

सीएसआईआर - राष्ट्रीय रासायनिक प्रयोगशाला

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)

डॉ. होमी भाभा मार्ग, पुणे - 411 008, भारत



CSIR - NATIONAL CHEMICAL LABORATORY

(Council of Scientific & Industrial Research)

Dr. Homi Bhabha Road, Pune - 411 008, India

CERTIFICATE

*This is to certify that the dissertation entitled "Hexa-Peri-Hexabenzocoronene Cage with Naphthalene Pillars: A New Organic Cage Semiconductor" is an authentic record of the project work carried out by Amal T. Babu under my direct supervision and guidance in Organic Chemistry Division, National Chemical Laboratory (CSIR-NCL), Pune during the period 1st of April to 30th of September 2019; for the partial fulfilment of the requirements for the award of degree **Master of Science in Chemistry** at Department of Chemistry, Sacred Heart College (Autonomous), Thevara, Ernakulam, Kerala. The work presented in this dissertation has not been submitted in part or full to any other university or institute for award of any degree or diploma.*

Date: 30-06-2019

Place: Pune

Dr. Santhosh Babu Sukumaran

Senior Scientist

Organic Chemistry Division

CSIR-NCL

Dr. Homi Bhabha Road, Pune

Dr. Santhosh Babu Sukumaran
Senior Scientist
Organic Chemistry Division
National Chemical Laboratory
(CSIR-NCL), Pune - 411008.

Communication Channels

NCL Level DID : 2590
NCL Board No. : +91-20-25902000
EPABX : +91-20-25893300
 : +91-20-25893400



FAX

Director's Office : +91-20-25902601
COA's Office : +91-20-25902660
SPO's Office : +91-20-25902664

WEBSITE

www.ncl-india.org