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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

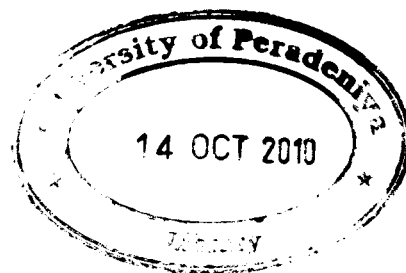
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POLYMER METAL CHELATES**

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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 Alq₃ as the standard light emitting polymer.