NALLA MALLA REDDY ENGINEERING COLLEGE

Autonomous Institution

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NALLA MALLA REDDY ENGINEERING COLLEGE

(Approved by AICTE, Affiliated to JNTUH, Accredited by NBA NAAC: A Grade Institution code B6)

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CERTIFICATE

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This is to certify that the major project report titled,

Design and Installation of a 1kW Off Grid Solar System

Is being submitted by the following students under our supervision and guidance in partial fulfillment of the requirement for the award of degree of "BACHELOR OF TECHNOLOGY" from JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY in ELECTRICAL AND ELECTRONICS ENGINEERING from NALLA MALLA REDDY ENGINEERING COLLEGE

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Abstract

Solar energy can be harvested to generate electric power by photovoltaic (PV) panels. In applications where electricity is required, it can be a legitimate consideration to use a solar PV system that provides Energy supply to an energy demand installation/building. Furthermore, solar PV energy systems have provided the versatility solution for many sectors in all over the world especially in rural areas where outage of utility connection is the case. Also depending on the availability of the solar resources at the location where the system is to be installed.

Hence, the potential of the off-grid solar PV systems stands out so clearly to compensate the outage of the utility connection. It is now possible to set up several system configurations of designing solar off grid PV systems in relevant to the energy requirements needed to be supplied and the availability of the solar resources in the location where the solar off-grid PV system is being installed, so as an end goal of the off-grid PV system design, is to optimize the most suitable design in order to collect all the available solar energy to satisfy the need in the energy demand in an economically feasible price.

