

Project Title	Modification of MTS clay water filter to suppress harmful bacteria activity and other contaminants including fluoride and heavy metals in drinking water
Description	<p><u>TG Project No-21/191-Initiated in 2021/04/06</u></p> <p>Chronic kidney disease of unknown etiology (CKDu) has been mostly found in agricultural areas in the North Central Province (NCP) of Sri Lanka and it has spread significantly to the other areas such as Northern, Northwestern, Eastern, Uva, and Central Provinces. We have developed a clay filter for removal of fluoride ions from drinking water at first stage, and next we improved the clay filter for removal of heavy metals such as arsenic and cadmium from water and transferred the technology to Red cross organization. Finally we addressed the hardness in water using red clay. Since the bacteria contamination in water is also a suspected cause for CKDu, we intend to further improve the filter for removal of microorganism as well. Therefore the present work aims at addressing one more risk factor for CKDu, namely, harmful bacterial contamination in drinking water.</p>
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Budget	Rs. 1,055,000