

Semi-Prefab Concrete Construction for Quality, Economy and Speed.

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Tanzania and most of the developing countries share the problems of poverty, high population growth rate and acute housing shortage, providing housing to the masses at affordable cost is a colossal task with which most of the governments in these countries hardly in a position to cope. This factor necessitates adopting appropriate building technology which could lead to economy and speed in construction and attainment of acceptable quality in building construction. In this thesis an attempt has been made to appraise the quality, economy and speed of in-situ concrete construction, and to assess the extent to which enhanced quality, economy and speed can be achieved through adoption of semi-prefab concrete construction techniques. The study involved, preparation, testing and assessment of selected semi- prefab systems, and design and analysis of model buildings. The results on the performance of the semi-prefab systems developed showed that, the systems are practical, economical and structurally suitable. The study on model building shows that the semi-prefab concrete construction technique can lead to quality, economy and speed in building construction. Finally, proposals of areas of further research and need for the government intervention to promote this technology by training of the personnel involved in construction industry, setting standards and encouraging prefab elements producers have been suggested.