

APPLICATION NOTES

Split Core CT for Fish Pond Equipments



Introduction:

Fish farming or pisciculture is a process of growing fish and selling it or using its products for domestic or commercial use. Commercial fish farming has already been established as a lucrative business venture all over the world. However, healthy fish production requires intensive care, and to ensure a stable and healthy production environment inside the fishpond is a challenging task. It includes proper maintenance of pH, temperature and oxygen level of water. For this various motors, pumps, aerators and other electrical equipments are used. Monitoring of all electrical parameters of these mentioned equipments is very essential. With the help of this SMS, Alarm notifications are sent to the customers in case of occurrence faults or Events as per their requirements. This is done with the help of a cloud-based Data monitoring System by using GSM.

The Problem:

Electrical equipments used for fish farming are very critical equipments and these equipments are mostly installed in water or in muddy areas. In this case , shutdown time required for the maintenance of these equipments should be as minimum as possible because if it is high then it will directly impact the health of fishes especially those which are sensitive towards pH and temperature. So, the installation of the standard CTs is not possible as it will lead to increased shutdown time while doing the maintenance. Due to all above facts ,the customer was in need of a time-saving and cost-effective CT.

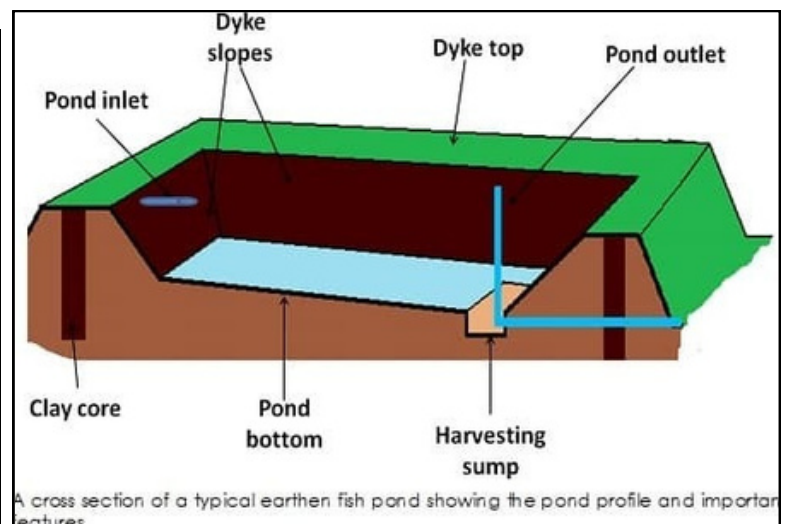
Our Solution:

For the above problem, Rishabh has offered Rish Split Core CT solution to the customer. Split-core CT takes less than 1 minute in comparison with conventional CTs which takes at least 15 minutes for the installation. Split Core CT comes with various mounting options like Busbar mounting, Wall mounting which helps customers to mount it on any type of conductor i.e Cable, Busbar.

So, the Split Core CTs are installed to measure the current flowing through the Electrical Equipment. The output of the Split Core is given to the multifunction meters and from there to PLC units which monitor multiple but critical parameters of the electrical equipments.

The customer initially used the HUABANG, a Chinese make Split Core CT. But they were having some quality and delivery issues with those CTs. This brought us the opportunity to convert the customer from Chinese make to Indian make. Clint was very happy with our product's USP, Features and design. After thorough inspection and testing, they have decided to go with Rishabh Make Split Core CT.

The below image shows the Fish Pond and its working:



The Benefits:

- Wide range of system current Ratings
- Various mounting options like Bus bar mounting, Wall mounting
- Hinged terminal cover
- Terminal with self lifting screw with dual connection facility giving access from both sides of transformers
- Terminal sealing provision
- Glass field polycarbonate, flame retardant grades classified UL94V-0

Contact:

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PROVEN BY PERFORMANCE.”**

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