



Inviting proposals from agencies, architects, engineers under “Alternate House Building Technologies” scheme for preparation of Design Concept of cluster of houses for different geo-climatic regions using proven cost-effective technologies

There is an imperative need to find ways by which housing can be made affordable for the various stakeholder groups. Affordable housing, within the socio-economic context, would need major interventions to reduce the cost of construction using conventional technologies and construction practices, by using appropriate and cost effective technologies. These alternate options should also lead to safe, strong, durable, functional, acceptable housing. There are many time tested and proven technological options, which can lead to housing costs to be brought down by 15 to 40%. However, due to various reasons, there is a major gap between the availability of these technology options and the accessibility of the same in the housing delivery process.

Building Materials & Technology Promotion has planned to develop design concepts using cost-effective materials in different geo-climatically conditions of a cluster of 60 houses, community centre, school and shops/kiosks. Once developed these design concepts will be given to State Governments for their commitment to take it forward through demonstration construction by BMTPC.

i. Design Concepts

Designs would be developed using proven cost effective materials and technologies for projects of affordable housing of 60 dwelling units each, with a Community Centre, a primary school and shop/kiosk so as to make the design most suitable for existing cluster programmes of urban social housing being undertaken by the States. Sets of Designs would be developed for the following six zones of the country.

North Eastern Zone	Assam, Manipur, Meghalaya, Nagaland, Tripura, Arunachal Pradesh, Mizoram, Sikkim.
North Zone (Hilly)	Jammu & Kashmir, Himachal Pradesh, Uttaranchal, Western U.P.
North Zone (Plain)	Punjab, Haryana, Union Territory of Chandigarh, National Capital Region Delhi
West Zone	Rajasthan, Gujarat & Madhya Pradesh
East Zone	West Bengal, Bihar, Orissa & Eastern U.P.
South Zone	A.P., Karnataka, Tamil Nadu, Kerala, Goa and U.T. of Daman & Diu, Dadra & Nagar Haveli, Andaman & Nicobar Island, Lakshadweep, Pondicherry.

ii. Salient Features of the Design

House Designs would be prepared, taking material characteristics into account for suitability, for

- single storey or G+3/multi-storeyed structures or both features that would be kept in mind in finalizing Design concepts would include the requirement of Green Buildings;
- the dimensional requirement laid down in National Building Code 2005;
- Multi-hazard resistance and the structural and fire requirement of NBC 2005, as applicable;
- at least two habitable rooms, separate kitchen and bathroom with minimum carpet area of 25m²;
- aesthetics, ventilation and adequate storage space.

Cluster design would include water, drainage & Rain water harvesting, Renewable energy resources minimum 15% common greens as well as the promotion of social cohesiveness.

Time Frame of completing the design concept:

Maximum three months from the day of approval by BMTPC.

iii. Scope of Work

- a. Providing all required drawings of buildings, details for implementation for design alternatives.
- b. Making all required estimates for approval.
- c. Cost comparison with the conventional building technologies of the region.
- d. Attending a maximum of four meetings of one day each.

The individual/firm/companies may send the proposal alongwith bio-data/profile with experience in cost-effective technologies and send the proposal indicating the regions (one or more) at the following address. The proposals should include the concept with professional fee (not exceeding 2% of the cost) and time frame. The proposal may also indicate if they willing to impart training to artisans and documentation of the project, once executed.

The Council reserves the right to accept or reject any proposal/s without assigning any reason thereof.

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