

CATEGORY

PROVEN TECHNOLOGY CATEGORY : GHTC-INDIA



PRODUCT / TECHNOLOGY



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Technology Detail

PREFABRICATED SANDWICH PANEL SYSTEM

Alternate to conventional RCC framed /load bearing structure



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Video

CONTACT DETAILS

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BRIEF

Rising EPS (Beads) Cement Panels are lightweight composite wall, floor and roof sandwich panels made of thin fibre-cement/calcium silicate board as face covered boards and the core material is EPS granule balls, adhesive, cement, sand, fly ash and other bonding materials in mortar form. The core material in slurry state is pushed under pressure into preset molds.

Once set, it shall be moved for curing and ready for use with RCC or steel support structure beams and pillars. These panels are primarily used as walling material but can also be used as floor and roof panels. These are non-load bearing panels to be used with structural support frame only.

Precast Hybrid Building System comprising of ready-to-install EPS Cement Panels for walling & Pre-Stressed Hollow Core slabs for roofing.





SALIENT FEATURES

- The panels being light weight, helps in easy installation, transportation & reduction in construction time.
- The EPS core has high thermal & acoustics efficiency, which can further be customized to deliver specific thermal insulation requirements.
- Buildings made using panels are lightweight but are at the same time rigid due to two sheets of reinforced plaster that interact to create an enveloping 'shell' of the whole structure. This aspect makes the building seismic & wind resistant.
- Building with any geometric shape/complex architectural drawings can be constructed.

ECONOMIC ASPECTS

- Cost saving in time and labour.
- Increase in carpet area upto 11%.





SUSTAINABILITY ASPECT

- Water saving due to dry construction.
- High compressive strength,
- Dry shrinkage.
- Environment friendly and non-toxic.

SUITABILITY AND AVAILABILITY

- Suitable for all kind of climate conditions.
- Two plants at Pune and Nagpur so far and third one is in the process so that the product can be available all over India.

LIMITATIONS, IF ANY

- These panels can be used load bearing walling up to G+1. For higher stories, panels can be used with additional structural support, steel or RCC depending on the design.
- Door-Window openings & MEP all needs to be pre-planned before execution.

MARKET LINKAGES

- Available Pan India.





MAJOR PROJECTS

- Light House Project, Indore (1024 flats) (under construction).
- Projects at various locations in the Country.
- Tower- 15 NBCC Apartments, New Kidwai Nagar, New Delhi.
- Hotel Atrio Boutique Resort, New Delhi.
- Nanning Ivgang int. Center (1.5 million sq. Meters panels), China
- 4 Floor Apartment Building, Nagpur

CERTIFICATION/INDIAN STANDARD/ENDORSEMENT

- Shortlisted by MoHUA under GHTC- India as proven technology.
- Approved by BMTPC under PACS.
- CPWD – Schedule of Rates.
- NBCC India Limited – Approved new technology (Mandatory use).
- MIT - Test certification and approval.
- ILT – London.
- ISO 9001-2008
- CE, GB/T on ISO.

