

## **First: livestock projects:**

### **1. Cattle corrals Al-holashtein**

Create corrals for cows Al-holashtein in the livestock section of 18,000 square meters, the project includes a section of the 12 sub-units for breeding cows of different ages during the breeding period and until the milk production of cows. It has an umbrella length of 180 m<sup>2</sup> and width 32 m<sup>2</sup> and equipped with 22 special unit for cooling Haze working with high temperatures.

The absorptive capacity of the corrals in the range of 200 dairy cows.

### **2. Veterinary care and animal health building:**

Veterinary care and animal health building, located within the units of animal production. The area is in the range of 1000 m<sup>2</sup> is divided into two parts. The first special section is for training students. On the other hand, the therapeutic special second section dealing with the isolation of infected cases. The barriers of galvanized iron numbered of 12 units, each unit 3 animals to be a total 36 cases.

### **3. Custard automated building:**

Automated Custard building was building on 800 m<sup>2</sup> on the latest engineering designs and operational energy that are commensurate with the energy Corrals located within the integrated enterprise system. In addition, it is technically the latest designs and compatible with ISO International specifications, including the building. Custard automated to the ring style and with a capacity to 25 dairy cows in the first ring and supports smart technologies in the knowledge of the cow falling through the IC card on the cow. The building includes a top lounge to watch for students and trainees, visitors and offices for technicians and rooms isolated pumps negative drag-and room for other tanks milk chilled and offices for technicians.

### **4. Dairy factory:**

This project includes the latest technologies used in the food and agro-industrial engineering, which relies on intelligent communication between them.

Which outweigh the technically newest specialized in the latest local and international companies in the dairy and derivatives areas of factories. The factory consists of the production lines of milk, yogurt, butter, yogurt, cold rooms for preservation, areas for washing and sterilization and hall isolated to greet students and visitors also contains equipped with the latest technologies to monitor production lines and quality lab.

The estimated factory capacity and energy to work approximately 10,000 liters / day.

#### **5. Umbrella of feeding and rearing calves:**

The work of the canopy and the structure of iron from the Higher kind of resistance and galvanized-of-life to increase and thermally insulated roof and then to breed calves, wheels until the age of 3-5 months and on the area of 1000 m<sup>2</sup> and images attached, showed railings galvanized isolated, estimated a capacity in the range of 48 hastily. In addition to the main task of raising calves, the student training for AI feeding programs for cows is taking place each disciplines in the faculties of Agricultural and food Sciences and the College of Veterinary Medicine and Animal Resources for graduate students and undergraduates.

#### **6. Processing and storage of the feed zone:**

Established iron building on 1350 m<sup>2</sup> in order to equip the diets of feeding and mixing of soy, corn and green fodder grain in preparation for use in direct nutrition.

#### **7. Development and modernization of corrals units sheep and goats:**

The development and modernization of corrals units for sheep, goats and making umbrellas and their own barriers and the creation of specialized milking sheep as part of a scientific and typical framework and in cooperation with the Faculties of Agricultural and Food Sciences and the College of Veterinary Medicine and Animal Resources. So as to provide an opportunity for various disciplines and thus create diverse

opportunities for the various specialty and scientific researchers, students to take advantage of these new technologies.

### **8. Wildlife area**

Create life area innate to raise some types of animals endangered species such as the Arabian oryx and sand gazelles and goats dwarf, reaching the selected area 21300 m<sup>2</sup>. A railing around was done around the selected area perimeter of 600 linear meters and doing three separate umbrellas for breeding and isolation with area of 15 m × 20 m.

### **9. Holocaust and the entrances to sterilization:**

The area is equipped to dispose of dead animals and birds on 100 m<sup>2</sup> and equipped with incinerators operate the ignition system of fuel and electricity. It consists of two units the first unit to get rid of waste and medical supplies and the other unity for dead animals.

### **10. Equipment and mechanisms of nutrition:**

It has been provided with modern cattle corrals with 2 mixers and dispensers of green fodder, which aims to introduce the use of agricultural mechanization and modern technology systems in their own feeding cows as part of an integrated part of the project and the diversification of the sources of resources and powers.