



Competition to identify innovative replicable cost-effective sanitation options

1 Introduction

The National Institute of Urban Infrastructure Planning (NIUIP) at the University of Engineering & Technology, Peshawar, with the support of UNICEF Peshawar is holding a competition about low cost sanitation options. The competition is open to two categories of contestants:

- 1) Students registered in Public and Private Universities of Pakistan, and
- 2) Entrepreneurs/manufacturers/consulting firms/NGOs etc.

The main idea is to identify and/or develop low cost & sustainable sanitation options/technologies that are appropriate within the socio-cultural context and various climatic regions of Pakistan.

Those desirous to participate in the competition may send their following information (via email at niuip@uetpeshawar.edu.pk) to register for the competition and be able to receive any updates after the initial announcement of the competition:

- a) Name(s) of the project team members
- b) Project lead person's name, phone number and email address
- c) Institutional affiliation of the team

Competition participants are also encouraged to regularly visit this webpage for any updates. The following sections provide further details about the competition.

2 Objectives

Submitted proposals shall aim to achieve one or more of the objectives listed below. Furthermore, the submitted proposals should also address/demonstrate the sustainability aspect of proposed options.

- a. To develop or identify decentralized fecal sludge management options;
- b. To develop or identify low cost technology sanitation hardware options at the household levels;
- c. To develop feasible options of resource capture from sewage treatment and re-use potential of sewage;



- d. To develop Gender, Equity and Sustainability inclusive designs;
- e. To arrive with/bring forth designs catering to people with special needs and those of vulnerable groups;
- f. To come up with innovative design/financing and management concepts including O & M and self-sustaining systems.

It needs to be emphasized that the above-mentioned objectives have to be explored within the context of peculiar local conditions of Pakistan. This would entail consideration of economic and market conditions, availability of local materials, supply chains, availability of skilled labour, climatic and geographic characteristics, and socio-cultural norms.

3 Categories

The competition is open to two categories of participants:

- Academic/ Research; and
- Businesses Entrepreneurs, Consultants, Companies etc

3.1 Academic/ Research

This category is open to students enrolled in universities and research institutes. Students can participate individually or in groups of 4 or less members. In either case, the students need to participate preferably under the supervision of a faculty member of their respective institutions.

3.2 Businesses

This category includes entrepreneurs, consulting firms, manufacturers, traders, etc.

4 Awards

Separate prizes will be awarded in each competition category, as follows:

	Academic	Entrepreneurs
First Prize	Rs. 150,000/-	Rs. 150,000/-
Second Prize	Rs. 100,000/-	Rs. 100,000/-
Third Prize	Rs. 50,000/-	Rs. 50,000/-



5 Outcomes/Outputs/Deliverables (by competition's deadline)

- I. Cover letter including the names and signatures of all project team members
- II. Letter of permission from the academic institution administration or company management, as applicable, to participate in the competition
- III. **Power Point Presentation:** Shall contain 20±5 slides
- IV. **Poster:** Shall contain:
 - Topic
 - Group members with role(s)
 - Clear/Visible process or concept or flow diagram
- V. **Project Report**
The report should comprise the following sections
 - a. Executive summary
 - b. Abbreviations/acronyms
 - c. Introduction
 - d. Literature review
 - e. Aims and objectives
 - f. Methodology
 - g. Findings
 - h. Recommendations
 - i. Conclusions
 - j. Appendices such as Financial Analysis, Cost Benefit, or LCCA, etc
- VI. **Physical Model (where applicable)**

6 Competition time

Complete project documents along with prototype models (where applicable) are due by:

May 31st, 2018.



7 Evaluation Process

All duly submitted proposals will be judged by an independent jury under a blind process whereby the jury members shall not be made aware of the project team members and their affiliations. The jury shall comprise of members from academia/donor agencies/relevant businesses/civil society organizations.

Once the jury panel is established, they shall develop their checklist and marking scheme for evaluating the submitted projects. This, as well as the actual evaluation process shall be completed within 3-4 weeks after the competition deadline is closed. Award winning teams shall be notified and the awards announced during a prize distribution ceremony.

8 Contact Information

Further queries may please be directed at the following address:

Office Manager, National Institute of Urban Infrastructure Planning

University of Engineering & Technology Peshawar.

Email: niuip@uetpeshawar.edu.pk

Phone: 091 – 921 7166