marketing channel because Kenyan women receive information and advice on their hairstyle as well as hair care at beauty salons. It was also hypothesized that the provision of spa service along with the sales of the products could facilitate customers' understanding of the concept and value of the products. Finally, the feasibility of local production was examined to explore the potential of making social impact. This survey focuses on haircare market and does not include the skincare market because at the early stage of the survey haircare market was found to be more promising. The assessment result is summarized as follows:

	<u>Hypothesis</u>	Verificaion Methodology	<u>Result</u>
1	Potential Demand of Scalp Care in Kenya	Shop survey, Salon Survey, Customer Interview, Questionnaire Survey	Kenyan women suffer from hair loss, dandruff, itching Products available in the market alleviate the symptom of dandruff and itching, but do not improve the condition of scalp Kenyan women accept the trouble as inevitable and their needs are not obvious
2	Marketability of Scalp Care and Hair Growth Products	Salon Survey, Customer Interview, Household Survey, Focus Group Interview, Test Marketing	Working women in their 20s-30s are concerned about receding hairline Hair dressing represent social status and their interest in hair growth is high Many expect immediate effect and their understanding about the necessity of continued scalp care is low
3	Viability and Effectiveness of Providing Spa Service at Salons	Salon Survey, Test Marketing , Questionnaire Survey	Salonists are the source of information and fashion advisor for Kenyan women Acceptance of spa services at salons is high However, training Salonists is difficult and alternative measure is needed to promote the products
4	Feasibility of Local Production	Raw Material Survey, Oil Refiner Interview, Cosmetic Producer Interview, Packaging Company Interview	Procurement cost is high and the stability is low for oil Purification technology is limited and oil refining with a small lot is difficult Technical level of cosmetic producers and the package manufacturers is insufficient to produce high-end hair care products

Figure 1: Assessment Result of the Proposed Business Model

2.1.4 Assessment Result 1: Potential Demand of Scalp Care in Kenya

The results of the questionnaire survey shows that Kenyan women suffer from hair loss, dandruff, itching, and they also recognize the damages to the scalp. There are products to alleviate the symptom of dandruff and itching, but they do not improve the condition of scalp. Some products claim on the package that it makes hair grow but no such hair growth component is found on the ingredient list. Although Kenyan women accept the trouble as inevitable and therefore their needs are not obvious, the survey result shows a strong interest in the product that prevents hair loss. Therefore, it is assumed that if the measures are taken effectively to make the needs visible, the demand will increase.

2.1.5 Assessment Result 2: Marketability of Scalp Care and Hair Growth Products

In the focus group interview targeted at working women in their 20s and 30s, many are found to be concerned about receding hairline, and the problems of scalp damage. Moreover, since hair dressing represents social status, their interest in hair growth is high. On the other hand, many expect any product to show immediate effect, and their understanding on the necessity of maintaining healthy scalp is low. Thus, a close communicate with customers to make them understand the importance of continued scalp care is essential.

2.1.6 Assessment Result 3: Viability and Effectiveness of Providing Spa Service at Beauty salons

Test marketing undertaken in several beauty salons using prototype products confirmed that the customers' acceptance of spa services is high, and the procedures of spa service given by persons in charge of shampoo is also found to be feasible. In addition, by giving incentives to Salonists, they actually recommended the target products to the customers. However, since Salonists are self-employed working on commission-based, beauty salons which actually buy the products cannot order Salonists to recommend particular products, and therefore it is difficult to ensure the communication with the customers. Direct training to Salonists is not practical at an initial stage because learning how to describe the concept of the products and explain the features to the customers will take too much time for the Salonist whose main service is hairdressing, and unless financial return is clearly shown, there is no incentive for her to learn a completely new concept Therefore, it is concluded that the sales representative needs to be trained by Rohto itself to establish the sales channel through beauty salons.

2.1.7 Assessment Result 4: Feasibility of Local Production

According to the results of the raw material procurement research, surplus crops can be best utilized as the form of oil because it only requires simple technology which can be realized in Kenya. After examining several crops, soybean oil was selected based on cost, efficacy, novelty, adaptiveness to scalp, and effect on hair growth. Then research was conducted to verify the potential of producing refined oil using locally produced soybean.

There were major conditions that have to be overcame to realize local production, which were 1) stable raw material procurement for the production, 2) purification technology of oil that can be used as cosmetics, and 3) the production of cosmetics. First of all, although the procurement cost is high the stability of the procurement volume is low. In addition, manufacturers with adequate level of purification technology are limited. Edible oil manufacturers with high purification techniques are reluctant to work as Original Equipment Manufacturer (OEM) with a small lot Rohto requires for its products. Furthermore, technical level of cosmetic producers and the package manufacturers is found to be insufficient to produce the luxury haircare products. Therefore, it is decided to first introduce the products by importing from Rohto's other global facilities. However, since the import cost of finished products is high, the possibility of local production will be continued to be sought to be deployed in the business expansion phase.

2.2 Business Model

2.2.1 Overview of the Business Model as a result of the survey

The proposed business is targeted at Kenyan women in the Greater Nairobi and Mombasa City, who are in their 20s and 30s and whose household income is above 40,000 Kenyan Shilling (Ksh) to sell cleansing oil for scalp, shampoo, treatment, and hair growth serum. A concept of the business is to deliver "Happy Surprise" by offering solutions which stimulate hair growth by improving scalp condition to women who have been continuously putting stress on their hair by weaving or other hair styling.

Table 1: Product Concept

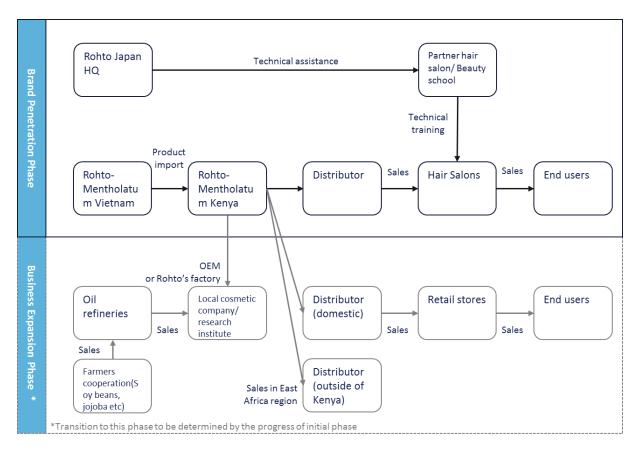
Target customer	-Age: late twenties to thirties	
segment	-Career-oriented ladies	
Value to	-Enhance the condition of hair to enjoy self-expression with own hair	
customers	style	
Product/ Service	-Daily haircare product for scalp cleansing and hair growth, namely	
	cleansing oil for scalp, shampoo, treatment, and hair growth serum	
	-Special care (Deep cleansing) service product for hair beauty salon use	
Product image	-High utility and functionality product	
	-Premier branded product (as a secret for successful ladies)	
Promotion	-Promote/ educate importance/ impact of "Scalp care".	
approach	-Experience/ understand effect/ delight of Rohto products through	
	service at a beauty salon	

(Source: Study Team)

The business is divided into two phases: 1) the brand penetration phase, and 2) the business expansion phase. In the brand penetration phase, awareness of scalp care will be raised through head spa services at beauty salons whose targets are wealthy women. As the only product approaching to scalp damage, the recognition of the brand would be enhanced. Rohto will import finished products which are prescribed for Kenyan women from Asia, and sell them to the salons by utilizing local distributers. Besides, in order to support the spa services and promotions of products at salons, it cooperates with local high class salons or beauty schools and trains sales representatives who have knowledge on products as well as treatment skills. Rohto's head office may dispatch the engineers as trainers.

During the business expansion phase, Rohto will venture into the market of surrounding countries of Kenya. At the same time, an expansion to the non-premier product market will be considered in Kenya, by evaluating the degree of brand penetration, in particular among the

wealthy class, as well as the rate of sales growth in the luxury product market. At the same time, local production of certain ingredients will be considered. If it is judged that cost benefit can be achieved, Rohto will procure raw materials locally including soybean oil, and will produce and package the products in Kenya.



(Source: Study Team)

Figure 2: Business Model

2.2.2 The Remaining Challenges and Countermeasures The remaining challenges and countermeasures are as below.

Table 2: Remaining Challenges and Countermeasures

Phase		Remaining Challenges	Countermeasures
Import sales	1	Delivering "right" message to end users (while utilizing hair salon as main communication channel)	 Alliance with Hi-end hair salon and Beauty school in Nairobi Direct communication to end users through media such as fashion magazines
Local production		Lack of technical capability of local cosmetic company	 Technical transfer in R&D to partner company Study on local production possibility by establishing own factory, as an alternative
	3	Absence of oil refineries capable for small lot production for cosmetic products	 Alliance with Research institutes such as JKUAT and KEFRI Dispatching Rohto's engineers, and training to local technicians in alliance with JICA
	4	Steady law material purchase from local farmers	 Organizing farmers' groups in alliance with JICA volunteers

(Source: Study Team)

During the brand penetration phase, the largest challenge is to build sales channels through beauty salons. In the original plan, it was assumed that Salonist could spread the value of the scalp care to Kenyan women. However, it was found that Salonist lacks a sense of belonging to salon because she works on commission-basis, so that capacity building by training may not necessarily lead to improved customer service. The existing Salonists have limited sales skills to communicate with the customers to explain the merit of scalp care and product features indispensable to achieve sustainable sales. Therefore, the cooperation with high class salons which are used to communicate with the targeted high class women, or with the beauty schools to develop people who can offer spa services and promote scalp care products, will be considered. Besides the expansion through salons, the recognition of the brand will be improved by disseminating information to the general consumers through other media such as fashion magazines.

Local production is intended during the business expansion phase, but there are challenges respectively on local procurement, oil refinery, and production. Firstly, it is difficult to procure materials from local farmers because current organizational capacity of co-ops is weak while most members are small scale. Therefore, support for organizing farmers by utilizing JICA Volunteers (JOCV) will be considered. Secondly, regarding oil refinery, there are few oil refiners who can refine oil in a small lot. As a countermeasure, partnering with research institutions such as Jomo Kenyatta University of Agriculture and Technology (JKUAT) and Kenya Forestry Research Institute (KEFRI) will be explored to produce high quality oil refining system in a small lot. According to the situation of market development, the creation of own oil refining system by Rohto will also be considered. In any case, since transfer of technology on site is indispensable, in order to develop engineers, dispatch of trainers from Rohto, as well as

sending specialists from Kenya to Japan in cooperation with JICA will be examined. Finally, regarding production, the prospective outsourcing manufacturers are limited as local cosmetic manufacturers lack sufficient skills. Therefore, transferring of production technology to prospective business partners or establishment of own factory will be considered.

2.2.3 Profit and loss plan

This business targets to achieve sales of KES7.5 million in 2016, and KES101 million in 2020. The first three years after the launch of business will result in a loss due to heavy expenditure on promotion compared to its sales amount. Still, it is planned to make profit from 2019 by increasing sales amount.

Table 3: Profit and Loss Projection

(In KES)

	2016	2017	2018	2019	2020
Sales	7,484,579	38,991,366	72,415,660	92,401,305	101,641,436
Operating Profit	-4,353,084	-5,870,127	-2,206,244	3,029,930	4,395,487
Profit after tax	-4,353,084	-4,109,089	-1,544,371	2,120,951	3,076,841

(Source: Study Team)

Cash flow (CF) is planned as per below. Cash out for the business launch phase lasting until 2018 would be covered by self-investment of KES 30 million (Cash in). CF from operating activities is planned to be positive from 2019.

Table 4: Cash Flow Statement

	2016	2017	2018	2019	2020
CF from Operating Activities	-4,353,084	-4,109,089	-1,544,371	2,120,951	3,076,841
CF from Investment Activities	0	0	0	0	0
FCF	-4,353,084	-4,109,089	-1,544,371	2,120,951	3,076,841
CF from Financial Activities	10,000,000	10,000,000	10,000,000	0	0
Cash Increase/ Decrease	5,646,916	5,890,911	8,455,629	2,120,951	3,076,841
Cash at the beginning	0	5,646,916	11,537,827	19,993,456	22,114,407
Cash at the end	5,646,916	11,537,827	19,993,456	22,114,407	25,191,248
(Av. Monthl expense/ Cash at the end.)	5.7	3.1	3.2	3.0	3.1

(Source: Study Team)

2.2.4 Financial analysis

2.2.4.1 Profit model

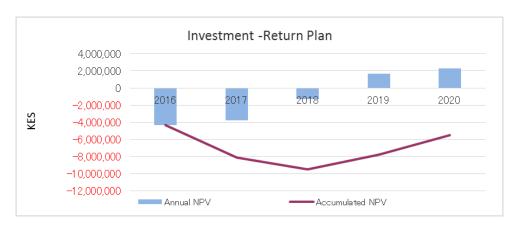
The model of this business is hi-value and small volume sales by Rohto-Mentholatum Kenya (RMKE)'s import and sales. RMKE maintains the same level of gross operating profit for items to sell. Thus, profit is created through adjustment of selling general and administrative expense. Depreciation and amortization are not occurred since no capital investment is planned.

Until 2018, in the phase which sales amount is small, expenditure including brand building such as promotion and salon training exceeds gross sales amount. From 2019, when the brand is recognized, profit is planned to be earned. Although this business does not require heavy capital investment at the beginning, heavy investment is required for brand building which requires certain time to gain return.

2.2.4.2 Investment-Return plan

This business is planned to earn positive profit starting from 2019 when annual Net Present Value (NPV) turns positive. However, the accumulated NPV in the 5th year is still negative, meaning obtaining sufficient investment-return in 5 years may be impossible.

However, Rohto defines this business as a stepping stone for the expansion of the company's entire business in Africa. Thus, Rohto targets to turn the business annually profitable, and gain investment-return from the company's entire business operation in Africa.



(Source: Study Team)

Figure 3: Investment-Return Plan²

2.2.5 Financing plan

Initial financial investment is planned to be done by Rohto's own funds. Rohto's internal decision to launch this business has been made. Thus, there will be no issue of financing. Rohto

² Cost of Capital is calculated 8%: Interest for capital sourcing in Japan + Country risk of Kenya

will execute this business by either or combination of 1) using RMKE's own funds, or 2) increasing RMKE's capital or loan. Financial investment is scheduled to be executed three times in 2016, 2017, and 2018 each.

2.3 Area of Potential Cooperation with JICA

2.3.1 Necessity of Cooperation

As explained in the previous chapters, for Rohto to shift the production to Kenya, it is fundamental to be able to procure high quality refined oil in a small lot which can be used as cosmetic products. Although the quality level can be fulfilled by existing oil refiners, the procurement in a small lot can be a challenge. Therefore, building the production system in cooperation with the research institutes such as JKUAT and KEFRI would be one option. Although there is a need to train engineers who conduct oil refining, it is difficult for Rohto itself alone to offer training while creating production system on site. Especially, it needs certain period to install equipment and train engineers on basic knowledge and handling of equipment. The collaboration with research institutes could be a way to overcome such limitation of capacity.

Another challenge for the local production is the stable procurement of soybean which is one of the main ingredients to produce cleansing oil. The bottleneck for stable procurement is weak organizational capabilities of soybean farmers. Therefore, there is a need to support the organization of the farmers and facilitate soybean production and procurement system.

2.3.2 Potential Business Cooperation with JICA

To build oil refining system in cooperation with local research institutes, it is desirable to align with JICA's training programs in Japan. The selected staff from the institutions such as JKUAT and KEFRI will be invited to Japan by JICA and will have training on oil extraction and refining skills and handling of equipment especially for cosmetic oil. After they return to Kenya, they will produce cosmetic oil under the guidance of Rohto. Since JICA has an experience on supporting JKUAT, KEFRI and other institutions as counterparts, it is expected that cooperation with these organizations can be a realistic approach.

To organize the soybean farmers, collaboration with JOCV is desired. In cooperation with JOCV who work for the improvement of farming production, detailed study on incentives of farmers, and the measures to involve in the business will be considered. Also, JOCV will offer guidance to soybean farmers on production. The oil refiners or research institutes will purchase soybeans, and Rohto will purchase refined oil.

2.4 Social Impact

The social impact this project aims to generate is to improve the low and unstable income of small scale farmers by involving them into the value chain of the proposed business. The small scale farmers will participate in the proposed business as the producer of the soybeans, which will be used as one of the raw materials of the newly developed haircare products. Soya will be used in an oil format, which most likely to be pressed by Rohto's contractors. Rohto aims to contribute improving their living in a long term by providing a stable income generating opportunity.

2.4.1 Situations of the BOPs

The production of soybeans in the Western Region of Kenya started in the late 1990s. The area became to known as "Soya Belt" especially after 2010s when Promasidor or Dominion Farms, large domestic soya processing companies, started to domestically procuring soybeans actively. Today, since the volume of soya production is lower than the demand, its buying price is comparatively higher than the global market. This is encouraging many farmers to increase the soya production in the future. However, business-wise, this high buying price is exactly the cause of impeding the soya farmers to be included in the value chain of Rohto's proposed business since it decreases the cost-effectiveness of the product.

Both producers and buyers are the cause of this high buying price of soybeans. As for producers, the cost of producing soya is relatively higher than other products, such as maize or sweet potatoes. Therefore, many of the farmers cannot take a risky step to produce soya unless the buying price is high. The high cost of production is due to the lack of soya seeds that is certified by Kenya Agricultural and Livestock Research Organization (KARLO), and the labor-intensive production style. The current buying price of soybeans in Kenya is 50Ksh/kg, which is about 10-15 Ksh/kg higher than the global price in 2015³.

As for buyers, the lack of experience in organizing small scale farmers increases the cost of procurement. In Kenya, it is very rare to sign a contract between the individual small scale farmers and buyers on the buying volume and price. In the past, there was an effort to limit farmers to sell their soybeans only to certain buyers in exchange for loaning the seeds or fertilizers⁴. However, since the concept of "contract" was not understood by the farmers, many of them just sold to whoever came the first, or simply sold at the local market⁵. As a result,

³ Index Mundi (http://www.indexmundi.com/commodities/?commodity=soybeans) [accessed on November 18, 2015]. 1.00USD = 104Ksh (November 18, 2015)

⁴ The cost of seeds and fertilizers were supposed to be deducted from the buying price of soybeans after the production.

⁵ This is known as « Side Sales ». Soya processing companies used to provide soya seeds and fertilizers based on the land size CBOs collected. However, in reality, some farmers reported a false land size in order to receive more seeds and fertilizers than they needed, and sell in the market. Buyers could not procure the planned volume but none the less imposed the cost of loaned seeds and fertilizers to individual farmers. Farmers suffered from the debt they could

many buyers wasted the cost of providing seeds and fertilizers and gave up introducing the contract system. This learning led to the situation of unpredictable production size of soybeans. In other words, every season, both producers and buyers cannot be sure on how much soybeans would be provided or purchased in the market. This skepticism for uncertainty and unforeseeable future holds many small scale farmers back from soya production.

2.4.2 Social Impact Scenario and Performance Index

In the proposed business, the social impact would be pursued by solving the challenges of involving small scale farmers, the high cost of production and organizing farmers, into the value chain as producers. In detail, the proposed business aims to 1) contribute to maintain the number of soya farmers by increasing the market value of soybeans, 2) build stable contract relationship between buyers and farmers by enhancing the organizing capacity of CBOs, and 3) promote the efficiency of soya production by applying cost reduction strategies.

In order to realize the social impact scenario, Rohto plans to conduct the above mentioned strategies one by one. As for conducting strategy 1), Rohto will utilize its rich knowledge and experience in marketing. As for the conducting strategy 2) and 3), the partnership with JICA is essential to maximize the impact. However, since the recognition of Rohto brand in Kenya's haircare product market is limited, and since the local human resource with adequate level of skills is scarce, Rohto will not start the local production immediately after this survey is completed. Rather, it will first introduce its products by importing them from existing global production sites of Rohto. The domestic procurement of soybeans will also start after the local production is realized. As a result, the social impact of conducting strategy 2) and 3) will come after it as well.

By involving small scale farmers into the value chain, the proposed business intends to enhance the productivity, income, and living standard of farmers. To evaluate the social impact, the following performance index data will be collected at the start of the business. The same index data will be collected periodically to see if the assumed scenario is realized. The baseline data in the following chart is the reference collected during this survey. The number shall be replaced by the correct baseline data when the local production of the proposed haircare product is decided.

not return. Some who did not understand the concept of loaning even got angry and did not trust the buyers after. Today, it is more typical for the CBOs to loan the seeds or fertilizers to farmers since they know the situation of individual farmers in the community better than outside buyers.

Table 5: Baseline Data of the Performance Index

	Table 5: Baseline Data of the Performance Index						
#	Performance Index	Baseline Data (or method of collecting baseline data)	Assumed Scenario				
1) (1) Contribute to maintain the number of soya farmers by increasing the market value of						
soy	beans						
1	Acceptability of the haircare product using soybeans to target consumers	Collection Method) Awareness survey to target consumers	The recognition of soybeans contribution to health and beauty increases at the midline and endline than the baseline				
2	Percentage of soya farmers among the entire farmers in the procurement area	Collection Method) Data collection from CBOs which contract with soya oil processing company	Percentage increases at the midline and endline than the baseline				
3	Number of years continuously producing soya among the procurement area	Baseline at Survey) Average 4.2 years among 20 sample farmers in Bungoma, Kakamega, and Siaya (reference)	Number of years increases at the midline and endline than the baseline				
	Build stable contract relation	onship between buyers and	farmers by enhancing the				
4	anizing capacity of CBOs Number of trained leader	Callaction Mathad) Data	Number of leader farmers				
4	farmers among the procurement area	Collection Method) Data collection from CBOs or JOCVs involving in capacity development of soya farmers	increases at the midline and endline than the baseline				
5	Percentage of soya farmers who is in a stable contract relationship with the buyers in the procurement area	Baseline at Survey) Average 35% among 20 sample farmers in Bungoma, Kakamega, and Siaya (reference)	Percentage increases at the midline and endline than the baseline				
6	Percentage of soya farmers who has sold soya to buyers in the procurement area	Baseline at Survey) Average 40% among 20 sample farmers in Bungoma, Kakamega, and Siaya (reference)	Percentage increases at the midline and endline than the baseline				
	Reduce production cost of soya	by introducing efficient produ					
7	Soya production volume per farmer in the soya procurement area	Baseline at Survey) Average 75kg per season among 20 sample farmers in Bungoma, Kakamega, and Siaya (reference)	Soya production volume increases at the midline and endline than the baseline				
8	Cost of production per total soya sales price in the soya procurement area	Baseline at Survey) About 50% in Bungoma (reference)	Percentage decreases at the midline and endline than the baseline				
9	The difference in the buying price of soya per kg between the procurement area in Kenya and global market price	Baseline at Survey) Average is 50Ksh/kg among 20 sample farmers in Bungoma, Kakamega, and Siaya. The difference with global price	The gap between the price in Kenya and global market is reduced at the midline and endline than the baseline				

		in 2015 is 15Ksh/kg (reference)			
4) S	4) Stabilization of the living among small scale farmers through soya production				
10	ي ع	Baseline at Survey) Average is 6% among 20 sample farmers in Bungoma, Kakamega, and Siaya (reference)	increases among household income at the midline and		
11	Average household income per month in the procurement area	, ,	per month increases at the midline and endline than the		