

Buildings, Architecture, Architect, Character, Profession Vs Business

Jit Kumar Gupta

Buildings- Role and Importance

- **Buildings are structures used for human activities**
- **All human activities are performed in buildings-living, working, care of body & spirits**
- **Buildings are consumers of energy (50%)**
- **Buildings are consumers of resources**
- **Buildings are generators of waste**
- **Buildings have large carbon footprints**
- **Buildings are responsible for global warming**
- **Buildings are determinant of global sustainability**
- **Buildings are integral part of human journey since inception**
- **Buildings shall continue to be part of human growth and development**
- **Buildings are responsible for creating manmade environment- vital for human growth**
- **Buildings are living organism**

Buildings- Role and Importance

- **Buildings vital for human living**
- **Buildings provide optimum/worst living conditions**
- **Buildings make people healthy/sick**
- **Buildings critical because majority of human life spent in buildings**
- **A well designed school makes learning easy and more meaningful**
- **A well designed house makes people happy and healthy**
- **A well designed hospital can cure patients quickly**
- **A well designed shopping mall can increase sale and profits**
- **Large volume of buildings yet to be constructed**
- **India needs to construct annually 700-900 msqmts of built space --to meet increased needs of ever rising population for housing, education, healthcare, industry, institutions, trade and commerce, entertainment , leisure etc.**

Need for State of Art Buildings

- **The buildings in which we**
- **live,**
- **work, and**
- **play**
- **protect us from nature's extremes**
- **yet they also affect our health and environment in countless ways.**
- **--All building activities including ;**
- **designing, construction, use, re-furbishment , demolition and re-construction--- directly/indirectly impact Cost , environment and energy**
- **-Considerable reduction of Cost /energy / green house gas emission by built environment possible-- by changing the way buildings are planned, designed, constructed and operated**

What is Architecture

- **Art and Science of designing and creating buildings**
- **Profession of designing buildings, open spaces , communities and other physical structures**
- **Architecture is both process and product of planning, designing, constructing buildings and other physical structures**
- **General term used to describe:**
 - Buildings and other physical structures**
 - style of design and method of construction of buildings**
 - knowledge of art , science and humanities**
 - design activities of an Architect spans from micro to macro level**

Who is an Architect

Derived from --Greek Word-Arkhi-tecton (Head- Builder)

- Architect- is a person who plans, designs and reviews the construction of Buildings
- A person who is Registered, licensed or otherwise authorized to use the title of Architect and practice architecture in a province/area
- Who possesses
 - skill in art of designing buildings to meet clients needs
 - Knowledge about aesthetics as well as practical considerations
 - --adequate skill and knowledge to originate, design and plan to arrange and supervise construction of buildings
- Role of Architect extends from field of technical knowledge to business management

- **Role of an Architect**

Role of Architect

- **Role of Architect includes:**

- designing buildings
- helping client to define/ freeze scope of work
- selection of site
- preparing feasibility reports
- creation of new design ideas
- carrying out building audit
- identifying/engaging consultants; specialists, contractors,
- coordinating design team– structure, mechanical, electrical, air-conditioning, services
- answerability to client for– Design, Construction, Materials, Building
- close and fiduciary relationship with client
- based on Trust, faith and goodwill

Role of Architect

- **Role of Architect not limited to creation of new ideas/designs but also include**
 - Preparation of contract documents**
 - Calling of tenders**
 - **Selection of contractors**
 - award of work to contractors/ specialists**
 - inspection of work**
 - **Selection of materials**
 - --**finding solution to problems encountered during construction/execution of work**
 - --**maintaining quality of work**
 - --**rejecting defective work**
 - -**ensuring construction of building as per approved drawings**
 - -**Execution of work as per contract**
 - -**approving payments of work as per contract**
 - --**resolving disputes between owner and the contractor**
 - --**ensuring completion of work**
 - -**obtaining completion and possession certificates for buildings**

- **Profession &
Character of
Architecture**

Profession of Architecture

- Profession calls for having persons/men of;
- **INTEGRITY**
- **BUSINESS CAPACITY**
- **ARTISTIC ABILITY**
- Architect --entrusted with financial undertaking --in which his honesty of purpose should be above suspicion
- As Professional advisor to his client---his advice must be absolutely disinterested/unbiased
- -while exercising judicial functions --between client and contractor- -must act impartially
- has moral responsibility to
- - Profession,
- --society
- -environment
- --Associates
- -Subordinates
- - professional institutions

Character of Profession

- Every profession involves :
 - i. **Mastery of specific activity**
 - ii. **Possessing adequate knowledge and understanding**
 - iii. **Prolonged period of study/practice**
 - iv. **Membership of a professional body/association**
 - v. **Prescribed code of conduct**
 - vi. **Social responsibility**
- **All professionals including Architect, Engineer, Doctor, Lawyer –required to :**
 - **provide selfless/disinterested services best to their capability to client-professionals have to---**
 - **promote welfare of community**
 - **has social responsibility**
 - **preserve environment**
 - **Minimizing depletion of resources**
 - **--promoting sustainable development**
 - **following local legal framework/ building bye-laws**

Profession Vs Occupation

- **Factors differentiating Profession and Other Occupations:**
 - i. **Qualification**- specific knowledge
 - ii **Membership of a professional institute**- for improved and latest professional knowledge and growth
 - iii **Standards of Ethics**- governing the conduct, duties and obligations
 - iv **Code of Conduct**
 - v **Attitude towards profit**- not primary but only incidental
 - vi **Social Responsibility**- commitment to society and its improvement
- **In case of Business and Trade—**
 - i **Qualification – not mandatory** – for starting/running
 - ii **Profit**-- Prime motive is to earn **Profit**
 - iii **Membership** of a professional body --not essential
 - iv **Relationship**--No direct contact between manufacturer and user/client- no flexibility to cater to individual requirement of user
 - v. **Ethics and code of conduct** --usually defined by government guidelines
 - vi **Accountability** --Low level of -as compared to Architectural services
 - vii. **Social responsibility**- not mandatory, no professional advice rendered