

# BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING

## BONAFIDE CERTIFICATE

This is to certify that this project entitled “**REMOVAL OF IMPULSE NOISE USING FIRST ORDER NEIGHBOURHOOD MEAN FILTER**” is the bonafide work of TAMATAM HARSHAK REDDY (U16EC054), BHUMMI REDDY VENKATA RAMANA REDDY (U16EC511) and YANDRA SAI VENKAT(U16EC056) who carried out the project work under our supervision. Certified further that to the best of my knowledge the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

**HEAD OF THE DEPARTMENT**  
**Dr. M. SANGEETHA**  
Professor,  
Department of ECE  
BIHER  
Chennai - 600073

**SUPERVISOR**  
**Dr. B. Karthik**  
Assistant Professor,  
Department of ECE  
BIHER  
Chennai - 600073

Submitted for the Project Viva-Voce examination held on .....21-4-2020.....

**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**