**DEPARTMENT OF AQUACULTURE – M E S ASAMBI COLLEGE**

**INDUSTRIAL VISIT 2020- NATIONAL FISH SEED PRODUCTION FARM MALAMPUZHA ON 16TH AND 17TH OF AUGUST 2022**

Industrial visits are a part of curriculum of B.Sc. Aquaculture. Two day training on fresh water fish breeding was given to Final Year students of B.Sc. Aquaculture on 16th and 17th of August 2022. 45 students participated and they were accompanied by Dr. Kesavan K, Associate Professor and Head of the Department and Dr. Dhanya P R, Assistant Professor and Class Tutor. The team started the journey in a rented tempo traveler at 7.30 AM on 16th of August and reported in the National Fish Seed Farm, Malampuzha Palakkad at 11 AM.

Smt. Myna, Asst. Director in the Hatchery was the technical staff in charge to guide the students for the 2 day training. He gave an introductory class on Carp Induced Breeding. Then the students were given a detailed demo about brooder fish capture and sex identification. The farm includes stocking ponds, rearing ponds, nursery ponds, breeding tank, incubation tank etc. First they entered into the incubation pool to observe the hatched young ones of rohu.

Rainy season (monsoon period) is the suitable time for brood collection and on the evening workers came with dragnet for the brood collection, sum of our friends also participate in it. Seven pairs of catla and four pair of cyprinus are collected and transferred to the breeding tank .The breeding tank is circular in shape and provided with water circulation and mock rain to the tank.

After 7 pm on the day of arrival the students were able to involve in hatchery activities including brooder selection and administration of hormone injection. Smt, Myna and workers showed them process of induced breeding . Late evening is the suitable time for injection. WOVA-FH was the synthetic hormone used for induced breeding in Malampuzha farm. The dosage of the hormone was 0.1 ml/kg. body weight of fish. Only one injection was given to both male and female. They inject the hormone in the dorsal side of caudal peduncle. Few net pieces are placed in the tank. The net where provided as egg collectors. The activities finished by 7.30 pm and we came back our room by 7.45 pm

The student reported at the hatchery at: 30 AM on 17th August and took part in egg counting, fertilization rate estimation and transfer of the eggs to pre-set incubators. Smt. Myna taught them to find the fertilized and non fertilized egg count. After transferring the eggs the flow rate was adjusted .The whole process was done before 11 AM.

After depositing the eggs in incubators, the students were taken to see the feed mill in the hatchery and visited all ponds to study the lay out, and design of the hatchery. A brief discussioin on feed preparation and feed dispersal in ponds and tanks was held.

The training schedule came to a conclusion at 12.30 PM. After having a group photo session and formal vote of thanks to the hatchery staff the team started the return journey to the college by 6.30 PM on 17th August 2022.

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Dr. Kesavan K (Head of the Department)