

CATEGORY

POTENTIAL TECHNOLOGY – ACCELERATION : GHTC-INDIA



PRODUCT / TECHNOLOGY



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Technology Detail

STAY-IN- PLACE FORMWORK MADE WITH GREEN FORM POLYSTYRENE

Alternate to conventional brick/block masonry wall



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Video

CONTACT DETAILS

M/s Green Forms Pvt. Ltd.

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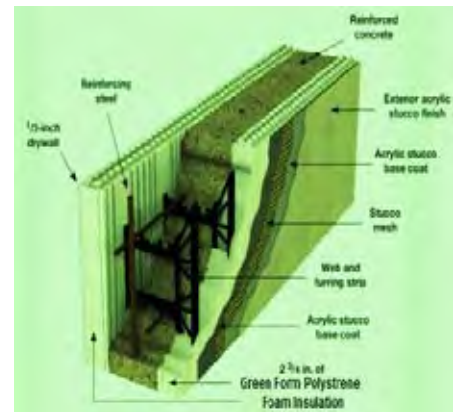
GREEN FORM'S PVT. LTD.

BRIEF

Green Forms is a system of stay-in-place expanded polystyrene formwork for reinforced concrete, made with Green Form Polystyrene Resin, a patented product from recycled thermoplastic. It is an alternate to conventional walls with cast in-situ pouring of concrete along with steel reinforcement.

SALIENT FEATURES

- The panels being light weight, helps in easy installation, transportation & reduction in construction time
- The stay in place formwork system almost eliminates the curing requirement of the concrete
- Buildings have high seismic resistance
- System can be engineered to bear greater loads and can withstand wind speeds up to 200-300 mph.
- Excellent thermal performance due to very low thermal conductivity of Polystyrene.
- The existing buildings can be retrofitted on interior or exterior face, with significant operational energy savings in heating & cooling (upto 70%)



ECONOMIC ASPECTS

There is upfront cost reduction of minimum 20 percent. Being factory-produced component, the cost competitiveness depends on economy of scale.





SUSTAINABILITY ASPECTS

The large generation of plastic wastes is creating a threat to the environment. On the other hand, natural building materials are getting scarce day by day. In this scenario, the conversion of plastic waste plastics to polymer to be used as building material, which is light weight & thermally insulating also, hugely contributes to sustainable construction.

SUITABILITY AND AVAILABILITY

- Green Forms consisting of insulating permanent formworks filled with cast-in-place reinforced concrete, is suitable for all kind of climates.
- Strategic Partnership with Engineering Procurement Companies and Building Solution Providers on PAN India basis.
- Styrene Monomer, a virgin polymer to be used with recycled waste plastic is presently imported. The indigenous production of Styrene Monomer is expected by Indian Oil Corporation Limited at Panipat by the year 2025.

LIMITATIONS, IF ANY

- EPS must be of fire resistant grade

MARKET LINKAGES

- Presently, strategic partnerships are being worked out.

MAJOR PROJECTS

- Pilot Plant established at this stage.

CERTIFICATION/INDIAN STANDARD/ ENDORSEMENT

- Start-up India (DPIIT) Recognised: DIPP 956: 2016
- Indian Patent Granted: 2017
- Top 25 Companies in Global Cleantech Innovation Programme: UNIDO & MSME: 2017
- Awarded as one of the Potential Technologies under Affordable and Sustainable Housing Accelerator (ASHA – India), Global Housing Technology Challenge- India, organized by MoHUA, GoI

