

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
“Jnana Sangama”, Belgaum - 590018



A PROJECT REPORT ON
“ENERGY EFFICIENT SOLAR DISHWASHER”

Submitted in the partial fulfillment of the requirement for the award of degree
BACHELOR OF ENGINEERING

In
ELECTRICAL & ELECTRONICS ENGINEERING

By
SANGEETHA J.S (1RR11EE404)
SHASHI C.N (1RR11EE406)
JNANADEEPTHI SEETHARAM (1RR09EE006)

Under the guidance of
Mr. PAVAN KUMAR K.R
Mrs. SINCY ELEZEBETH KURUVILLA
Asst. prof., Dept. of E&E, RRCE



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
RAJARAJESWARI COLLEGE OF ENGINEERING
MYSORE ROAD, BANGALORE-560074
(An ISO 9001:2008 Certified Institute)
(2013-14)

ABSTRACT

This project designs a mini prototype model of a dishwasher powered by solar energy. The hot water required for washing is provided by solar water heater. The dishwasher is powered by solar PV cells. According to user interface input, solar energy is used to run the control unit, pump motor assembly & the dry unit as per the designed cycle of operation. This project is designed to make life simple in busy days for nuclear families in urban areas, to make physically challenged peoples self dependent, to save power and make use of naturally available sources in daily life. The solar dishwasher is more energy efficient than the conventional one.

Keywords: PV panel, solar water heater, Soaking, Rinsing, Drying, Efficiency