

# FATIMA MATA NATIONAL COLLEGE

AUTONOMOUS

(Reaccredited with 'A' Grade by NAAC)

Affiliated to University of Kerala



## 7.1.4 Additional Document

**IQAC** INTERNAL QUALITY ASSURANCE CELL

#### **7.1.4 Water Conservation Strategies @ FATIMA**

The Green Policy and Green Protocol followed by FATIMA is practised at all levels of its activities. Our policies of environment consciousness and sustainable development are systematically followed. It is only appropriate that Fatima takes extra care to see to it that Water, the most valuable of natural resources, is judiciously used and stored for future use.

The perennial pond in the campus is the natural water source (Fig. 1). It acts as a natural water reservoir, as the surface run off water flows into it. It is further recharged by means of rain water harvested from the roof of Bishop Ferdinand Maria Ossi Block using PVC pipes (Fig. 2). Thus the water table in the campus is maintained at a steady level. Thus the groundwater level is also kept maintained all year long. So even during Summer seasons, Fatima has steady water supply, when the neighbouring areas suffer from drought and water shortage. In future, we plan to start fresh water fish culture in the pond, in collaboration with Fish Farmers' Development Authority (FFDA), a wing of Kerala State Fisheries Department. Preliminary discussions are going on in this aspect. It also helps in conducting Primary Productivity of aquatic Ecosystem, which serves as one of the major themes/topics in the UG and PG practical courses (Figs 3-5) in Zoology. The pond water is also used for studying the nature and diversity of phytoplanktons. The pond is cleaned regularly so that the depth is maintained.

Another means of rain water harvesting is by maintaining rainwater recharge pits (open well recharge) around the well, which helps water infiltration into the well (Fig. 6). The well in the Quadrangle is also recharged by means of rain harvested from the roof of the Quadrangle Block. The rain water is pooled through PVC pipes into a rain water pit. This helps to replenish the groundwater by recharging the underground well.

**Fig. 1: Natural Pond in the Campus**



**Fig. 2: Rain Water Harvesting System in the Campus**



**Fig. 3: Aquatic Ecosystem Research Activities in the Campus Pond**



**Fig. 4: Aquatic Ecosystem Research Activities in the Campus Pond**



**Fig. 5: Aquatic Ecosystem Research Activities in the Campus Pond**



**Fig. 6 Rain Water Recharging**



Type	Degree	DMS
Latitude	8.8852828	8°53'7" N
Longitude	76.6028593	76°36'10" E

22 May 2020, 14:29 PM