

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
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*A Project Report
On*

**“GENERATION OF ELECTRICAL ENERGY BY USING BOTH
CONVENTIONAL AND NON-CONVENTIONAL ENERGY
SOURCES FOR RESIDENTIAL PURPOSE”
[KSCST SPONSERED PROJECT]**

**Submitted In the Partial Fulfillment for the Award of Degree of
BACHELOR OF ENGINEERING
In
ELECTRICAL & ELECTRONICS**

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ABSTRACT

The proposed system converts energy from moving water into electricity. It is a simple system which is driven by water. The prime mover of the system is interfaced to turbine which is in turn driven by water. The system consists of a permanent magnet based low rpm generator, turbine, charger, storage unit. The potential energy of the water is converted into mechanical energy by turbine which is in turn converted to electrical energy by generator.

In addition to this, implementation of solar panels helps in the expansion of power source. Here solar panels are used on the over head tank. During the sunlight the solar panels converts the solar energy into electrical energy which in turn connected to the rectifying circuit, so that dc energy can be stored in the batteries and this power can be used for driving any other loads also a reverse blocking diode is used after the rectifier circuit to avoid the reverse flow of current back to the generating circuit.

The proposed system enables any house to drive lights, television & mixer (500 watts) kinds of loads.