Green Building Design Concept â€“ an Introduction

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Green building designs is the most sought after technology in the construction industry. Architects, Builders, Designers are all getting into construction using â€œGreen Building Designâ€• Green Building Design.

Green building concept basically came into existence to manage the construction process in an eco-friendly manner. This means following a construction process in a way that is environmentally safe and helps in optimum utilization of resources through buildingâ€™s life cycle.Right from designing site, construction documentation, Development plans, Operations every aspect has to be created siting to design, construction, operation, maintenance, renovation, and demolition. This requires excellent communication and co-ordination within each department at all construction phases.

Why Green Building?

Water Efficiency, Energy Efficiency and Material Efficiency are main functions of Green Building. Green Building concept came into existence keeping mind the need of controlling pollution. The thought process originated in the United States sustainable development can be traced to the energy (especially fossil oil) crisis and the environment pollution concern in the 1970s. The green building movement in the U.S. originated with the necessity of having an eco-friendly environment. Green Building also provides advantages in terms of collaboration and synergy between multiple phases of construction. Apart of environmental friendly construction Green Building also offers economic and social advantages to the society. Green Building Design is slowly and gradually spreading its wings across the globe. It is very vital to connect the green building concept to the construction. You can convert the existing building into an environment friendly sustainable design using Green Building Design concept or design a new building all together. Green Building Design integrates the building life cycle with design and construction practices.

Green Building often significantly stresses on using natural resources, techniques which are environmental friendly which ultimately eliminates the hazards of using resources that increases pollution in the environment. Materials used for building construction should be wood, permeable concrete, packed gravel etc. More plants and trees should be used in the sites closer to the building; water storage area should be well defined while construction takes place.

Every country, province or state has its own design or standard codes so the Green Building Design will vary. These techniques and systems are constantly improvising however the main principle is still the same: Green Building concept works on site efficiency, Structural Design, Environmental quality enhancement, Waste reduction system etc.

Green building concepts and practices are increasing steadily and so have the organizations offering Green Building Services. There are a number of firms which have set standards and construction codes along with regulations to aid Green Building Design concept. These codes are written keeping in mind the construction laws, environment and climate and comfortability of local Government body.

Several Rating systems exist across the globe. LEED â€“ in US and Canada is one of the most known ones. This system basically helps in determining the level of performance of a particular structure in a typical environment. They grant points and credits to buildings that fall in the category of environmental friendly buildings. The higher the number of credits the more is the credibility of the construction firm.

With proper co-ordination and systematic integration, the benefit of green building design will give a much better effect.

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