



Samarkand State University of Veterinary
Medicine, Livestock and Biotechnologies



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**"Ginger Cultivation and Increasing Egg Production
Efficiency in Laying Hens Through It" Start-up
Project**



"The Goal, Objectives, and Legal Framework of the Project"

"The Importance and Costs of Ginger Cultivation"

"Legal Framework"

"The Goal of the Project"

1. The Goal of the Start-up Project The goal of the project is to produce a competitive product for both the local market and export by cultivating high-quality ginger in Uzbekistan. At the same time, it aims to introduce a ginger infusion supplement as a feed product for laying hens. The synergistic effect of these two directions will expand the boundaries of income and profit. **Ginger Infusion (Supplement for Laying Hens):** Benefits: Due to its antioxidant, antibacterial, and anti-inflammatory properties, the ginger infusion strengthens the immunity of hens, improves digestion, reduces stress, and increases egg quality and productivity by 10-15%. Usage: It is recommended to administer 5-10 ml of the infusion per hen per day (2-3 times a week). Market Demand: An innovative supplement for farmers who aim to reduce feeding costs and increase egg production efficiency.

2. Technical and Financial Basis of the Project

A. Stages of Ginger Cultivation:

Land Selection and Preparation: Lease and Land: Renting local agricultural land (1-10 million per 10 sotik/year). **Soil Preparation:** Tilling, organic fertilizers, and drainage system (1-3 million per sotik). **Rhizome Purchase:** Quality varieties, 200–300 kg for 10 sotik, \$2–\$5 per kg (4–5 million). **Irrigation System:** Drip irrigation system (1-4 million) and, if necessary, well drilling (2-7 million). **Labor and Equipment:** 2 workers, monthly salary 1.5–3 million (24–36 million annually). **Necessary equipment rental or purchase** (2–10 million). **Fertilizers, Pesticides, Storage, and Processing:** Fertilizers and pesticides (0.5–0.9 million). **Marketing and Other Expenses:** Branding, advertising, certifications, and unforeseen expenses (2–5 million).

B. Ginger Tea Production:

Tea Preparation Process: 10–20 grams of fresh ginger root per liter of water. **Boiling and cooling process** (10–15 minutes of boiling). **Dosage and Application:** For poultry: 5–10 ml daily, administer 2–3 times a week. **Benefits of the Product:** Boosts immunity, improves digestion, reduces stress, decreases inflammation, and increases egg production efficiency by 10-15%.

C. Financial Plans:

Initial Investment: Minimal expenses for a 10-sotik ginger field can start from approximately 70 million.

3. Today, the Republic of Uzbekistan has entered a new stage in its development path. Consistent and active reforms are being carried out in all sectors. In particular, the decisions outlined in Presidential Decree No. PK-4576 of January 29, 2020, titled “Additional Measures for State Support of the Livestock Sector” and Presidential Decree No. PQ-120 of February 8, 2022, titled “Approval of the Program for the Development of the Livestock Sector and Its Sub-sectors in the Republic of Uzbekistan for 2022-2026,” have set forth key tasks. These include the development of veterinary services and all branches of livestock farming, including cattle breeding, coordinating breeding activities, and developing and implementing targeted state programs in these areas. The integration of livestock farms, breeding farms, and research institutions with science, as well as the organization of cooperation between them, needs to be carried out at the required level. This project is also planned to be implemented within the framework of the execution of the above decisions.

“Ginger Cultivation and Enhancing Egg Production Efficiency in Poultry” Startup Project



Total Cost of the Project
104,5 mln. som



Job Position
2 people



Launch Date
March 2025

1 The Goal of the Project

The main objective of the project is to produce high-quality ginger in Uzbekistan and create a competitive product for the local market and export. At the same time, the project aims to introduce ginger tea as a supplement for poultry care in the egg production sector. By leveraging the synergistic effects of these two directions, the project seeks to expand the income and profit margins.

2 Project Implementation Location

Samarkand State University of Veterinary Medicine, Livestock and Biotechnology, Educational and Experimental Farm

3 Annual Production Capacity

1.2 -2.5 tons

4 Project Implementation Duration

During a 1 year

In the agricultural sector

Ecology and Environmental Protection

Field of Application

Food Industry and Food Safety Production

Biotechnology and Pharmaceutical Sectors

Project Advantages

Ensuring Environmental Safety by Abandoning Chemical Drugs

Due to its antioxidant, antibacterial, and anti-inflammatory properties, it strengthens the immunity of poultry.

Economic Efficiency: Increasing productivity through a more affordable and natural method.

Phytopreparations improve the overall health of animals and strengthen the immune system.

Natural and environmentally friendly: improves digestion, reduces stress, and increases egg quality and productivity by 10-15%.

Required Tools and Equipment



Infusion apparatus for preparing the tea: 15 million sum



Warehouse rental for drying raw materials: 3.5 million sum



Equipment for turning the product into powder: 12 million sum



Packaging machine: 4 million sum

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Project



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Cost Estimate

Types of Costs	Amount (in million som)	Share of Total Costs in Percentage (%)
Wage Fund	24	22,97 %
Costs related to the purchase of raw materials and supplies	46	44 ,02%
Costs for the purchase of inventory, equipment, and machinery	34,5	33,01 %
Other Expenses	0	0 %
Total expenses	104,5	100%

Expected Revenues from the Project

Per liter of tea - 4000 sum

Per kilogram of powder - 150 000 sum

Total Amount = 240 mln sum

Revenue from the Project

1) Revenues in the year the project is launched

2) Total Costs– 104,5 mln sum

Revenue from Sales– 240 mln sum

Net Profit– 135.5 mln sum

Product Labels

Mega Eggs

Mega Eggs – Mahsuldorlik kaliti!



♥ Parrandalarning mahsuldorligini va kassalliklarga qarshi rezistentligini oshirish uchun!

◇ Decoctum (qaynatma) 100 ml

💡 **Qo'llash bo'yicha ma'lumot:**
Tuxum yo'nalishidagi parrandalar uchun tavsiya etiladi

Foydalanish:
◇ Parrandalarning tuxum mahsuldorligini oshirish, hazm qilishni yaxshilash, stressni kamaytirish uchun qo'llaniladigan fitopreparat (Salqin joyda saqlansin)

📍 **Manzil:** Samarqand shahar Mirzo Ulug'bek ko'chasi 77-uy
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Qo'shimcha ma'lumot uchun:



Mega Eggs

Mega Eggs – Mahsuldorlik kaliti!



♥ Parrandalarning mahsuldorligini va kassalliklarga qarshi rezistentligini oshirish uchun!

◇ Pulvis (kukun) 50 gr

💡 **Qo'llash bo'yicha ma'lumot:**
Barcha turdagi parrandalar uchun tavsiya etiladi

Foydalanish:
◇ Parrandalarning tuxum mahsuldorligini oshirish, hazm qilishni yaxshilash, stressni kamaytirish uchun qo'llaniladigan fitopreparat

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Qo'shimcha ma'lumot uchun:





Demand Creation: (Revenue Forecast) If there are 10,000 egg-laying hens in the poultry farm, it will be possible to obtain an additional 280,000 to 320,000 eggs per year. For 10,000 hens, 14,400 liters of ginger tea (57.6 million som) will be required annually. With this, the farm will have the opportunity to obtain a minimum of 280,000 additional eggs. This means an additional revenue of approximately 280 million som for the entrepreneur (assuming 1 egg is worth an average of 1,000 som). If we subtract the 57.6 million som spent on purchasing the Mega Eggs supplement, the entrepreneur can achieve an additional net profit of 222.4 million som.