



Ministry of Housing
and Urban Affairs
Government of India



DESIGN IDEAS COMPETITION FOR “TOILETS” UNDER SWACHH BHARAT MISSION – URBAN

Toilets 2.0

Design Toilets
A Swachh Bharat Mission Urban Initiative

- Preamble
- Competition Guidelines



conducted by
Council of Architecture
Ministry of Education, Government of India

DESIGN IDEAS COMPETITION FOR “TOILETS”

I P R E A M B L E

The Government of India launched Swachh Bharat Mission - Urban (SBM-U), on 2nd October 2014 with an objective to make India free from open defecation and achieve 100% scientific management of municipal solid waste in 4,041 statutory towns in the country. Swachh Bharat Mission - Urban is implemented by the Ministry of Housing and Urban Affairs (MoHUA).

Clean and safe toilets are prerequisites for health, dignity, privacy, and education. Through the Swachh Bharat Mission, India has achieved its target of providing access to safe sanitation years ahead of the target set under SDG. But sustaining this achievement is even more critical to embed key behaviours i.e. continued use of a toilet.

Public toilets are often associated with tags of “unclean” and “unhygienic”. This can be contributed to issues of operations and maintenance which discourages users to use public facilities at ease. However, other factors such as user behaviours, social-economic -cultural backgrounds, climate, topography, etc also play a significant role.

Design of a toilet also has a large role to play in influencing user behaviour, and their physical interaction. The ways of use of men and women are dissimilar and hence the same space has different utilities for different genders. Hence it is important to ensure the public facilities are designed to be user-friendly, durable, comfortable and functional.

Currently, it is estimated that about 20% of urban households in cities are likely to use Community Toilets (CTs) due to land and space constraints in constructing individual household latrines. In addition, States and cities also ensure that a sufficient number of Public Toilets (PTs) and urinals are constructed in each city.

As part of Swachh Bharat Mission 2.0, which was extended for another period of five years, from 1st October 2021 to 1st October 2026, cities will have to provide additional public and community toilets including in all tourist destinations/places with high footfall/iconic cities/religious destinations, etc.

Toilet blocks consist of a given number of toilet seats, as per requirements, toilet superstructure including the pan and water closet, and a substructure (either an on-site treatment system, or a connection to underground sewerage/septage system) shared by all the toilet seats and facilities for hand wash. The public toilets also are to have adequate provision for men, women, and facilities for the differently abled (e.g. ramp provision, braille signage, etc.) wherever necessary.

Some desirable features of the toilets are as follows:

1.0

INFRASTRUCTURE

- Walls and floors are clean and stain /graffiti free
- Toilet floor is dry and clean at all times
- Mirrors are clean and polished
- No foul smell
- Plants in the vicinity of toilet complex and well maintained
- Inclusive provisions such as handlebars, ramps, western commode etc.
- Low-height toilets/Indian toilets and basins for children

2.0

INCLUSIVE FUNCTIONAL FACILITIES / SERVICES

- Hand dryer/ paper napkin dispenser
- Women's toilets have vending machines for sanitary napkins/ alternate mechanism for sanitary pads
- Incinerator facility / alternate mechanism in women's toilets
- Baby feeding and changing stations
- Waiting room with seating facility and Wi-Fi

3.0

LOW - COST TECHNOLOGY SOLUTIONS FOR USED WATER / WASTE MANAGEMENT

- Water-efficient toilets (water reuse for flushing purposes, water-efficient fixtures etc.)
- Energy efficient toilet (use of solar panels for electricity)
- Cleaning of toilets with jet spray machines to minimise the water consumption
- Separate dustbins for biodegradable items and dry trash

REVENUE GENERATING O&M MODELS

4.0

(recovery of user charges via commercial activities advertisements etc.)

- Space earmarked for advertisement for revenue generation
- Setting up of kiosks for selling food items etc.

DIGITAL MONITORING OF TOILET FACILITIES VIA CITIZENS AND CARETAKERS

5.0

- SMS / any other ICT based feedback system
- ICT Based round-the-clock monitoring of the toilet maintenance
- Mobile Application to take daily systematic attendance of the deployed manpower

DESIGN IDEAS COMPETITION FOR “TOILETS”



A design competition is being launched by MoHUA with support from the Council of Architecture through which design entries are invited for public and community toilets from architects and students of architectural institutions.

The themes under which design solutions are sought are:

- a. Pilgrim and tourist locations** characterised by high footfall, need for ease in maintenance, visitors of various socio-cultural background, need for efficient ventilation, need for robust material choices that are heavy duty, meant for rough use, and overall facilities conforming to local heritage
- b. Specially challenging areas - Solutions are sought for any one of the two areas:**
 - i. Cold and hilly/high-altitude** characterised by sub-zero temperatures, freezing water making flushing and handwashing difficult, delayed digestion of faecal sludge, and overall user experience cold and uncomfortable
 - ii. High water table areas** prone to flooding, consistent wet soil, unstable substructure, poor drainage, water entering toilet substructure, risk of contamination of groundwater table, etc
- c. Old/Big cities with land constraints** characterised by high density population, need for efficient ventilation in toilets, space saving features/modularity/ prefabrication/ compact and user-friendly models
- d. Disaster prone areas** where it is preferred that toilet models may provide solutions such as prefabricated, quick assembly, stored in less space, and transported quickly, etc.
Solutions are sought for any of the below three scenarios:
 - i. Cyclone prone areas**
 - ii. Earthquake prone areas**
 - iii. Flood prone areas**

Each individual/team may submit entries for any one or more or all themes. But under a single theme, only one entry is permitted.

The competition will be conducted in 4 phases as elaborated in the table below:

S. No.	Phase	Timeline
1.	Application phase – (a) Registration of Participants starts (b) Registration closes	19th November 2022 15th January 2023 by 5.00 p.m.
2.	Last date of submission of Design entries	31st January 2023 upto 5.00 p.m.
3.	Evaluation – All entries will be evaluated by a jury identified by the Council of Architecture and top 2 entries from each of the Four categories would be selected for awards of prize money	February 2023
4.	Announcement of results and awards	February 2023

The Competition Guidelines are given at **Annexure-I**, below.

1.1 Organiser of the Competition

1.1.1. The organizer of the Competition is the Ministry of Housing and Urban Affairs (MoHUA), Government of India and is being conducted through the Council of Architecture, Ministry of Education, Govt. of India

1.2 Purpose and Type of Competition & Eligibility to Compete

1.2.1. It is a Design Ideas competition, where MoHUA shall advise replication of design solutions suitably for the construction of public and community toilets in different cities and regions all over India.

1.2.2. It is open to architects registered with the Council of Architecture and students of Architectural Institutions through their head of Institution.

1.2.3. For the purpose of this competition, single person / team (maximum of 4 persons) shall be allowed.

1.2.4. The employees of MoHUA, its departments, autonomous bodies, subsidiaries consultants/ jury members/ CoA office bearers and officials, etc. are not eligible to participate in the competition.

1.3 Steps to participate in the competition

1.3.1. No participation fee is required to be paid by the invited participants.

1.3.2. The competition will begin with a formal announcement made by the MoHUA, on its website, and on its social media platforms and by CoA on their website/member channel/ associated universities etc.

1.3.3. All intending competitors will be required to register with the CoA/MoHUA website at the link https://ecoa.in/samarthaya/public/award_details/qwj to clear their eligibility and be assigned a Unique Identity Code to ensure their anonymity.

1.4. General Details & Schedule of the Competition

1.4.1. The competition schedule shall be as follows:

- Registration for Competition shall start from **19th Nov 2022 5.00 pm onwards till 15th January, 2023.**

ANNEXURE - I

- Last day for submission of entries – **31st Jan 2023 by 5.00 p.m.**
- Announcement of the results by COA/MoHUA and distribution of prize: The date will be communicated and declared by COA/MoHUA, separately
- All the official communications about the competition shall be through E-Mail only. (mohua.coa@gmail.com)
- Each team shall submit only one entry per theme under either Public or Community Toilets category.

1.4.3. MoHUA reserves the right to alter the above schedule and this Competition document or extend the competition deadline before the last date of submission, which shall be deemed, confirmed and shall be binding upon all the participants.

1.4.4. **Competition Coordinator:** Prof. Pushkar Kanvinde & Registrar, Council of Architecture, New Delhi

1.5. Composition of the Jury

1.5.1. The jury shall be composed of the distinguished members of repute and credibility and majority of them would comprise of architects.

1.6. Competition Assessment and Deliberations

1.6.1. The jury members will determine the procedure to be followed for the assessment of the received entries. The discretion of the jury will be final. On conclusion of the assessment, the jury will submit a report to MoHUA indicating the procedures and criteria used for assessments.

1.6.2. Participants do not have the right to request for access to the jury's comments or records on the adjudication.

1.6.3. Upon completion of the procedure of evaluation, MoHUA on the pre-communicated award date, time and place will announce the final results of the design competition and distribute the first prize to the competition winner as declared by the jury.

1.7. Prize and Remuneration

1.7.1. The competition winning entry shall be awarded a prize money of **INR 5,00,000 (First Prize – 5 Lacs only)**, subject to deduction of applicable taxes. The second position shall be awarded a prize money of **INR 3,00,000 (Rs. 3 Lacs Only)**. The above prize will be awarded on announcement of the name of the Winner by the Jury.

1.7.2. COA/ MoHUA shall not be liable to compensate for any other expenses incurred by the participants on account of participation in this competition.

1.8. Implementation of the Winning Design Entry Idea

1.8.1. It is the intention of MoHUA to adopt the design ideas and concepts on the toilets or its components thereof, of the winning entry with or without modifications for its implementation. At an appropriate stage, MoHUA shall appoint a suitable agency to implement the selected design, and to prepare a standardised detail design with material specifications for the Toilets to be replicated as per the requirements of the MoHUA.

1.9. Reservation

1.9.1. MoHUA reserves the right to use with or without modifications, the design ideas and concepts on the toilets or its components thereof as submitted by all the invited participants, in phases as deemed fit by MoHUA.

1.10.

1.10.1. Design Submission

The submission should have a **concept note** not exceeding 1000 words and a walkthrough in case a participant wishes to submit, with following details in **A2 size**:

- Understanding of the Project (including successful and relevant Benchmarking studies),
- Solution to the larger concerns pertaining to existing community/ public toilets,
- Concept Designs represented through 3D views or sketches
- Technical Specifications of the Components of the Toilets along with construction Material and Block Cost Estimate.
- 03 nos. each A2 sized drawings (42 x 59.4) in landscape format (Plans, Elevations, Sections or any other detail to explain design concept and softcopy in PDF format)

1.10.1. Competition Process

The Competition will begin with a formal announcement made by the MoHUA/COA on its website, and on other social media platforms.

All intending competitors will be required to register with the CoA website at link https://ecoa.in/samarthaya/public/award_details/qwj to clear their eligibility and be assigned a Unique Identity Code to ensure their anonymity for the ensuing first stage. Queries will also be answered during this time.

ANNEXURE - I

The entries should be presented with a level of detail appropriate to the character as a design concept presentation. Teams should primarily focus on enabling the Jury to assess the main contextual, architectural and organisational qualities of the project.

Submission Criteria

- i. All entries are to be in English only.
- ii. The anonymity of the participants is to be ensured. The architect's name or participant's name should not be mentioned in any of the submission documents, else the entry shall be summarily rejected.
- iii. Each document to mention the reference code received during registration on the bottom right corner
- iv. Submission can be done in PDF only along with concept note (not to exceed 30MB)
- v. Total file size shall not exceed 30 MB.

1.10.2. The medium of expression should be mostly drawings, illustrations and 3D views with only explanatory notes, as required. Soft copy (in PPT or PDG format).

1.10.3. Entries submitted by the participants for the purpose of this competition will not be returned by COA/MoHUA.

1.11. Intellectual Property Rights and Confidentiality

1.11.1. The Intellectual Property Rights of the ideas / concepts and the submitted design shall vest with the author, however, MoHUA shall have the right to use the ideas /concepts and the submitted design(s) by all the participants, with or without modifications, in phases as deemed fit by MoHUA, in part or in full, in connection with the development of aspiration Toilets and its components, thereof.

1.11.2. The participants shall treat all the information provided by MoHUA for the purpose of this design competition to be confidential and shall not disclose the same with anybody without taking prior written permission of MoHUA.

1.11.3. These obligations will survive during the tenure and even after the completion of the said Competition.

1.11.4 MoHUA has rights to cancel, extend/reject the design competition without any reason at any appropriate time.

1.12. Application of Regulations

1.12.1. Sending of entries by a participant implies that the participant has gone through rules & regulations and guidelines of the competition contained in this competition document and accept the same in toto.

1.12.2. Non-compliance, if any, with regard to the conformity of the competition regulations will be recorded by the Committee for the consideration of the Jury. However, the Jury's decision in this regard will be final and binding on all the participants.

1.13. Disclaimers

1.13.1. COA/ MoHUA shall not be responsible or liable for any erroneous, damaged, destroyed, lost, late, incomplete, illegible and misdirected Entries, or any damage or loss arising from, connected with, or relating to the Competition, the submission of Entries to the Competition, participation in the Competition, regardless of the cause or any fault by the Organizer, the Organizing Committee and / or the Jury Panel or any person concerned for whom any of the above mentioned are responsible, and notwithstanding that any of those persons may have been advised of the possibility such loss or damage being incurred.

1.13.2. MoHUA may at its discretion cancel, modify or suspend the Competition. The participants shall not be entitled to any compensation as a consequence of such cancellation, modification or suspension of the Competition.

1.13.3. COA/ MoHUA, its employees / advisors / representatives or consultants make no representation or warranty and shall have no liability to any of the participants under any law, statute, rules or regulations for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this competition document.

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