**Declaration Certificate**

It is to certify that the research work described in this PhD dissertation entitled (Title) is the original work of the author and has been carried out under my direct supervision. I have personally gone through all its data, contents and results reported in the manuscript. Furthermore, to the best of my knowledge, all the data collected and analyzed are genuine and original. I further certify that the material included in the dissertation has not been used partially or fully, in any manuscript already submitted or is in process of submission in partial or complete fulfillment of the award of another degree from any institution. I also certify that the thesis has been developed under my supervision according to the prescribed format and I endorse its evaluation for the award of PhD degree in accordance with the prescribed procedure of the university.

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Supervisor

(Type Name here)

(Type Designation here)

(Type School Name here)

University of Management & technology Lahore, Pakistan