



CERTIFICATE

The thesis entitled “**Simulation and Modeling of Gate Operated Magnetic Piston Engine**”, being submitted by **Manoj Kumar Gattani** to the University of Petroleum and Energy Studies for the award of the degree of Doctor of Philosophy is a bonafide research work carried out by him. He has worked under our supervision, and has fulfilled the requirements for the submission of this thesis, which has attained the standard required for a Ph.D. degree of the University. The content of the thesis, in full or parts have not been submitted to any other Institute or University for the award of any other degree or diploma.


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