

## **CERTIFICATE**

It is certified that the work contained in the thesis titled “**Fabrication of Novel Nano-Structured Transition Metal Ion Doped ZnO based Thin Films for Methane Sensing Applications**” by “**Brij Bansh Nath Anchal**” has been carried out under my/our supervision and that this work has not been submitted elsewhere for a degree.

It is further certified that the student has fulfilled all the requirements of Comprehensive Examination, Candidacy and SOTA for the award of Ph.D. Degree.

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