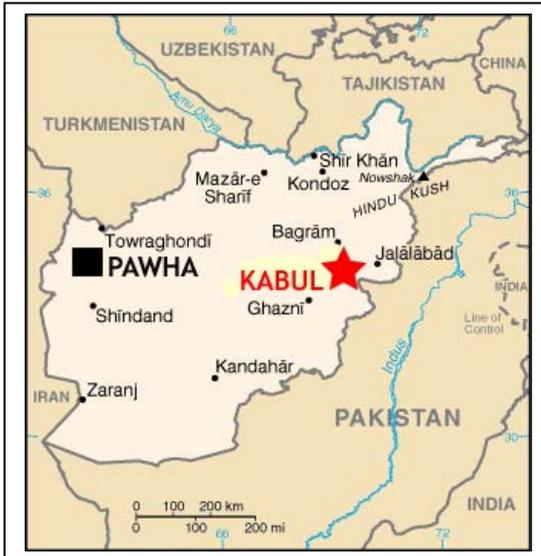


## Pahwa Poultry and Dairy Production Project

### Project Summary

<b>Subsector</b>	Agriculture
<b>Location</b>	Herat (Pahwa)
<b>Project Cost</b>	\$4.0 Million
<b>Project Type</b>	Poultry and Dairy Farm
<b>Project Executing Firm/Agency</b>	Shams Agricultural Products Ltd.
<b>Funding Agency</b>	Not Identified



## Project Outline

Twenty-five kilometers west of Herat, Shams Agricultural Products Ltd. (SAP) owns a 2,500-acre farm. This farm, called Pahwa, is surrounded by four other farms of similar sizes, which are owned by numerous small farmers. In the center of the farm, on 500 acres, there is a vineyard and orchard. The remainder of the land is used to grow various seasonal crops. Over the past 23 years the land has not received the attention required for proper management, therefore much work is necessary to return it to its previous state of productivity.

The local demand for poultry, eggs, cheese, milk, yogurt, and butter is greater than domestic production. Consequently these items are imported from Pakistan and Iran at a premium price. A new poultry, egg, and dairy production facility would put the land back into productive use and create employment for the local population, as well as decrease the dependence on imports.

The farm has enough arable land to produce a sufficient amount of grazing pasture for a herd of cattle as well as supply the food requirements for a large number of chickens.

Essential veterinary experience is also available. Water supply for the farm consists of a stream watered by rain, several river bed springs and a deep water well. The land has been flattened for agricultural purposes and is owned exclusively by SAP Ltd. The farmers are hired by contract and live in compounds built for them in the dwelling area.

## Technical Description

The project will begin with chicken production including fryers and layers and will be extended to quail and partridge after two years of successful chicken production. The sponsors intend to include a meat-producing unit after three years of dairy production.

## Project Site

The project is located in Pahwa, a farm located about 25 kilometers west of Herat. Pahwa is connected to Herat by a gravel road, which is partly public and partly owned by SAP Ltd.

## Project Status/Timeline

SAP Ltd. is currently studying the project. Required land as well as the needed capital for local currency investment and expenses is available. SAP Ltd. hopes to be able to implement the project within the next six months.

## Equipment and Services

### Poultry Breeder Farm

**A. Poultry Breeder/Parent Stock House:** A total package of equipment and facility for the environment controlled house is required, which includes:

- Ventilation system
- Cooling system with sensors
- Chain feeding system
- Nipple drinking system
- Curtain with winching system
- Feed silos
- Gas brooding system
- Egg collection system
- Waste and carcass disposal system

- Computerized control system
- Stand-by generator

**B. Layer/Broiler Parent Stock Day Old Chicks:** An expert opinion is strongly recommended for selection of the right and suitable breed.

**C. Hatchery Unit:** A total package of equipment, machinery, and facility is required, which includes:

- Hatcher
- Setter
- Egg washing machine
- Egg transfer machine
- Egg candling machine
- Egg grading machine
- Egg fumigation room/facility
- Chick grading machine
- Chick vaccination arrangement and vaccination table
- Chick grading, storage, and packaging room
- Computerized control system

**D. Feed Preparation Facility:** It is necessary to have available a small- to medium-size feed mill as required for the total parent operation for producing mash feed.

**E. Required Equipment:**

- Auto vaccination syringe
- Thermometer
- Hygrometer
- Photometer
- Debeaker
- Bird weighing scale
- Post-mortem set

**F. Veterinary Facility:**

- Full-time resident veterinary doctor cum nutritionist
- Poultry consultant for regular supervision
- Disease diagnostic laboratory
- Refrigerator/cool chain for preservation of vaccines etc.
- Full/part-time vaccinator
- Veterinary clinic

## **Dairy Farm**

**A. Farm Size:** 100 dairy cows and 5 bulls

**B. Cattle Shed:** 50 square feet per cattle head

**C. Feeding and Drinking Arrangement:**

- Manger
- Water trough
- Silage pit
- Feed mixing machine [6 kg per cattle head per day]

**D. Veterinary Equipment:** Travice, refrigerator, centrifuge machine, various sizes of syringes and needles, stethoscope, trocar and canula, castrator, full set of AI equipment for artificial insemination, delivery kit, hoof scissor, ear tag, complete surgery kit, microscope, and a milk, blood, urine, and feces testing kit with reagents and lactometer.

**E. 35 Sets of Milking Machines** [One milking machine for two cows]

**F. Dairy Processing:** Pasteurization plant, cream separator, packing machine etc.

**G. Milk and Milk Product Transport Facility:** Milk tanker [chilled van]

**H. Storage Facility:** Feed godown, cool room, store room for machinery and equipment, open shed for storage of straw, etc.

## U.S. Competitiveness

The U.S is competitive with any other supplier in terms of equipment and technical expertise, but the transportation costs may prove negative.

## Project Financing

The required land as well as needed capital to cover the local currency investment and expenses will be provided by SAP Ltd. The cost of instruments to be imported shall be covered by a grant or a soft credit being made available in the framework of the reconstruction aid to Afghanistan. SAP Ltd. is also open for any sound joint-venture proposal.

## Conclusion

This project benefits rural development by employing local farmers and substitutes the imported food products with domestic, which will bring results in a relatively short period of time.

## Key Decision Makers

<b>Organization or Company Name</b>	Shams Agricultural Products Ltd.(SAP Ltd.)
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