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## Certificate

*It is here by certified that the paper ID : IJRASET33382, entitled  
Sum Rate Analysis and Power Allocation in Massive MIMO for Energy Harvesting  
and Simultaneous Wireless Information Power Transfer*

*by*

*Qazi Faizan*

*after review is found suitable and has been published in  
Volume 9, Issue III, March 2021*

*in*

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