

C-DAC

February 15, 2021

In news : Evaluation of Smart Water Supply Measurement & Monitoring technologies selected from Grand ITC Challenge underway at C-DAC, Bangalore

About the Centre for Development of Advanced Computing (C-DAC)

Ministry: C-DAC is the premier R&D organization of the Ministry of Electronics and Information Technology (MeitY) for carrying out R&D in IT, Electronics and associated areas

Establishment: 1988

Evolution of C-DAC and its areas of work:

Different areas of C-DAC, had originated at different times, many of which came out as a result of identification of opportunities:

- **The setting up of C-DAC in 1988 itself was to build Supercomputers** in the context of denial of import of Supercomputers by the USA.
- Since then C-DAC has been undertaking building of multiple generations of Supercomputers starting from **PARAM** with 1 GF in 1988.
- Almost at the same time, C-DAC **started building Indian Language Computing Solutions** with the setting up of GIST group (Graphics and Intelligence based Script Technology); **National Centre for Software Technology (NCST)(former name of C-DAC) set up in 1985** had also initiated work in Indian Language Computing around the same period.
- **Electronic Research and Development Centre of India (ER&DCI)** with various constituents starting as adjunct entities of various State Electronic Corporations, had

been brought under the hold of Department of Electronics and Telecommunications (now MeitY) in around 1988. They were focusing on various aspects of applied electronics, technology and applications.

- As a result of creative ecosystem that got set up in C-DAC, more **areas such as Health Informatics, etc., got created**; while right from the beginning the focus of NCST was on Software Technologies; similarly C-DAC started its education & training activities in 1994 as a spin-off with the passage of time, it grew to a large efforts to meet the growing needs of Indian Industry for finishing schools.
- **C-DAC has today emerged as a premier R&D organization in IT&E (Information Technologies and Electronics) in the country** working on strengthening national technological capabilities in the context of global developments in the field and responding to change in the market need in selected foundation areas.

ICT Grand Challenge

National Jal Jeevan Mission in partnership with Ministry of Electronics & Information Technology (MeitY) had launched an ICT Grand Challenge on 15th September, 2020 to create innovative, modular, and cost-effective solution to developing a 'Smart Water Supply Measurement and Monitoring System' to be deployed at the village level.

The ICT Grand Challenge will harness the vibrant IoT ecosystems of India for creating smart rural water supply ecosystem to measure and monitor the service delivery of the water supply in rural areas. This challenge will provide an opportunity to work for the cause of Jal Jeevan Mission and to assure potable water supply through tap water connection to every rural household.

Jal Jeevan Mission (JJM)

- It is under implementation in partnership with States, with aim at providing Functional Household Tap Connection (FHTC) to every rural household by 2024.
- The programme focuses on service delivery at the household level, i.e. potable water supply regularly in adequate quantity and prescribed quality.
- This requires the use of modern technology in systematic monitoring of the programme and to capture service delivery data automatically for ensuring the quality of services