



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

CERTIFICATE

This is to certify that the Project entitled "**EXPERIMENTAL INVESTIGATION ON A HYBRID SERIES ACTIVE POWER COMPENSATOR TO IMPROVE POWER QUALITY OF TYPICAL HOUSEHOLDS**" being submitted by T.SWETHA (18RP5A0210), B.PRAVALIKA (17RPIA0201), M.SHRUTHI (17RPIA0203), in partial fulfilment of the requirements for the award of the degree of bachelor of Technology in Electrical and Electronics Engineering of Jawaharlal Nehru Technological University, Hyderabad during the Academic year 2020-2021 is a bonafide work carried out under our guidance and supervision.

The results embodied in this report have not been submitted to any other University or Institution for the award of any other degree or diploma.

INTERNAL GUIDE

Mr. V. ASHOK CHAKRAVARTHY M.Tech
Asst. Professor

HOD-EEE

G. SANTOSH KUMAR M.Tech
Asst. Professor

EXTERNAL EXAMINER

PRINCIPAL

Dr. M. VENUGOPAL

Research and Development

Principal
Megha Inst. of Engg. & Tech for Women
Edulabad, Ghatkesar (MdI),
Medchal Dist-501 301



DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING
CERTIFICATE

This is to certify that the Project entitled **“REACTIVE POWER CONTROL FOR SINGLE-PHASE GRID TIE INVERTERS USING QUASI-SINUSOIDAL WAVEFORM** “being submitted by

A.SWAPNA	18RP5A0202
B.AISHWARYA	18RP5A0204
D.SUKANYA	18RP5A0206

In partial fulfilment of the requirements for the award of the degree of bachelor of Technology in Electrical and Electronics Engineering of Jawaharlal Nehru Technological University, Hyderabad during the Academic year 2018-2021 is a bonafide work carried out under our guidance and supervision. The results embodied in this report have not been submitted to any other University or Institution for the award of any other degree or diploma.

INTERNAL GUIDE

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M.Tech, Asst.Professor

EXTERNAL EXAMINER

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ENGINEERING**

CERTIFICATE

This is to certify that the Project entitled "AN ELECTRIC VEHICLE CHARGE-DISCHARGE MANAGMNET FOR UTILIZATION OF PHOTOVOLTAIC BY COORDINATION BETWEEN HOME AND GRID ENERGY MANAGEMENT SYSTEMS" being submitted by A. CHARITHA (18RP5A0201), NNAVYA (18RP5A0209), CH UMARANI (18RP5A0205), in partial fulfilment of the requirements for the award of the degree of bachelor of Technology in Electrical and Electronics Engineering of Jawaharlal Nehru Technological University, Hyderabad during the Academic year 2020-2021 is a bonafide work carried out under our guidance and supervision.

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INTERNAL GUIDE

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ASSISTSNT PROFESSOR

HOD-EEE

Mr. G. SANTOSHKUMAR M.Tech

ASSISTANT PROFESSOR

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**DEPARTMENT OF ELECTRICAL ANDELECTRONICS
ENGINEERING**

CERTIFICATE

This is to certify that the Project entitled "DUAL BUCK INVERTER WITH SERIES CONNECTED DIODE AND SINGLE INDUCTOR" being submitted by V.SHRAVANI (18RP5A0211), G. SANKA(18RP5A0207),E.SSHANIYA(17RP1A0202),in partial fulfillment of the requirements for the award of degree of bachelor of Technology in Electrical and Electronics Engineering of Jawaharlal Nehru Technological University, Hyderabad during the Academic year 2017-2021 is a bonafide work carried out under our guidance and supervision. The results embodied in this report have not been submitted to any other University or Institution for the award of any other degree or diploma.

INTERNAL GUIDE

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Asst.Professor

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