Demand Driven Convergent Water Solutions in Mission Mode

a. Aim:

This call is aimed at delivering customized technological solutions in specific socio-economic context to address identified water challenge. The focus is on application research and field level interventions to demonstrate technical, social, environmental and eventually economic sustainable solution for water challenges. The demand for intervention need to be evident and established clearly. The call envisages-

- Customised convergent technological solutions to address prevalent and emerging water challenges in selected clusters having clearly identified water challenges amenable to technological solutions.
- Techno-socio-economic environmental assessment of technology options in clusters of population of 10,000 or more. Also up-scaling of convergent solutions successfully demonstrated under various research, development and demonstration programme for a population of 1,00,000 or above. For upscaling, successful demonstration need to be proven.

b. Eligibility:

The proposals have to be submitted in the consortium mode only. The consortium is expected to be led by faculties/ scientists working in regular position in recognized academic institutions, public funded R&D Institution/ Laboratories, state S&T councils in partnership with other academic/ R&D organisation, state line departments, S&T based voluntary organisation etc. Participation of industries/ start-ups is also welcome, where-ever applicable. The consortium should essentially include at least a user having interest in the intervention, a solution designer and a solution provider. The role of solution designer and provider can be assumed by the same organization, if the organization has required expertise and experience.

C. Identified Water Challenges:

The call intends to prioritise following challenges hitherto not covered/ partially covered under Technology Mission on "Winning, Augmentation and Renovation" for Water. Only PRIORITISED CHALLENGES mentioned below will be eligible for consideration in this call. The prioritized challenges are:

- Integrated water management for water sensitive cities and sustainable water balance for urban cities.

- Balancing water demand and use utilizing technological tools.
- Near Zero Liquid Discharge (ZLD) Options for effluents (including energy savings).
- Technological solutions for optimal use of water in industry.
- Flood Management technologies for utilization of unexpected or suddenly available water for agriculture and drinking purposes.
- Addressing pesticides and other use derived residues in selected clusters.
- Technological solutions for optimal use of water in agriculture.
- Technological solutions for Wetland preservation and management.

c. Duration: 3 years maximum

d. Project Costs (Indicative):

Demonstration upto10000 population: ₹ 3 Crore

Up-scaling upto 100000 population: ₹ 5 Crore

e. Proposal Formulation:

The applicants are encouraged to peruse the Mission Plan Document on WAR for Water available at DST website. The formulation exercise would typically involve collecting site specific conditions and assessing holistic water requirement. Methodology proposed in the document could be referred to for guidance. The strategy for sustainability of intervention post intervention also needs to be explicitly stated.

f. Proposal Submission:

Executive Summary of the project proposal clearly indicating "**Demand Driven Convergent Water Solutions in Mission Mode**" in .doc file and complete project proposal with all enclosures (1 marked original + 2 hard copies + 1 soft copy as .doc and .pdf file) and filled up Executive Summary in prescribed format (as provided on DST website) should reach Dr. Neelima Alam, Scientist 'E', Technology Mission Division, Department of Science & Technology (DST), Technology Bhavan, New Mehrauli Road, New Delhi- 110016 by the closing date of the call. Soft copy is also to be emailed to dstwticall@gmail.com. The proposal should be received in DST **on or before 15th March, 2017**.

g. Format:

Proposal formats for the Projects Proposals and Executive Summary is available on DST website.