MoU Signed between IIT Patna and C-DAC

Why in News?

- On 02 May 2023, an MoU was signed between IIT Patna and C-DAC to set up a supercomputer at IIT Patna by September 2023.

Key Points:

- The MoU was signed by Prof. T. N. Singh, Director, IIT Patna and E. Magesh, Director General (DG), C-DAC.
- IITs will be equipped with supercomputer power by September this year under the National Supercomputing Mission. The cost of setting up this supercomputer will be Rs 20 crore.
- This supercomputer can compute data with 833 tera flops or one trillion floating point operations.
- It is worth mentioning that IIT Patna has been selected by the Union Ministry of Science & Technology among the 9 institutes of the country.
- This supercomputer will prove to be a milestone and will enhance the high level of data computation for various purposes.
- Through this, it will help in forecasting the weather, as well as be able to issue alerts on the possibility of floods from agriculture.
- The youth working in the field of entrepreneurship will get a lot of benefits from this.
- With the advent of supercomputers, work will be done in various fields including Artificial Intelligence, Big Data, Security, Quantum Simulation, Process Simulation and Optimization, Computational Phyo Dynamics, Weather Modeling, Disaster Recovery, Drug Discovery, Molecular Dynamics, Machine Learning.
- Significantly, its infrastructure is based on Rudra Servers, which are designed, manufactured and assembled indigenously in India. This is a step towards Atma Nirbhar Bharat Mission.