Quarter Report DEC-April 2026.

Rufford I.D: **45987-1**

The Title of Your Project**: Promoting Community-Led Afforestation for Soil Protection and Conservation of Oreochromis esculentus in Hombolo Dam, Dodoma, Tanzania**.

1.0 In collaboration with the Hombolo Dam community including students, fishers, farmers, and other village members the project team has successfully planted and is monitoring 613 trees around the dam. Through outreach and community engagement, two species were identified as the most suitable for both local preferences and the ecological conditions of the area: *Syzygium cumini* and *Trichilia emetica* (Figure 01).

Figure 01: The two planted tree species *Trichilia emetica* (left) and *Syzygium cumini* (right). Photo by the project team, 2026.

2.0 The project continued to monitor fish population dynamics throughout the wet season and compared the data with the dry season, focusing on variations in catch composition, size, weight and gear types used in such season (Figure 02 & 03).

Figure 02: Ongoing monitoring of fish population dynamics during the wet season. Photo by the project team, 2026.

Figure 03: Type of gears used for fish catch at Hombolo. hoto by the project team.

3.0The project team, in collaboration with the fisheries committee, has continued to monitor key water quality parameters essential for the survival and growth of *Oreochromis esculentus*. These include dissolved oxygen (DO), pH, turbidity, temperature, electrical conductivity, and total dissolved solids (Figure 04).

Figure 04: Monitoring of key water quality parameters essential for the survival and growth of *Oreochromis esculentus.* Photo by the project team, 2026