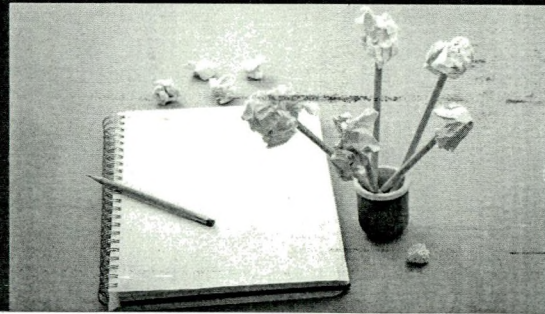


Paper once used is often discarded as waste. The word "waste" refers to something that is "no longer serving a purpose", something "without value". The amount of post consumer paper-a major solid waste - is gradually increasing and its treatment and disposal has become a major social and environmental problem. Proper processing and recycling of waste can greatly reduce environmental pollution. Recycling is environmentally favorable for a variety of reasons. First, it conserves material resources and second, it conserves fuel. Resources saved per ton of paper recycling are 17 trees, 275 pounds of sulphur, 350 lbs of limestone, 900 lbs of steam, 60,000 gal of water, 225 kwh and 3.3 cubic yards of land fill space. So, recycling of waste paper becomes an absolute necessity not only to reduce scarcity of raw materials but also to curtail environmental pollution. Micro study to repulp, recycle and recover paper from post consumer paper by installing a paper plant had proved successful. An awareness generation effort was also undertaken to induct the knowledge through method demonstration and print media. The book delineates the procedure and satisfaction of objectives.

Paper Recycling



Visalakshi Rajeswari
Gayathri Duraisamy

Resource recovery and value addition of waste paper

Resource recovery of a wasted resource - "Paper"



Visalakshi Rajeswari

Dr. Visalakshi Rajeswari, S. working since 1979, is at present a Professor in Resource Management, in Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore. Has published many articles in Journals of National and International repute and contributed in edited books. Has guided seven M. Phis and a Ph. D scholar.



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INTRODUCTION

*“The earth has enough resources to meet the needs of people
but will never have enough to serve their greed.”*

- Mahatma Gandhi

Our earth is one of the most beautiful planets in this universe. This earth is occupied by water - 70.9 % - and the rest as land area. Human beings are considered to be the most intelligent living things on this earth and that is why it becomes their duty not only to respect but also to protect this environment and surroundings provided by nature for their own happiness and a healthier tomorrow (<http://www.paperboutique.net/why-handmade.htm>).

Paper, one of the important economic indicators of a country which is both produced and consumed in mind boggling quantities. Thoughts of paper, brings only books, newspapers and their laser printers in one's vision, while boxboard, corrugated and packaging are forgotten (<http://www.worldchanging.com/tools/modelsandideas/greenfuture/bananapaper.htm>). It is the basic material used for written communication and the dissemination of information. In addition, paper and paper board provide materials for hundreds of other uses, such as wrapping, packaging, toweling, insulation and photography (Encyclopaedia Britannica, 2007). The amount of paper that passes through one's hands each day is massive, let alone the amount of paper that is daily thrown away. Paper is a bit like oxygen - it's all around but almost nobody notices.

Paper got its name from papyrus, or paper rush paper, as known today. It was first found in China in 150 BC- often cited as the year in which paper was invented. Later, it moved on to Vietnam, Tibet, Korea and Japan where, on special occasions, they make handmade paper even today (An Environmental Education Program of the Prague Post Endowment Fund, 2003). Paper is a substance

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