

# Center for Computation, Modelling and Simulation (CCMS)

(<http://ccms.iisertvm.ac.in/>)

**IISER Thiruvananthapuram, Trivandrum 695016, Kerala, India**

**A multidisciplinary research centre based on High Performance Computing**

## Research Areas:

- Genomics/Genetics ● Quantum Chemistry
- Computational Fluid Dynamics ● Computational Condensed Matter
- Cosmology and Gravity ● Quantum Information Theory

## Peoples:

- Amal Medhi, Nishant KT,
- RS Swathi, Arun KR,
- S. Shankaranarayanan,
- Archana Pai, Anil Shaji

Deliverables Planned for April-Sept 2016	Actual achievement
Procurement and Setup of High Performance Computing (HPC) Cluster	The procurement process of a 120 TERAFLUPS HPC cluster is underway (process got delayed due to retendering)
Training of graduate students/postdocs in High Performance Computing and its applications to scientific problem solving.	Organized a national workshop on "High Performance Scientific Computing", June 0610, 2016. Number of Participants: 69. Topics Covered: <ol style="list-style-type: none"><li>1. Bioinformatics: Next generation sequencing data analysis</li><li>2. Quantum Chemistry: Electronics structure methods Theory and Computation.</li><li>3. Computational Mathematics: Simulation of population balance equations and finite element methods</li><li>4. Computational Physics: Density Functional Theory, Quantum Monte</li><li>5. C++ programming, Scientific Python, Parallel Programming, HPC hardwares</li></ol>

## PhD/Research Associates attached to the CoE

Three (3) number research associated selected for appointment on Sept 2016.

## Expenditure and Fund position (In Lakh)

Opening Balance on 1st April 2016:	Amount received during April-Sept 2016:	Amount Spent:	Balance Available:
Rs. 150.00	Rs. 0.00	Rs. 2.61	Rs. 147.39

## Half yearly Plan for the next half year (October-March 2016)

Deliverable	Likely cost (In Lakh)
Completion of the procurement process and operationalization of up the HPC cluster	Rs. 250.00
Research Works	-

## Contact:

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