J-up Construction System for Erecting Prefabricated Houses

The J-up Construction System is a construction method for erecting two story prefabricated houses. This system differs from the conventional construction method where the second floor is constructed on top of the first floor. In the J-up construction system, the roof framing is first completed on a continuous footing. Then the roof is jacked up and the second floor is constructed below it. Jacks then push the second floor and roof up and the first floor is constructed. The system uses no cranes and no scaffolding. In Japan, jack-up systems usually have been developed for large and special buildings, but many of these systems are still at the trial level. The J-up system provides a rational and effective method of construction for ordinary house buildings. The system reduces cost and improves worker productivity.

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