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(57) Abstract :  
 An extendable ladder along with a remote control system to be used at construction sites is an efficient ladder in terms of both money and time. The proposed invention is a robotic based ladder that can elongate or shortened according to the need of the user. The ladder is essential to do the tasks such as painting or designing the lengthier walls. It is the responsibility of the civil engineer to provide safer equipments to the labor for carrying out their work efficiently. The proposed ladder is compact and can be easily carried to various sites. The remote control mechanism will help to setup the ladder to the required position whereas in the existing system of clamps the setup itself consumes a day. Also the proposed invention will reduce the number of labors required to complete the task thus saving money and time.

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