Kunnamkulam Municipality

Kunnamkulam municipality located in Thrissur district has 37 wards with a total population of 54,071. Kunnamkulam is an old commercial town, with an ancient history, famous for its printing and book binding industry. The State Highway No 69 which connects Thrissur and Kuttipuram (NH 544 and NH 66) passes through Kunnamkulam. Also, the two major district roads are emerging from Kunnamkulam, one of them going to Guruvayoor, Chavakkad meeting at Kochi-Ponnani NH-66 and the other road goes to Wadakkancherry meeting at Thrissur-Shoranur Road. All these roads meet at the heart of Kunnamkulam town namely the 'Parayil Angadi (Parayil Bazar) Centre'

Waste Management System of Kunnamkulam Municipality

Bio-waste management

- For the last one-year Kunnamkulam Municipality has been implementing a new system of Biowaste management which is economical as well as eco-friendly.
- It successfully integrates different agencies like IRTC (Integrated Rural Technology Centre), Kudumbasree Self Help Groups, and the concerned waste producers.
- Bio wastes from the residential sector are being treated at sources using bio-bins supplied by the Municipality
- Around 3000 bio-bins already supplied by the ULB in whole area. Green army volunteers help people maintain these bio-bins in the proper way.
- Under the Kunnamkulam ULB, there are around 13156 households who follow source level treatment of bio waste and are helped by the volunteers
- The segregated bio-wastes from the city is collected and transported to the centralized biowaste plant of the Municipality situated in a place called 'Kurukkanpara'.
- These bio wastes weighing around 3 tons per day is treated and converted into bio manure.
- Mechanization and the required infrastructure of the plant are funded by the decentralised plan of the LSGI and the labour is supplied by a Kudumbasree micro entrepreneur group called 'Samatha'. They produce bio manure from the city bio wastes and sell the manure to the local farmers in and around.
- Technical support is given by IRTC, a non-profit organization registered in Kerala empaneled for implementing waste management systems across the state.



Green Park, Kurukkanpara, Kunnamkulam Municipality (Solid waste management plant) operated and maintained by SHG, Samatha Green



Process Diagram of Kunnamkulam-Waste Management Plant:

Waste Collection By Kudumbasree Groups Segregation Of Non Degradable Wastes (Manually) Size Reduction using Waste Shreding Machine Mixing of EM enriched Coir pith ennoculum with substrate 4 Setting of EM mixed substrate in Windrow shape in the 5 Yard Turning Out of Half decomposed Substrate in an interval of 1 week and watering it if necessary. 6 Final Compost in 30 Days 7 **Sieving and Packing of compost (SAMATA)** 8

Organic Waste

<u>Processing – Flow Diagram</u>



Kudumbasree Sanitation Group of ULB

Kunnamkulam is an old merchant town with congested bunch of shop buildings and pathways. The waste disposal at source is not possible here in town in many cases as there is no enough space available in the town area. Women sanitation groups collects segregated waste from shops and hotels and delivers to the Kurukkanpara SWM plant. There are two groups under this ULB, namely Sevanasree and Aiswaryasree of total 10 members. Each group have their own vehicles for waste collection purchased through SJSRY component. A rate of Rs. 3/- per kilogram is fixed by the ULB for bio degradable waste collection from the shops.



Non-Bio degradable Waste Management

Kunnamkulam Municipality consists of 37 wards in which average number of households is



income generation activity for these ULB members.

350 to 400. Each municipal ward has two members of Harithakarma Sena who are engaged in household non-bio degradable waste collection. Waste collection is conducted once in a month by these members of ULB collecting a user fee of Rs.60/- per month. Along with the management of non-bio degradable waste, women micro self-entrepreneurship is also promoted here. This has become an



Plastic Collection Team of ULB

As house hold plastic collection is done by the Haritha karma sena, non-bio degradable wastes from the commercial buildings of the town are collected by a separate plastic collection team. Five Kudumbasree members are engaged in this activity. Four times in a month these members collects cleaned plastic wastes from the shops and hotels



Green Protocol Activities by the ULB

As per the new plastic rules Kunnamkulam Municipality also take initiatives for the reduction, reuse, and recycling of the non-bio degradable wastes. Green protocol campaign is effectively conducted here through the Kudumbasree networks. Women micro



ME group in paper bag making from Kurukkanpara

entrepreneur groups were formed to spread the awareness and also to insist people for the non-usage of disposable materials for the various household functions. This makes wastefree functions and festivals as well as a livelihood to those who are engaged in the green protocol activities. Kunnamkulam ULB have three such micro entrepreneur groups involving in such activities. One group deal with the rental activity of plates, glasses and ice-cream bowls for the functions. Other group is engaged in making linen reusable bags. And yet another group is engaged in the production of paper bags. The objective of these activities and the ME groups is the convergence of green protocol and livelihood of the families involved.

Ecological conservation activities of the ULB

Kudumbasree members also actively participate in the conservation of ponds, natural drains etc. ULB has cleaned three ponds and a major canal in the last year by the members of Kudumbasree. We recognize, as a women collective, we have a crucial role in keeping the environment in its clean condition so as to ensure a good living condition to the generations next.





Hon. Finance Minister Dr. Thomas Isaac visits Kurukkanpara SWM Plant



Kurukkanpara plant visited by the Hon. Finance Commission of India



Garbage vulnerble point converted into cultivation land



Street sweeping done by the sanitation workers of Kunnamkulam

്രാകുളത്ത് **'പിഴയടച്ച് മുട്ടാറിയിക്കൂ,** സമ്മാനം നേടൂ

മാലിന്യ കേന്ദ്രം കൃഷിയിടമായി; വാഴകൃഷിയിൽ വിജയത്തിളക്കം

കാൻപാലത്തിൽ റ് എ.ബ്. സ്ഥാർകുമാനിൽവ് ശ ഫ്മാന്ന മർണ്ട ഒരു മൂന്നുവായം വർത്തിലെ ഇന്നുവായ ആസ്ലാരണ വിള

ക്രാനംകൂളം ടെവേമാലിനു സംസ്കരണത്തിന് മാതൃകയായ കുന്നംകൂളം ഇനിമുതൽ അ ലൈ മാലിനു സംസ്കരണ അനും മാതൃകയാകുന്നു. കു നന്തകുളം സരസേരത്തുന്നു. കു നേരുക്കാരുന്നതിന്റെ മാഗമായി കുറുക്കൻപാറ ട്രഞ്ചില് ഗ്രൗ സ്വാര് കാരായ പ്രവേശങ്ങളിൽ നിന്നു കുടുംബംഗിവരിച്ചു. ഗ്രസംഗമായത്തോടെ ചെറിയ കാന്ന പ്രസ്റ്റിക് മാലിവും ശ്രസംഗമായത്തോടെ ചെറിയ ക്ഷേത്രങ്ങളാക്കി മാറ്റും ഗ്രസംഗമായത്തോടെ ചെറിയ ക്ഷേത്രങ്ങളാക്കി മാറ്റും സ്റ്റിക് മാലിന്യത്തെ റിലൈ ക്ഷ്യത്തെ വിവേശങ്ങളിൽ നായുക്കാര് പ്രവേശങ്ങളുടെ മാറ്റും ക്ഷേത്രത്തെ റിലൈ ക്ഷ്യത്തെ വിവേശങ്ങളിൽ നായുക്കാര്യം പര്യമായിനു സംസ്കര നായുമായിനുത്തെ റിലൈ ക്ഷ്യമായിന്റെ വരുക്കാര്യം വരുക്കാര്യം പര്യമായിനുത്തെ നാൽകു

പോറ ട്രഞ്ഞിംഗ് ഗ്രൗണ്ടിൽ സ്ഥാപിച്ച പ്ലാസ്റ്റി

ഖരമാലിനു സംസ്കരണ കേമ്പ്രത്തിനോടു ചേർന്നാണ് പ്ലാസ്റ്റിക് സംസ്കരണ യൂണി

വർ പെത പരിചിച്ച

Focus on source management of biowaste SPECIAL CORRESPONDENT

The Kunnamkulam Municipality is planning to imple-ment a 'Zero waste project' to clean the town. With the slogan 'Our

waste Our Responsibility', the project envisages treating the waste generated by markets, hotels and trading institutions. Source manage ment of biowaste is the focus

The Health Department under the leadership of municipal secretary K.K. Manoj will undertake the

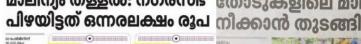
mission. Waste dumped in various parts of the town is already being removed as part of the project. Fish and meat mar-kets and the drainage canals beside them are also being

have been distributed for strengthened at areas like Arthat, Bhavana Road, Thu-rakkulam Market Road and Yesudas Road where waste is dumped regularly. The municipality will im-

pose between ₹500 and ₹25,000 for dumping waste in public places. The viola-tors will be made to take

back the dumped waste.
The municipality will cancel the licence of institutions

മാലിന്യം തള്ളൽ: നഗരസഭ തോടുകളിലെ മാലിന്യം









ഗ്രീൻ പാർക്കിന് അംഗീകാരം