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CERTIFICATE OF THE SUPERVISOR

This is to certify that the thesis entitled "**Arithmetic properties of a partition function, vanishing coefficients in infinite product expansions and relations between sums of squares and triangular numbers**" submitted to the School of Sciences of Tezpur University in partial fulfilment for the award of the degree of Doctor of Philosophy in Mathematical Sciences is a record of research work carried out by **Mandeep Kaur** under my supervision and guidance.

All help received by her from various sources have been duly acknowledged.

No part of this thesis has been submitted elsewhere for award of any other degree.

Place: Tezpur

Nayandeep Deka Baruah

Date: