

BATCH NO: 01

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| **PROJECT TITLE** | | ORGANIC ACID PULPING USING NUT GRASS AS RAW MATERIAL | |
| **SLNO** | **REG.NO** | **NAME** | **GUIDE** |
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SYNOPSIS

The main aim of any pulping procedure consists of a selective extraction of lignin from lignocellulosic like wood and non wood materials without degradation of cellulose. The principle drawback of any conventional pulping process of lignocellulosic is that it is not possible to separate lignin and hemicelluloses without alteration of their chemical structure. Therefore, the by-products are unable to be utilized as the raw material of chemicals.

They are used as process fuels with low heat value added for the recovery of pulping reagents in alkaline pulping processes, and in general are discarded together with waste liquors in the sulphite process ,causing severe environmental problems. Therefore, the demand for environmentally sound chemical pulping industries has increased interest in alternative pulping processes.

Our project focuses mitigating environmental concerns associated with paper industries by developing an innovative method for pulping process of agricultural residues by usage of organic acid with soda pulping process.



**Chemical characterization**

conducted a thorough analysis of pulp & paper industry , understand the composition & concentration of sodium sulphide [ Na2S] , which a toxic substance in Kraft process , identifying the most prevalent forms and their potential environmental impact.

**Technological Innovation**

Explore and develop the advanced techniques for reducing the dosage of chemicals , in order to maintain the carbohydrate stabilization from degradation / peeling - off reaction. Organic acids are very effective at preventing the peeling - off reaction in order to obtain most of the fibres.

**CERTIFICATE** : This Project Has Not Been Done Previous Years

# SIGNATURE OF GUIDE SIGNATURE OF HOD SIGNATURE OF PRINCIPAL

PROJECT WORK MONITERING COMMITTEE: APPROVED / NOT APPROVED

SUGGESTION IF ANY :

REMARKS (IF NOT APPROVED):

**SIGNATURE OF PROJECT MONITORING CHAIRMAN**

**COMMITTEE M E M B E R**