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## Certificate

*It is here by certified that the paper ID : IJRASET23288, entitled  
Implementation of Intelligent Controllers in Direct Torque Controlled Permanent Magnet  
Synchronous Motor*

*by  
Dr. A. Sudhakar*

*after review is found suitable and has been published in  
Volume 7, Issue V, May 2019*

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*By [Signature]*

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