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## Certificate

*It is here by certified that the paper ID : IJRASET11169, entitled  
Parametric Study & Development of Surrogate Models of Friction Stir Welding  
Process of Copper Plate*

*by  
Vipul Pranami*

*after review is found suitable and has been published in  
Volume 5, Issue XII, December 2017  
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Good luck for your future endeavors*

*By [Signature]*

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