ESTIMATION OF WASTE WATER & SOLID WASTE GENERATED WITHIN THE GALLE FISHERY HARBOR

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Fishery harbor is a complex system of activities which are potential waste generators and thus considered as a hot spot of coastal pollution. Pollution of harbor waters due to dumping of untreated sewage in contiguous waters and the harbor basin is often the most common causes for seafood-related diseases and epidemics. Harbor water quality is heavily influenced by human activity not only within the harbor complex but also in the surrounding environment as well. As the fishery harbor and its contiguous waters are part of the coastal zone, pollution of the harbor directly affects the coastal zone and vice versa.

In present study, waste audit was carried out to quantify the amounts and types of waste being generated. Main objective of the study was to estimate the waste water and solid waste generated within the Galle fishery harbor. Survey was carried out one month period & data were collected on a daily basis. Different types of waste in the harbor as waste oil , noxious liquid substances, black and Gray water, noxious solid part of fish, noxious solid polythene ,noxious solid plastic, noxious solid papers, biodegradable substance, recyclable and reusable waste, fiber glass , Styrofoam, timber & other composite, rubber , other garbage were estimated.

Result revealed that fiber glass was collected in large quantities (93%) followed by fish waste parts (3.48%) & Styrofoam (3.40%) and were the most prominent solid waste types. Large amount of Styrofoam, polythene, plastic, timber, and fiber glass were observed dumping daily. Pet bottles, polythene and bio degradable substances were not being fluctuated highly. Among the liquid waste, noxious liquid volume was highest (68.05%) while grey water was the lowest (12.41%).

Key words: *Fishery harbor, Waste audit, Waste type , noxious substance*