

**VISHVESVARAYA TECHNOLOGICAL UNIVERSITY
BELGAUM-590 002**



A Project Report On

**“AUTOMATIC DIGITAL PHASE SELECTION AND SAFETY”
(K.S.C.S.T. Sponsored)**

Submitted in partial fulfillment of requirements for the award of the Degree of

**Bachelor of Engineering
In
Electrical and Electronics Engineering**

**Under the Guidance of
Prof. T.Chandrappa
Head of the Department of Electrical and Electronics**

Project Associates

Ms.Jyoti.B. (2SR05EE051)

Mr. Prasanna Kumar .R.C. (2SR06EE020)

Ms.soumya.H. (2SR06EE031)



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
SRI TARALABALU JAGADGURU INSTITUTE OF TECHNOLOGY
RANEBENNUR-581 115
JUNE-2011**

ABSTRACT

Power instability in developing countries creates the need for automation of phase selection or alternative sources of power to back-up the utility supply. Most industrial and commercial applications are dependent on power supply and if the process of change over is manual ,not only considerable time is wasted but also the device or machine may get damaged from human error during the change over connections, incurring massive losses. Here is a digital phase selector that can be installed in residential and office premises where single-phase equipment is used. When any of the mains phase lines fails, it automatically selects the available phase line (out of three phase lines or backup lines)