

**OPTICAL CHARACTERIZATION OF PARTICULATE MATTER  
USING INDIGENOUS COMPUTATIONAL AND  
EXPERIMENTAL TECHNIQUES**

**A thesis submitted in partial fulfillment of the requirements for  
the degree of Doctor of Philosophy**

By

**Manash Jyoti Boruah**

**Registration No. TZ133634 of 2013**



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**Napaam, Tezpur - 784028**

**Assam, India**

**June, 2018**

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দেউতাৰ পবিত্ৰ স্মৃতিত আৰু  
মাৰ চৰণত উৎসৰ্গা কৰিলো।

I dedicate this thesis to my beloved mother...

**Ritamoni Boruah**

Also dedicated to the loving memory of my father...

**Late Deben Chandra Boruah**