

CATEGORY

PROVEN TECHNOLOGY CATEGORY : GHTC-INDIA



PRODUCT / TECHNOLOGY



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Technology Detail

**LIGHT GAUGE STEEL FRAMING (LGSF) HYBRID WITH
PRE-ENGINEERED STEEL BUILDING**

Alternate to conventional RCC framed /load bearing structure



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Video

CONTACT DETAILS

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BRIEF

Cold Formed Light Gauge Steel Frame (LGSF) Construction Technology has light gauge Steel frames hybrid with Pre-engineered Steel (as per design requirement) as structural member with various options of walling (Cement fibre board, concrete panels etc. with insulating material as core) & flooring (in-situ concrete on deck sheet etc.)



SALIENT FEATURES

- Dead Load of LGSF is around 40% of the conventional brick wall dead load which in turns saves cost of construction in foundation & overall weight of building
- More sustainable than conventional construction as minimum use of cement and natural resources like sand, water, aggregates etc. in the whole structure
- Almost nil wastage of material at site and in factory.
- Can be designed for any Thermal, Structural and Fire performance.
- Reduced labour requirement for erection work as the components are light in weight.
- Less consumption of electricity as well as fuels in the work of erection at site.
- Majority of components are pre-fabricated & light and hence reduction in the time of execution at site by more than 20-40 %.

ECONOMIC ASPECTS

- Less dead load of material reduces expenditure on heavy structure.
- Less manpower requirement.
- Reduced execution time.
- Reduced wastages at site and factory.



SUSTAINABILITY ASPECT

- Reduced power usage.
- Minimum usage of natural resources.

SUITABILITY AND AVAILABILITY

- Suitable for extreme temperatures from – 500C to + 500C and hence successfully used in 128 Countries all across the globe.

LIMITATIONS, IF ANY

- As the technology is fast track, cash flow maintenance becomes difficult, if payment milestones are as per conventional construction.

MARKET LINKAGES

- Products are available at Surat factory and can be transport across the Country.
- Other finishing materials are readily available pan India.



MAJOR PROJECTS

- Light House Project (LHP) at Agartala (under construction)
- 20 small housing projects at various locations in Kerala awarded by Kerala Life Mission.

CERTIFICATION/INDIAN STANDARD/ENDORSEMENT

- Indian standard (IS)/ ASTM Codes are available for various components
- Design vetted by IITs/NITs etc.
- IS 801 -1975

