

Identification of Urban Resilient Water Solutions in India

Competition Manual

Organising Partners:



Climate KIC, Quercus Group and the Royal Danish Embassy

Supporting Organisation



Novozymes, Grundfos



Nordic Innovation - Funding partner

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Access official project website [HERE](#)



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1. Call to Action

Can you help bring smart and climate-friendly water solutions to one or more of India's metropolitans?

The cities of Bhubaneswar, Panaji, Shimla, Mumbai, New Delhi and organising team EIT Climate-KIC, Quercus Group and the Royal Danish Embassy in India invites innovators to take part in an Open Innovation competition to solve urban water problems in India by bring relevant solutions to marked.

1.1 Background

With the planets second largest population at 1.3 billion, and expectant growth to 1.7 billion by 2050, India finds itself unable to serve the vast majority of that populace with safe, clean water. The population is poised to increase by 400 million by 2050, which leave India is facing a huge challenge to meet the expected growth of its cities and urban infrastructure.

An important element in India's growth outlook is its current urban transformation. India is yet to unlock the full growth potential of its urbanisation process and the existing urban infrastructure is not equipped to accommodate the coming dramatic growth of its cities. Addressing these issues is high on Government of India's agenda. To address this critical situation the Government of India has launched a *Smart Cities Mission Initiative*, a bold, new initiative. The program aims to establish frameworks that can be replicated both within and outside the Smart Cities Mission alliance, catalysing the creation of similar smart cities in various regions and parts of the country.

In order to provide concrete solutions to this problem, Climate KIC, Quercus Group and the Royal Danish Embassy are tasked by Nordic Innovation to identify innovative solutions though Open Innovation Day (OID) to help improve urban resilient water solutions in 5 cities in India, as well improve life quality for the citizens and adopt systemic thinking about circular water systems, with the aim of generating advantages for the local, urban environment in the cities.

The Cities

The following Indian cities are a part of this Open Innovation Call:

#1	City of Bhubaneswar	Urban Flooding Management
#2	City of Panaji	Urban Water Body Management
#3	City of Shimla	Waste Water Management
#4	City of Mumbai	Rejuvenation and Beautification of the River
#5	City of New Delhi	Solid Waste Management

Each of the cities selected, offer specific and unique qualities as an innovation ecosystem. And in the same time each city faces significant environmental challenges – often associated with a metropolis – which again despite having a common theme, vary significantly between settlements.

Detailed descriptions of each city challenge are available on the open call page.

1.2 Description of the Open Innovation Call

The goal for this Open Innovation call is to engage innovators, SME's, companies and other relevant stakeholders who work with concrete solutions which can address the water related challenges defined in each of the selected cities. It is a global program, open for all with a registered company ID.

Solution requirements

The contestants shall contribute with solutions which improve water resiliency in the five selected city that addresses the following purposes:

- How to improve the current situation described in the challenges
- Why is your solution fit for purpose
- What is the estimated impact e.g. social, environmental and financial
- How will it affect society, life quality and job creation
- What is need to be monitored, tested or installed
- What is required to test and/or implement your solution
- What are the business cases and is it scalable
- What is the next step toward test and implementation

It is acceptable that some or all of the components of the proposed solutions require further development to be made fully applicable in the context of this competition.

It is likely that some aspects of a proposed idea or solution have been developed elsewhere for other purposes. Contestants are moreover welcome to come up with partial solutions with functions that supports one of the main purposes of this urban challenge. integrated solution developed by a consortia as well as a point innovation developed by one entity are both welcome.

Matured solution tested and/or installed in other setting are preferable, financial self-sustain solution are preferable, an solid understanding of the business model behind the solution is crucial.

The competition support and endorse female entrepreneurship, international collaboration and new type of open public private partnership.

The competition has a zero tolerance toward corruption.

2. Competition Format

2.1 Competition Program

This is an Open Innovation competition similar to previous demand led innovation program organised by Climate KIC, read more about our previous programs [HERE](#). For further reading please find Climate KICs short Open Innovation In Cities Brochure [HERE](#).

The program has two overall stages:

Stage one

Proposals can be submitted **until 29 March 2019** (23.59 CET). The pre-selection will take place in early April. Finalists for each city will be selected and announced in April.

Stage two

The selected finalists will be invited to a virtual bootcamp and site visits in the relevant cities, where the contestants will receive professional advice and assistance by Climate-KIC and Quercus Group in corporation with the Royal Danish Embassy on how to best bring their ideas to life.

Timeline:

1. March	Open for submission
29. March	Deadline for submission of proposals
Early April	Pre-selection process
Late April	Announcement of five innovators for stage two
Late April	City visits for contestants and bootcamp
May	Final pitch and announcement of final winner

Implementation

The goal of the competition is to develop solutions that support the demands of the organising partners looking to improve water resilience in five cities in India. The challenges presented demand various aspects of the project such as technique, production, economy, long-term sustainability, public engagement, local employment possibilities etc. The organising partners do not take responsibility for the potential implementation of the solutions. The responsibility of the organising partners ends with

the end of stage two, when the winners are announced. However, the winning proposals will each receive professional advice in form of a follow-up meeting with the organising partners on how best to bring their idea closer to reality. Climate KIC will supervise and support through project negotiation, implementation, scaling and branding of any relevant ideas.

2.2 Application procedure

The Open Innovation call invites applicants from all industries, professions, ages, genders, and nationalities to submit proposals. However, to be considered for stage one all proposals submitted must fulfil the below requirements.

Formal application requirements

All proposals submitted to the open call stage one must contain a detailed description of how the solution solves the specific city challenge. Furthermore, the application must include a description of its climate impact and contribution to sustainable urban development.

More specifically, the application must:

- Be written in English
- Contain a written description of the solution in maximum four A4-pages, text size 12, Times New Roman or equivalent.
- Be submitted in PDF-format.
- Follow the instruction in the application form

Application deadline: 29. March 2019 (23.59 CET).

The scope and content of proposal development and presentation at stage two will be informed as a part of the invitation to the finalists.

Evaluation process

The evaluation of the proposals will be carried out by representatives from the organising partners. The jury may consist of joined by experts from other institutions in order to cover opinion on different aspects of the proposals.

The competition will end with a final event, where all finalist can pitch their developed proposal in front of a panel appointed by the organising partners. The jury members of stage one and two may vary.

Evaluation criteria

The proposals will be judged and selected according to the following criteria. Technical and economic feasibility are absolute demands for a winning proposal.

Feasibility – *How likely is it that the solution can be implemented?*

- Technical feasibility
- Economic feasibility
- Replicability

Innovation and ingenuity – what are the value proposition of the solutions?

- Level of creativeness and innovativeness
- *Is this solution tested or already implemented elsewhere*
- *What will be required for implementation*

Use and function – *How will this solution work and be perceived on a daily basis?*

- Functionality and attractiveness
- Form and design (in accordance to cultural heritage conservation).

Climate impact – *How climate-friendly is this solution?*

- Increase of water efficiency
- *Creating better resilient water infrastructure*
- Waste minimisation
- Reduction of greenhouse gas emissions

2.3 Practical Information

Economic compensation

The finalists per cities (up to two team members per accepted proposals) will be reimbursed for travelling and accommodation expenses in accordance with EIT Climate-KIC terms and conditions, maximum up to 500€. All receipts must be presented for expense to be reimbursed.

Intellectual Property Rights

The intellectual property rights (IPR) for the proposals are owned by the contestants. The IPR can be transferred to any of the organising partners or any other partner involved in the implementation in return for economic compensation which is agreed between the contestants and the partner willing to take over the IPR.

At stage two, the ideas will be presented to other contestants not working in the same organisation, which may result in an agreement about IPR to be drawn up and signed between the teams. The organising partners will not take any responsibility for such agreements. The responsibility belongs entirely to the teams. A copy of such agreement must, however, be sent to the competition secretariat before the second stage begins.

Publishing

All relevant proposals submitted to the competition will be published in a solution catalogue associated with the competition. This catalogue will, completely or partly, be used for promotional purposes and shared on the official competition website and on the websites of the organising partners. It may moreover be shared with other external parties to inform others about the competition and/or its results.

By submitting a proposal and thereby taking part in this competition the contestants accept that their proposals can be published. If this is not acceptable, notice must be submitted when the proposal is registered.