

Dwelling System – Future Needs

The Dwelling system is required to be constructed such that cost effective extensions are possible in future to cater for additional needs.

Based on the problem description the couple wants to have a Dwelling system to accommodate themselves with 3 small kids at present and in next 10 years elderly parents.

The following issues are to be addressed in the design of the house to provide a cost-effective solution based on the current and future needs:

Utilization issues:

1. Young children/toddlers can be accommodated in small rooms but when the children grow a bigger room might be required.
2. For young kids the rooms should be near to parents/couples room thus on the same floor. Whereas privacy is to be considered for teenagers.
3. Based on the size of family a small kitchen might be sufficient at present and same can be constructed.
4. For young children play area is to be made outside house for outdoor activity. Permanent structure for play area is to be avoided rather trampolines, football mesh etc. can be used.
5. Parking for 1 or 2 cars is to be considered with the scope of extension in future. Might be open parking for more cars and other garage equipments.
6. The wiring and water connections for the building need to cater for future extension of building in second floor.
7. The strength of the building needs to cater for future extension i.e. 2nd floor
8. With more members in future, might be bigger kitchen to be considered in 2nd floor.
9. Elderly parents may have issues in climbing stairs so either the parents need to use the first floor or wheel chair accessibility is to be considered for 2nd floor.
10. Big rooms to be constructed on 2nd floor to accommodate need of teenagers and couples.
11. Separate washing areas in each floor is to be considered
12. Each room is to be planned with attached washrooms thus the water pipes/connections have to be pre-planned.
13. Accessibility to garage from inside house using wheelchair.
14. Separate way out from both the floors is to be planned to avoid disturbance to elderly parents and teenagers (require privacy).
15. For get-togethers and parties, spacious hall might be required in future.
16. The dinning area need to be spacious to cater for more family members in future.
17. Security aspects in terms of theft and fire need to be planned for both floors. Easy access to exit doors in case of fire is to be planned for both floors.