

1- Cows Unit:

It includes many of the utilities that serve the student training and scientific research, where the unit has been set up to develop many new projects include the following facilities:

a. Cows corrals:

It is comprised of 18,000 square meters Holstein cows' sheds in the livestock section. The project includes 12 sub-units for breeding different ages cows covering the stages from breeding to milk production stage. It is covered by umbrellas length of 180 m² and width 32 m² and equipped with 22 special unit for cooling Haze working when temperature rises. The corrals' capacity is in the range of 200 dairy cows.

Milking parlor:

Milking parlor building occupies 800 m². It has a modern design with an operational capacity that matches the production of the corrals. It is part of the University integrated projects which meets the International Specifications Organization (ISO) specifications. The building is designed according to the ring style, with a capacity to 25 cows at once. It adopts smart technologies to identify each cow by its IC card. The building contains isolated rooms for the negative suction pumps and chilled milk tanks. It also contains a top watching lounge for students, trainees, visitors in addition to technicians' offices.

b. Dairy factory:

The factory was established using the latest intelligent communication technologies used in the food and agro-industrial engineering that is far more advanced than commercial dairy factories. The factory consists of milk, fermented milk, butter, yogurt production lines in addition to cold storage rooms, washing and sterilization areas. The factory contains also an equipped laboratory for monitoring products' quality and production lines. There is an isolated hall to accommodate students and visitors. The estimated plant work capacity is approximately 6000 liters / day.

c. Veterinarian Care and Animal Health Building:

Veterinarian care and animal health building was established as part of cows farm facilities. Its area is 1000 m² that is divided into two sections; the first is for therapeutic training of students, while the second section used for isolation of infected cases in the 12 units barriers made of galvanized iron. Each unit can adopt 3 animals for a total capacity 36 cases.

d. Feeding and rearing calves umbrella:

A galvanized frame umbrella with a thermally isolated roof was built to raise calves until the age of 3-5 months. Its area is 1000 m² with an estimated capacity in the range of 48 calves. In addition to its main use, this facility allows for graduate and undergraduate students training on feeding programs for cows. Such training is provided to students from different disciplines of agriculture, food sciences, and veterinary medicine.

e. Feed processing and storage zone:

It is an iron building on 1350 m² set to prepare feed mixtures made with soy, corn, and green fodder for direct feeding of the animals.

f. Feeding equipment and machinery:

To promote agricultural mechanization and modern technology systems for feeding cows within integrated projects, and diversification of resources, the new cow feeding lots is equipped with 2 green fodder mixers and dispensers.

Preventive immunizations carried out by the unit during the year:

1. Foot and Mouth Disease (FMD)
2. Intestinal and blood poisoning
3. Booster dose for poisoning intestinal
4. Booster dose for blood poisoning
5. Booster dose of FMD