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## Certificate

*It is here by certified that the paper ID : IJRASET9515, entitled  
Reliability - Based Robust Design Optimization of Centrifugal Pump Impeller for Performance  
Improvement considering Uncertainties in Design Variable*

*by  
M. Balamurugan*

*after review is found suitable and has been published in  
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*Good luck for your future endeavors*

*By [Signature]*

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