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## Certificate

*It is here by certified that the paper ID : IJRASET9536, entitled  
A Comprehensive Literature Survey on the Use of Particle Swarm Optimization  
Technique for Software Effort Estimation*

*by  
Mandeep Kaur*

*after review is found suitable and has been published in  
Volume 5, Issue IX, September 2017  
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*By [Signature]*

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