

SIR C R REDDY COLLEGE FOR WOMEN

(Affiliated to Adikavi Nannaya University, Rajamahendravaram)

Vatluru(post),Pedapadu mandal, EluruDist(AP)



DEPARTMENT OF PHYSICS

(SIR C.V RAMAN CLUB)

FIELD TRIP TO VETERINARY HOSPITAL

The Department of Physics, in association with Unnat Bharat Abhiyan and IQAC organized a field trip to the Veterinary hospital at the Government Veterinary Hospital at Vatluru village on 21/10/2024 from 3pm. to 4:30 p.m. M Jaya Lakshmi Devi, B Durga Prasanna, Lecturers, Department of Physics, & all III BSc Physics students of our college attended the trip.

Y Ravi Kumar, a Veterinary livestock officer, welcomed us.

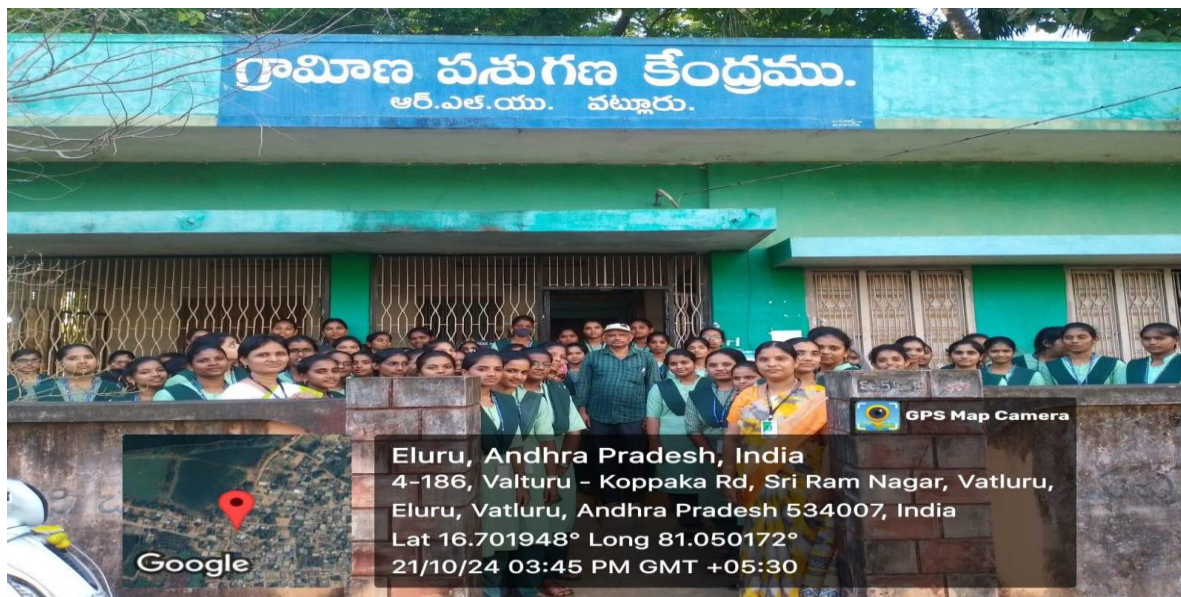
Y Ravi Kumar briefly explained about Liquid nitrogen, which is the most commonly used element in cryogenics used for specialty chilling and freezing applications. MRC's laboratory liquid nitrogen containers are suited for storage and transportation and have a wide range of capacities. The vessels are vacuum-jacketed tanks for maintaining low temperature storage of biological material, they are designed to safely contain liquid nitrogen as the low temperature agent. Dewars accommodate racks for small sample vials. The liquid nitrogen container should be placed in a well-ventilated and cool place to avoid direct sunlight. Do not place the container in a rainy or humid environment to avoid frost and ice on the neck tube, cover plug, and other accessories.

He also explained about how the sperm of male animals is stored in Liquid Nitrogen containers and how it is injected into female animals. He explained the precautions to be taken while using LN2 because it can steal oxygen from the air, causing asphyxiation (suffocation), causing a person to become unconscious and possibly die. Liquid nitrogen has the scary ability to expand by 700 times in volume when it evaporates and sperm. Students carefully observed and learned the function of the LN2 container and the properties of LN2. Liquid nitrogen has also been used as a method for cooling concrete for over Liquid nitrogen is inert, colorless, odorless, non corrosive, non-flammable, and extremely cold. Nitrogen makes up the major portion of the

atmosphere (78.03% by volume, 75.5% by weight). Nitrogen is inert and will not support combustion; however, it is not life supporting. twenty years. Liquid nitrogen (LN) is an inert cryogenic fluid with a temperature of $-196\text{ }^{\circ}\text{C}$ [$-320\text{ }^{\circ}\text{F}$].



Y Ravi Kumar explained how the sperm of male animals is stored in Liquid Nitrogen container



All III B.Sc Physics students attended the Field trip