# AQUANOMICS PROBLEM STATEMENT

# Introduction:

Have you got a zeal and dedication to the environment and our water resources? CEA FEST 2015 presents to you Aquanomics - a brain twisting event from the Department of Environmental and Water Resources Engineering.

This event would provide you with a rare opportunity of an experience with environmental and water resources engineering. It prepares you for the growing demand of green buildings in the future.

It is a combination of pre-registered event on environmental engineering and on-spot event which is inspired from water resources engineering

## Problem Statement:

Aquanomics begins its journey with an event that integrates water filtration and irrigation.

Both the parts would have equal weightage.

First part:

1. A grey water sample would be provided to all the teams.
2. The teams are supposed to build a grey water filter to make 10 litre grey water sample suitable for agriculture use.
3. Materials are to be brought by the team in accordance with the filter design submitted in the TDP.

**The filtered water should follow the Bureau of Indian Standards for irrigation purpose. The soil type should be taken as that for Chennai, that is, mostly clayey soil for semi-tolerant crops.**

Second part:

1. On-spot event in continuation with the first part at the same spot.
2. Materials would be provided by us.
3. Rules would be announced there.

#### Rules

1. Each team should have 3 members.
2. The TDP should also contain names of all the members, their respective colleges, college ids and email ids.
3. The time provided for the first event would be 1.5 hours
4. The decision of the coordinators would be final.
5. NO DRINKING WATER WOULD BE ALLOWED(water will be provided if needed)

## TDP

1. The teams have to provide a grey water filter design along with the cost estimate.
2. The same filter design should be used for the first part of the event.
3. It has to be sent to the following email-id: aquanomics15.ceaiitm@gmail.com

The last date for TDP submission is 21st February 2015.

The TDP should also contain names of all the members, their respective colleges, email ids and college ids

## JUDGING CRITERIA

For the first part of the event following are the criteria in order of priority:

1. Least water loss (maximum 25 points)
2. Low economic cost (maximum 20 points)
3. Innovative Idea (maximum 15 points)
4. User friendliness (maximum 10 points)
5. Eco friendliness (maximum 5 points)

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