

## **Towards Zero waste campus**

### **Mini Paper Recycling Unit**

Department of Botany and Microbiology, Lady Doak College, Madurai

- HIGHER PAPER RECOVERY LEADS TO ENHANCED GREENERY.
- FOR ONE TON OF VIRGIN PAPER PREPARATION 17 TREES ARE CUT AND 1500L OF OIL IS CONSUMED.
- RECYCLING OF ONE TON WASTE PAPER SAVES 17 FULL GROWN TREES, 16000L OF WATER, 4100 KILOWATT OF POWER AND REDUCES AIR POLLUTION.

Mini paper recycling unit was established on 26-02-2009 with the aim to create awareness among students to

- reduce the use of paper
- recycle paper that saves our natural resources and energy
- stress 3R principle Reduce, Reuse and Recycle
- make the college campus sustainable, eco-friendly and zero waste zone.

#### **About the Unit:**

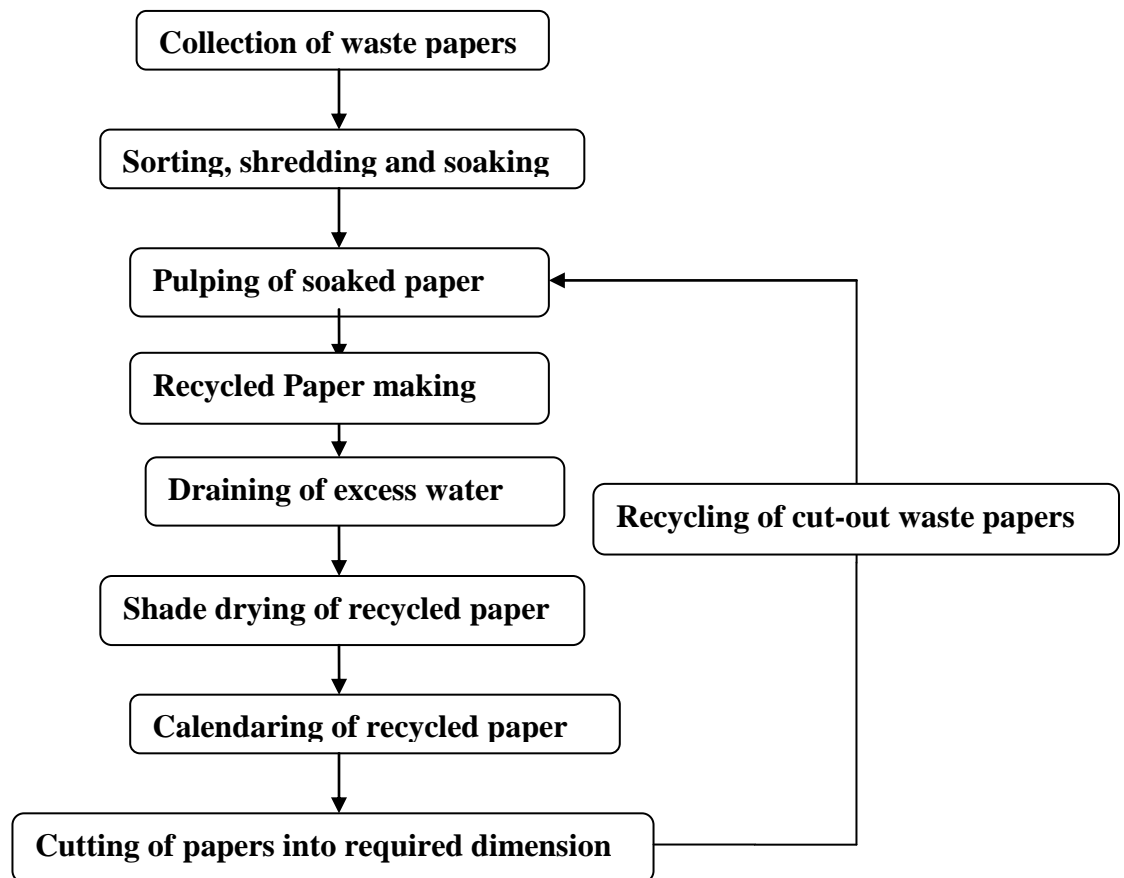
It was started with the seed money received from United Board for Christian Higher Education to offer service learning programme on “Waste paper management”. Later it was gradually equipped to recycle waste paper collected from departments, offices and centers of Lady Doak Campus with the financial support received from Management, Lady Doak College, Madurai, University Grants Commission (UGC), Department of Science and Technology (DST), Government of India and Tamil Nadu State Council for Science and Technology (TNSCST).

#### **Facilities Available**

- Hydra-pulper: for pulping of waste papers
- Beater machine: for making paper pulp with the addition of agro-waste and alternate fibers
- Uni-Vat: for making recycled paper sheets

- Screw press: to drain-off excess water from pulp
- Calendaring machine: smoothening of the paper after drying
- Automated cutting machine: cutting recycled paper into different dimensions
- Plate making machine: making paper plates
- File making machine: to fold files and folding

### Paper Recycling Process



### Products from Recycled Paper

- Paper bags, files, folders, greeting cards, envelopes, courier covers, CD pouches, boxes etc.



**Hydrapulper-Pulping**



**Beater Machine-Pulping**



**Uni-Vat Machine- for making recycled paper sheets**



**Screw Press**



**Calendering Machine**



**Automated Cutting Machine**



**File Making Machine**



**Products Made**