

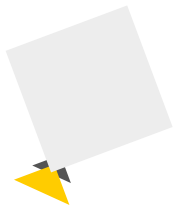
COMPETITION BRIEF

The Inspiration:

The "Pradhan Mantri Awas Yojana' (PMAY) is not just an infrastructure dream, (it is a mission). It is not meant to create walls or to provide land. It is a big program to fulfill the dreams and aspirations of the people.

It aims to give every single Indian a house."

- Prime Minister Narendra Modi



THE LOOMING TASK AHEAD:

10 Million Houses for the Homeless – Year 2019

20 Million Houses for Urban Poor – Year 2022

THE INITIATIVE:

A vision to house every Indian by any yardstick is both an ideal and a mammoth task to achieve. But achieve it we must. The growing issue of homeless people in India is one that needs to be tackled on a war footing and any talk of India being a developed nation before giving its every citizen a safe shelter is but a sham.

We believe shelter is both a fundamental right and privilege that each Indian should have.

Such an ambition requires enormous political will and, the PMAY is a step in that direction. But the government can't do it alone. This is the time when we need inspired and consistent collaboration between our nation builders, the engineering and architectural fraternity and the government to make the seeming impossible possible.

The competition "Building for a Billion" is but one such call for a seminal collaboration.

COMPETITION CATEGORY I – HOUSING (URBAN POOR)

As our cities grow each of them has a diverse narrative of migrants who make the city their home. This category of the competition invites the participant to investigate this changing narrative of the city and envision the future form of the home for these billions.

Please also refer to Outline: PMAY – Shehari

COMPETITION CATEGORY II – HOUSING (RURAL POOR)

The issues facing housing in rural areas are distinct. Unlike urban areas, space is not a constraint. Lack of budgets, unavailable professional intervention and an increasingly irrelevant typology has resulted in most housing in the rural areas of India being impermanent and unreliable structures. Here, basic amenities like sanitation and water supply are far removed. The competition seeks to encourage participants to look at contextual, sustainable and affordable alternatives to this issue.

Please also refer to Outline: PMAY - Gramin

COMPETITION CHALLENGE:

The competition entries are invited in two sub-categories for each of the two categories:

A) UNBUILT (Proposed) Settlements:

This segment invites entries for effective housing on urban or rural parcels which have been proposed or are ideas that offer solutions to of the criteria mentioned as part of the PMAY outline. The proposals can be already envisioned plans or ideas that have been generated as a response to this competition.

B) BUILT Housing:

This segment calls for entries that are built solutions for the problem of housing for the forgotten strata of the society. These can be projects that have been built within the last five years. Existing national or international (within the specificity of the competition brief) examples in mass housing, which have been executed, can be submitted as the primary idea.

In both the above cases, the proposals must be adapted to a specific site in India, with context to its surroundings, climatic conditions etc. The solutions should be seen as a mass housing response sited on a specific identified parcel.

COMPETITION CHALLENGE - URBAN

CATEGORY 1A-

Competition Brief for Urban Poor (Un-Built):

Part 1: Site Selection

- 1) An idea for housing without putting it in a real time context is but just a pipe dream.
- 2) Participants are required to identify and provide details of land parcel where they envision their idea to be realized.
- 3) A greenfield site, freeing up an existing incumbent government land, land parcels of the government which could be put to better and more efficient use - participants are to probe realistic and practical ways of finding a setting for their ideas.
- 4) While making a city specific proposal, city-specific by-laws for construction need to be followed.
- 5) Special attention must to be paid to the FAS/FSI regulations of the site identified.
- 6) The minimum parcel of land to be selected should not be less than 0.5 sqkm.

Part 2: Solutions

- 1) To design a unit not more than 30 sq. mtr. including the bath & WC area, within the unit.
- 2) To use it as a module and show its various applications on-site, thereby attaining scale.

- 3) It is mandated that the base material of the structure should be of concrete.
- 4) The proposal must be complete in all due respects of constructability, like BOQ, specifications, working drawings, structural drawings, unit plan, site plan, permissible area allotments etc.
- 5) Special consideration will be given to solutions outlining the cost advantage, the sustainability aspects, the structural longevity, the environmental considerations & impact and other GRIHA or LEED features.
- 6) Extra points will be given for using solar energy as the alternative source of power, recommending local materials & labor for construction, minimizing the carbon footprint, increasing the green cover and such like.
- 7) Services and utilities like water supply and storage, plumbing, sewage & drainage, electricity etc. are to be accounted for by the designer.
- 8) A general timeline of construction (speed at which construction can be achieved) and total no. of housing units provided (gross number of people to be housed) must be mentioned.
- 9) The total cost per unit should not exceed Rs. 3.00 lac. (Exclusive of land cost.)

CATEGORY 1B-

Competition Brief for Urban Poor (Built):

Step 1:

- 1) Project feasibility details.
- 2) Details of site selected and workings establishing effective and optimum use of the same.
- 3) The minimum parcel of land to be selected should not be less than 0.5 sqkm.
- 4) The project should not be older than five (5) years from the date of announcement of the competition.

Step 2:

- 1) To submit a unit not more than 30 sq. mtr, including the bath & WC area, within the unit.
- 2) To use it as a module and show its various applications on-site thereby attaining scale.
- 3) It is mandatory that the base material of the structure is primarily concrete.
- 4) The proposal must be complete in all due respects of constructability, like BOQ, specifications, working drawings, structural drawings, unit plan, site plan, permissible area allotments etc.

- 5) Special consideration will be given to solutions outlining the cost advantage, the sustainability aspects, the structural longevity, the environmental considerations & impact and other Green or LEED features.
- 6) Extra points will be given for using solar energy as the alternative source of power, recommending local materials & labor for construction, minimizing the carbon footprint, increasing the green cover and such like.
- 7) Services and utilities like water supply and storage, plumbing, sewage & drainage, electricity etc. must be accounted for by the designer
- 8) The design proposed should be sensitive to the geographical, cultural and social context in which it is meant to be realized.
- 9) The total cost per unit should not exceed Rs. 3.00 lac. (Exclusive of land cost.)
- 10) Details of the time taken for completion of the project must be given.
- 11) Details of any special new mode of construction or technology applied that impacted the project success must be mentioned.

Specific Instruction for All Participants
Strict adherences to the PMAY (Urban Guidelines)

Broad Criteria to be Maintained:

1. Feasibility: No blue sky ideas, only buildable solutions.
2. Scalable: Considering the quantum of requirement, the proportions in which the design solution can be scaled should be duly presented.
3. Speed of Construction: The race against time to meet the Government's deliverable is tight. To provide housing for such a large population makes the speed of construction an important factor for the proposal.
4. Local Material & Labour: The solution should be specific to use and must integrate an application of regional material and local labour.
5. Hygiene & Sanitation: Housing in such proportions will inflict tremendous pressure on existing utilities and systems. Hence, incorporating a prior consideration towards the same is a must.
6. Sustainable Benchmarks: The design solution must set new sustainable benchmarks with respect to materials, performance, longevity and impact. These value additions will be treated in retrospect with the cost of construction.
7. Community Involvement: Due consideration to the quality of life, social spaces and regional nuances are to be made while proposing a housing solution.

Special Note: Correct and complete adherence to the guidelines and parameters as outlined in the PMAY (Urban & Rural Schemes) must be maintained at all times.



COMPETITION CHALLENGE - RURAL



CATEGORY 2A-

Competition Brief for Rural Poor (Un-Built):

Part 1 : Site Selection

- 1) Participants are required to identify and provide details of the land parcel where they envision their idea to be realized.
- 2) A Greenfield site, freeing up an existing incumbent government land, land parcels of the government which could be put to better and more efficient use - participants are to probe realistic and practical ways of finding a setting for their ideas.
- 3) While making a proposal, village specific by-laws for construction must be followed.
- 4) Special attention must be paid to the FAS/FSI regulations of the site identified.
- 5) The minimum parcel of land selected should not be less than 0.5 sqkm.

Part 2: Solutions

- 1) To design a unit not more than 30 sq. mtr. including the bath & WC area, within the unit.
- 2) It is mandated that the base material of the structure should be of concrete.
- 3) The proposal must be complete in all due respects of constructability, like BOQ, specifications, working drawings,

structural drawings, unit plan, site plan, permissible area allotments etc.

4) Special consideration will be given to solutions outlining the cost advantage, the sustainability aspects, the structural longevity, the environmental considerations & impact.

5) Extra points will be given for using solar energy as the alternative source of power, recommending local materials & labor for construction, minimizing the carbon footprint, increasing the green cover and such like.

6) Services and utilities like water supply and storage, plumbing, sewage & drainage, electricity etc. must be accounted for by the designer.

7) A general timeline of construction (speed at which construction can be achieved) must be mentioned.

8) The total cost per unit should not exceed Rs. 3.00 lac. (Exclusive of land cost.)

CATEGORY 2B-

Competition Brief for Rural Poor (Built):

Step 1:

- 1) Project feasibility details.
- 2) Details of site selected and workings establishing effective and optimum use of the same.
- 3) The minimum parcel of land selected should not be less than 0.5 sqkm.
- 4) The project should not be older than five (5) years from the date of announcement of the competition.

Step 2:

- 1) To submit a built unit not more than 25 sq. mtr, including the bath & WC area, within the unit.
- 2) It is mandatory that the base material of the structure is primarily concrete.
- 3) The proposal to be complete in all due respects of constructability, like BOQ, specifications, working drawings, structural drawings, unit plan, site plan, permissible area allotments etc.
- 4) Special consideration will be given to solutions outlining the cost advantage, the sustainability aspects, the structural longevity, the environmental considerations & impact.

5) Extra points will be given for using solar energy as the alternative source of power, recommending local materials & labor for construction, minimizing the carbon footprint, increasing the green cover and such like.

6) Services and utilities like kitchen space, water supply and storage, plumbing, sewage & drainage, electricity etc. must be accounted for by the designer.

7) The design proposed should be sensitive to the geographical, cultural and social context in which it is realized.

8) The total cost per unit should not exceed Rs. 3.00 lac. (Exclusive of land cost.)

9) Details of the time taken for completion of the project must be mentioned.

10) Details of any special new mode of construction or technology applied that impacted the project success must be mentioned.

Specific Instruction for All Participants
Strict adherences to the PMAY (Rural Guidelines)

Broad Criteria to be Maintained:

1. Feasibility: No blue sky ideas, only buildable solutions.
2. Scalable: Considering the quantum of requirement, the proportions in which the design solution can be scaled should be duly presented.

3. Speed of Construction: The race against time to meet the Government's deliverable is tight. To provide housing for such a large population makes the speed of construction an important factor for the proposal.

4. Local Material & Labour: The solution should be specific to use and application of regional material and local labour.

5. Hygiene & Sanitation: Housing in such proportions will inflict tremendous pressure on existing utilities and systems. Hence, incorporating a prior consideration is a must.

6. Sustainable Benchmarks: The design solution must set new sustainable benchmarks with respect to materials, performance, longevity and impact. These value additions will be treated in retrospect with the cost of construction.

7. Community Involvement: Due consideration to the quality of life, social spaces and regional nuances are to be made while proposing a housing solution.

Special Note: Correct and complete adherence to the guidelines and parameters as outlined in the PMAY (Urban & Rural Schemes) are to be maintained at all times.



EVALUATION CRITERIA



The Jury will evaluate entries on the basis of a balanced approach between interpretation of the concept through the medium of local materials including cement/concrete, design aesthetics, technical excellence and ability to inspire a global audience. Weightage will be given on the due translation of the following parameters:

1. Clarity in Interpretation of the Competition Intent

- The entry/entries will be judged on how its design has the ability to resolve the existing housing impasse of the nation and provide for a specific solution.
- The entry/entries will be judged on the fact that it is a 'value housing proposal' and not a 'low-cost housing' specification, as quality of materials is to be maintained at all times.
- The entry/entries will be judged on the originality of the idea in which the concept is translated. Participating team/s are encouraged to establish the intent to communicate the same through the support of visual and textual materials.
- The entry/entries will be judged on the basis of the longevity of its concept so that its relevance continues to apply and inspire.

2. Speed of Construction

- The entry/entries will be assessed on how fast and accurately the proposal can come to life and provide for the people under consideration.
- Special considerations will be given to proposals specifying the details of the technology & material used in quantities, which can aid

faster project management methods to ensure speed of construction.

3. Balance between Aesthetics and Structural Efficiency within Given Area

- The entry/entries will be assessed on how it strikes an appropriate balance between form, function, sustainability, longevity, aesthetics, finish and detailing.
- Across all stages, the Jury will take into consideration how the entry/entries pay heed to structural efficiency, stability and building performance in the long term.

4. Innovation in Material Usage

- The entry/entries will be evaluated on how it has presented cement/concrete as the main medium through innovation, in association with any other local material. This can address aesthetic expression, structural systems, fabrication or even finishing methods.
- The entry/entries will also be judged on the basis of how the primary material has been used in juxtaposition with other mediums (e.g. wood, glass, technology etc.) to highlight concrete's properties and present the overall idea with ingenuity.

5. Responsibility to Economy & Environment

- The entry/entries will be judged on how the design maintains a responsibility towards the environment in terms of fabrication, transportation, assembly & use of green methods and the design's ability to sustain green processes and practices by the occupants of the houses.

- While resources and budget are listed as main criteria of evaluation, the entry/entries will be assessed on how it can be constructed within reasonable means to avoid unjustified expenditure.
- The economy of construction will be major criteria. While, the per-sq.ft. range is mentioned, participants are encouraged to pursue the lowest possible cost.



SUBMISSION CRITERIA

Submission Format:

Please note that the entry/entries must be submitted as per the mentioned guidelines for it to be considered valid. Any missing or incomplete information will be considered as a basis of disqualification.

- The entry/entries must be submitted before 11:59 pm on 14th January, 2018.
- The entry/entries can only be submitted online.
- Please plan accordingly to ensure that the entry/entries are uploaded within the given deadline. Any submission/s delivered later than the above mentioned date will be disqualified, regardless of the reason.
- The entry/entries should not have the name of the participating team/s at any place. Any non-compliance will render the entry/entries as disqualified.
- Each entry needs to be sent in separately with its unique identification code.
- Please do not combine multiple entries in the same entry.
- Each independent entry must be compliant with the following guidelines;

Submission Format Visual Representation:

Engineer and architect team/s will be required to submit detailed drawings (plans, elevations, sections, 3D finished views etc.) and all relevant documents that will explain their idea from the

point of construction.

This must be composed on a maximum of two A1 panels (2mb).

If the participating engineering and architect team/s choose to submit a 3D walkthrough, they must do so in FLV/AVI formats only.

File size should not exceed 150 mb.

Submission Format Synopsis:

- The participating engineer and architect team/s must accompany the visual representation with a description of the concept in a synopsis of not more than 750-1000 words.
- The synopsis must be in English. Any handwritten notes or regional dialect texts will be deemed invalid.
- The synopsis must be typed in size 12 Calibri font and be double-spaced.
- The synopsis must address the following issues:
 - Establishing the Context – The issue at hand, problem identified and its scope, potential hurdles in resolution
 - Establishing the Concept - Description of the solution proposed, the approach and its appropriateness
 - Establishing the Idea - Description of the merits of the idea vis-à-vis the evaluation criteria
- Brief profile of the participating engineer and architect team with full contact details.

Please note:

Copyrights to the winning entries will remain with the competition organizer, who also reserves the right to publish the entries in any media it sees fit.

Competition entries must not infringe the copyright of any other work, either in whole or in part. Do not use images from magazines, books, or websites. If copyright infringement is found, the proposal in question will be disqualified.