

**SELF-ASSEMBLY OF COBALT, COPPER AND  
MOLYBDENUM BASED HYBRID SOLIDS:  
TUNING METAL-LIGAND INTERACTIONS TOWARDS  
PROPERTIES**

Submitted to the University of Calicut  
in partial fulfillment of the requirements

for the Degree of  
**Doctor of Philosophy in  
Chemistry**

By

**MEMSY C K**

Under the guidance of

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