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**UNDERSTANDING LIGHT EMITTING PROPERTIES OF 8-  
HYDROXYQUINOLINE-RESORCINOL-FORMALDEHYDE  
POLYMER METAL CHELATES**

A PROJECT PRESENTED BY

S.B.NAYANANANDA

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To the Board of Study of Chemical Sciences of the  
**POSTGRADUATE INSTITUTE OF SCIENCE**

In partial fulfillment of the requirement  
For the award of degree of

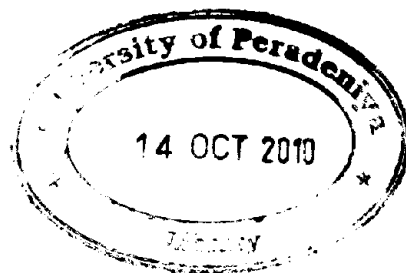
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8-HYDROXYQUINOLINE-RESORCINOL-FORMALDEHYDE  
POLYMER METAL CHELATES**

**S.B. NAYANANANDA**

**Department of Chemistry  
University of Peradeniya  
Peradeniya.**

**Abstract**

8-Hydroxyquinoline undergoes condensation polymerization reaction with formaldehyde in acidic medium yielding a polymer with approximate molecular weight of 3000. This polymer can be modified with resorcinol to get better physical properties. The polymer was chelated with different types of metal ions and checked their Light emitting properties taking Alq<sub>3</sub> as the standard light emitting polymer.