CLAIMS

1. A method of constructing an inter terrace house on a land located between two terrace houses comprising the steps of:

(i) clearing the land to form a site in which the terrace house having a front end and a back end is to be built;

(ii) computing dimensions and construction requirements of the inter terrace house for prefabrication of customized pieces of Pre Cast Beams, Pre Cast Columns and other Pre Cast pieces and Pre Fabricated Prefinished Volumetric Construction (PPVC) modules;

(iii) assigning each customized Pre Cast piece and PPVC module an unique identifier and a designated location for installation in the inter terrace house;

(iv) installing a super structure with lengths to hold a lifting device on each length of the super structure; wherein the lifting device is moveable along the length of the super structure; and wherein the lifting device picks the customized Pre Cast piece and PPVC module in a sequenced manner to construct the inter terrace house.

2. A method of constructing an inter terrace house on a land located between two terrace houses comprising the steps of:

(i) clearing the land to form a site in which the terrace house is to be built;

(ii) installing Pre Cast Beams and Pre Cast Columns along each length of the inter terrace house to form a super-structure;

(iii) installing a track having a length on the Pre Cast Columns along each length of the super structure;

(iv) assembling and installing a lifting device moveable along the length of the track;

(v) programming the lifting device to identify, pick up, move a designated customized Pre Cast piece or a PPVC module according to a programmed sequence being installed at a designated location thereof;

(vi) picking up and installing each customized Pre Cast piece and the PPVC module in accordance with the programmed sequence, from one end of the land to another end of the land, and from one level upwards to another level, until both levels are completed; and

(vii) repeating step (vi) until the structure of the inter terrace house is completed.

3. The method of constructing an inter terrace house as set forth in Claim 1 or Claim 2, wherein the customized Pre Cast pieces and PPVC modules being employed are based on detailed requirements thereof, including the weight of the inter terrace house, designated location of installation, sequence of installation which are individually programmed for fabrication, pick up by the lifting device and installation at the designated location thereof.

4. The method of constructing an inter terrace house as set forth in any of the preceding claims, wherein the construction is programmed and sequenced beginning from a 1st level and from a back end of the inter terrace house.

5. The method of constructing an inter terrace house as set forth in claim 1, wherein the customized Pre Cast pieces and PPVC module are planned and manufactured based on the planned dimensions of the inter terrace, and each customized Pre Cast piece and PPVC module is assigned an unique identifier and the specific designated location in the inter terrace being constructed.

6. The method of constructing an inter terrace house as set forth in any of the preceding claims, wherein each customized Pre Cast piece and PPVC module are identified by the unique identifier thereof, picked up from place of manufacture, transported to the site and placed in a specific designated location in the inter terrace being constructed.

7. The method of constructing an inter terrace house as set forth in Claim 1 or Claim 2, wherein a lifting device is installed on a track placed along the length of the Pre Cast Beams of the super structure, and are movable along said tracks.

8. The method of constructing an inter terrace house as set forth in Claim 5, wherein the lifting device is equipped with cameras and sensors for remote operation of identifying, picking each customized Pre Cast piece or PPVC module, and moving the picked up piece to the designated location thereof, in accordance to a programmed sequence for construction and installation.

9. The method of constructing an inter terrace house as set forth in Claim 5, wherein after completion of the installation of all the customized Pre Cast pieces and PPVC modules, the lifting device is dismantled and the tracks are removed.

10. A system of constructing an inter terrace house on a site, wherein the system computes the dimensions and construction requirements and building programme for the construction of the inter terrace house,

said construction requirements then further work out into a plurality of customized pre cast pieces, including Pre Cast Beams, Pre Cast Columns, Pre Cast Walls, Pre Cast Floors

and Pre fabricated Prefinished Volumetric Construction (“PPVC”) modules and each Pre Cast piece is assigned an unique identifier and a designated installation location;

said customized Pre Cast pieces and PPVC modules are being made and delivered to the site of the inter terrace house being constructed, in accordance to a building programme; and

said customized Pre Cast pieces and PPVC modules are identified by a lifting device, picked up and installed in a designated installation location in accordance to a building programme,

wherein the customized Pre Cast pieces and PPVC modules are installed in a sequence starting from a first level upwards and from the back of the site, until all the customized pre cast pieces are installed in the designated installation location thereof, creating a structure of the inter terrace house.

11. The system of constructing an inter terrace house on a site as set forth in Claim 10, wherein the dimensions and construction requirements of the inter terrace house are computed for the prefabrication of customized Pre Cast Beams, Pre Cast Columns, Pre Cast Walls and Pre Cast Floors and Pre fabricated Prefinished Volumetric Construction (“PPVC”) modules, each of the customized Pre Cast Beam and Pre Cast Column, Pre Cast Wall and Pre Cast Floor and PPVC module being assigned an unique identifier and a programmed designated location for its installation in the inter terrace house, said system further comprising the following:-

a Super Structure of customized Pre Cast Beams and Pre Cast Columns along each length of the inter terrace house;

a track on the customized Pre Cast Beams along the length of the Super Structure;

a lifting device movable along said track;

a plurality of customized Pre Cast Walls, Pre Cast Floors, Pre Cast Columns and Pre Cast Beams and PPVC Modules;

each of the customized Pre Cast Column, Pre Cast Beam, Pre Cast Wall and Pre Cast Floor and PPVC Module is prefabricated according to the computed dimensions and construction requirements of the inter terrace house;

each customized Pre Cast Column, Pre Cast Beam, Pre Cast Wall and Pre Cast Floor and PPVC Module transported to the site and picked up by the lifting device according to a programmed sequence based on the assigned unique identifier and designated location in the inter terrace; and

each customized Pre Cast Column and Pre Cast Beam, Pre Cast Floor and Pre Cast Wall and PPVC Module installed in its programmed designated location;

wherein the system works out the quantities of pieces of customized Pre Cast Beams, Pre Cast Columns, Pre Cast Floor, Pre Cast Wall and PPVC Modules required to be prefabricated for the construction of the inter terrace house, the timing of delivery of each customized piece, arranging their delivery, pick up and installation by the lifting device, until each piece is installed in its designated location.

12. The system as set forth in claim 11, wherein the lifting device is remotely controlled by an operator on the site.

13. The system as set forth in claim 11, wherein the lifting device moves along the track on each side of the customized Pre Cast Beams in the site.

14. The system as set forth in claim 11, wherein the lifting device is programmed to pick a customized Pre Cast piece or a PPVC Module in a programmed sequence based on the assigned unique identifier and programmed designated location in the inter terrace.

15. The system as set forth in Claim 11, wherein the lifting device has one or more video cameras and sensors to enable the operator to identify and pick a customized Pre Cast piece or a PPVC Module in accordance to the programmed sequence of installation and guide the movement of the customized Pre Cast piece or PPVC Module which has been picked up to its designated location for installation.

16. The system as set forth in Claim 11, wherein the lifting device is powered by one or more electrical batteries or by electrical cables from an electrical source.

17. The system as set forth in Claim 10 or Claim 11, wherein the customized Pre Cast pieces or PPVC Module is provided with an unique identifier which contains a designated installation location within the inter terrace house.

18. The system as set forth in Claim 17, wherein said unique identifier is a QR code, bar code or any other identification code.

19. The system as set forth in Claim 17, wherein said unique identifier further contains a unique designated installation location thereof in the inter terrace.

20. A lifting device as used with the method and system of any of the preceding claims.