

**Crystal Structures and Spectral Aspects of Mixed
Ligand Transition Metal Chelates Derived
from Aldehyde based ONS Donor
Thiosemicarbazones**

*Thesis submitted to
Cochin University of Science and Technology
in partial fulfillment of the requirements
for the award of the degree of*

DOCTOR OF PHILOSOPHY

Under the Faculty of Science

by

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Derived from Aldehyde based ONS Donor Thiosemicarbazones**

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Front cover: Intra and intermolecular hydrogen bonding interactions of 5-bromo-3-methoxysalicylaldehyde-N(4)-phenylthiosemicarbazone (H_2L^1).

Back cover: Coordination polyhedra of $[MoO_2L^1DMF] \cdot DMF$ (**34**) in a super cell.

"I love you, Lord, my strength..

You are my rock, my fortress and my deliverer.."

(Psalms 18:1,2)

**** *To my beloved*

*Appa & Amma*****
