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DECLARATION BY THE CANDIDATE

I, **DEEPAK KUMAR**, certify that the work embodied in this thesis is my own bonafide work

and carried out by me under the supervision of Dr. KALPANA CHAUDHARY from JULY,

2014 to JUNE, 2018, at the DEPARTMENT OF ELECTRICAL ENGINEERING, Indian

Institute of Technology (BHU), Varanasi. The matter embodied in this thesis has not been

submitted for the award of any other degree/diploma. I declare that I have faithfully

acknowledged and given credits to the research workers wherever their works have been cited

in my work in this thesis. I further declare that I have not willfully copied any other's work,

paragraphs, text, data, results, etc., reported in journals, books, magazines, reports,

dissertations, theses, etc., or available at websites and have not included them in this

thesis and have not cited as my own work.

Date:

Signature of the Student

Place:

(DEEPAK KUMAR)

CERTIFICATE BY THE SUPERVISOR(S)

It is certified that the above statement made by the student is correct to the best of my/our

knowledge.

Supervisor

(Dr. Kalpana Chaudhary)

Signature of Head of Department