

Water Technology Research and Innovation Centres (WATER-IC)

a. Aim:

Water Technology Initiative is a demand oriented user centric initiative which includes application & development research in laboratories as well as demand driven mission mode research in field. The scope of initiative covers the value chain of R&D right from water oriented basic and applied research, pre-competitive technology development, technology based classification & assessment of technology options, pilot demonstration of technology leads from laboratories and academic institutions to evolve a basket of technology options and mounting of technically, socially, environmentally and eventually affordable convergent solutions suited to socio-economic context.

Considering the prevalent and emerging water challenges in Indian scenario, virtual networked centres can develop knowledge base to cater to the various water relevant issues through supporting R&D for water quality, quantity and recycle & reuse. These centres are expected to nurture knowledge, innovation, expertise through institutional and human capacity building of water researchers, professionals, community etc and to address the gap areas in Water Technology research, development, demonstration, adaptation, adoption and commercialization of water. The aim of these Joint Virtual Networked Centres will be to enable Indian scientists from academia and laboratories to carry out joint research activities by leveraging existing infrastructure and funding through linkages established by a virtual networked center.

- To encourage synergistic joint programme on water technology, research & innovation through networking of competence, experience and expertise.
- To promote translational research and enabling mechanisms for last mile connectivity of the research findings into the field.
- To foster stakeholder partnerships by promoting research and innovation for addressing water challenges.

b. Eligibility:

- Consortium of regular faculty researchers from all Science, Technology and Engineering disciplines working at Indian research institutions from academia, public funded R&D laboratories and DSIR recognized in house R&D institutions.
- The consortium should be led by academic or public funded R&D institutions
- Minimum of 4 Indian institutional partners having adequate demonstrable experience, expertise and achievements in addressing water challenges. Participation of stakeholders is encouraged.
- All partners need to have tangible and distinct intellectual and financial stake in the joint center activity by contributing towards research programme.

c. Thrust Areas

- The centres are expected to have a research agenda encompassing research, technology innovation and need to strive to address water challenges through technology solutions as well as capacity building of

stakeholders. They are expected to be national and international repository of the knowledge in the thematic area and should provide foresight and vision for action oriented research.

- The research agenda should include state of art research goals and focus on specific challenges in the realm of water availability, water purification treatment and water recycle & reuse.

d. Duration: 5 years

e. Project Cost: Upto ₹ 7 Crores.

f. Proposal Formulation:

The applicants are encouraged to identify the current and emerging research challenge on identified topic. The formulation exercise would typically require identification of research agenda of the centre and complementary competencies of participating organization to pursue the research agenda. The relevance of the research agenda to national priorities need to be established beyond doubt. The research topic could be on water availability, water treatment, water recycle and reuse, water- energy nexus etc. It is essential that the lead centre and participating institutions have substantial research work to their credit on the selected theme. The proposal should be planned for five years. However, clear quantified deliverable at the end of three years would form basis for continuation of centre for another two years

g. Proposal Submission:

3 hard copies of the proposal and 1 soft copy of the proposal (in CD), along with the (original) “Certificate from the Investigators” and “Endorsement from the Heads of the institutions” should be mailed with “Proposal for “Water Technology Research and Innovation Centres (WATER-IC)” super scribed on the packet. The proposal should be received in DST **on or before 30th April 2017**. Soft copy (Microsoft word format) is also to be emailed to dstwcall@gmail.com.

Mailing Address

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h. Format:

The format, guidelines and executive summary for WATER-IC call is available at the DST website (<http://dst.gov.in>).