

GOVERNMENT POLYTECHNIC FOR GIRL'S AHMEDABAD

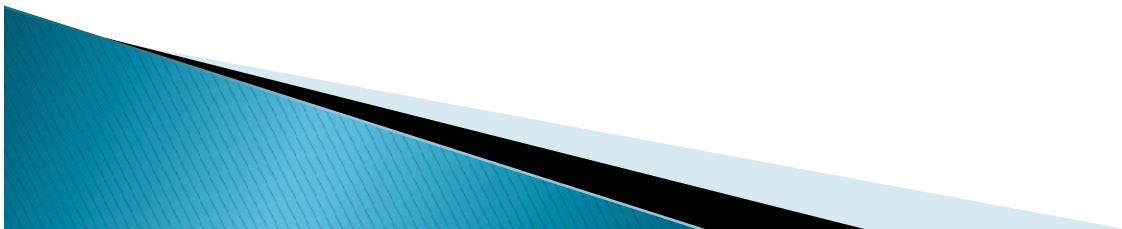


CIVIL ENGINEERING DEPARTMENT

**“CONSTRUCTION PROJECT MANAGEMENT”
(3360603)**

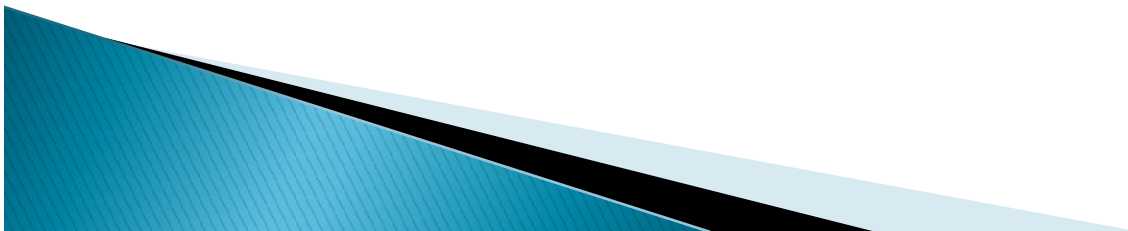
Construction Project Management

- ▶ Prepared by:-
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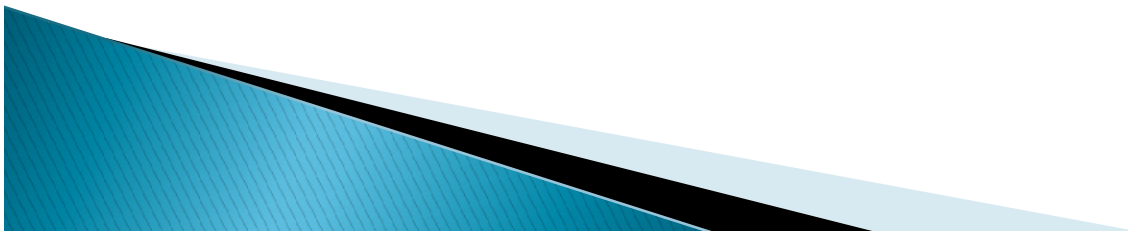
Construction Project Management

Project management is the art and science of mobilising and managing people , materials, equipment and money to complete the assigned project work on time within budgeted costs and specified technical performance standards.



OBJECTIVES

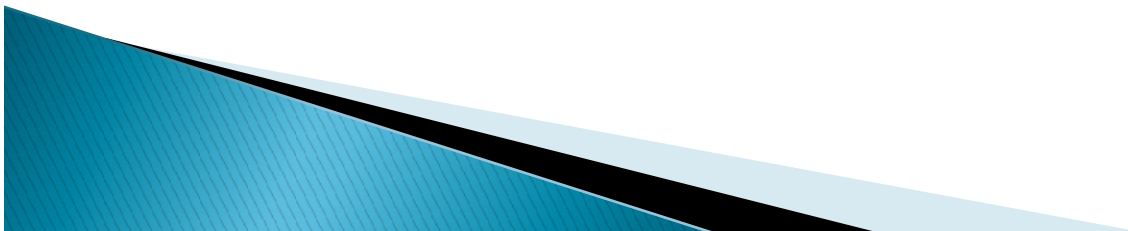
- ▶ Completing the work within specified time and budget
- ▶ Evolving a reputation for high quality workmanship
- ▶ Providing safe working conditions for staff and workers
- ▶ Motivating people to give their best
- ▶ Creating an organization that works as a team



FUNCTIONS

The function of construction management are :

1. Planning and scheduling
2. Organizing
3. Staffing
4. Directing
5. Controlling
6. Co-ordination
7. Communicating



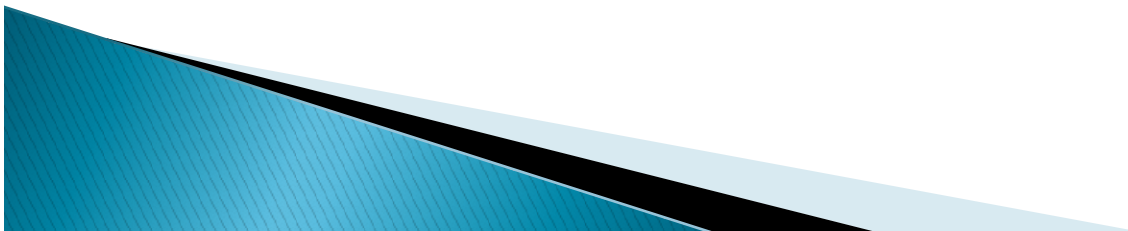
ORGANIZING

- ▶ Dividing the work into component activities
- ▶ Designing job structures
- ▶ Defining targets and responsibilities
- ▶ Delegating specific tasks to individuals
- ▶ Establishing organizational chart for better coordination

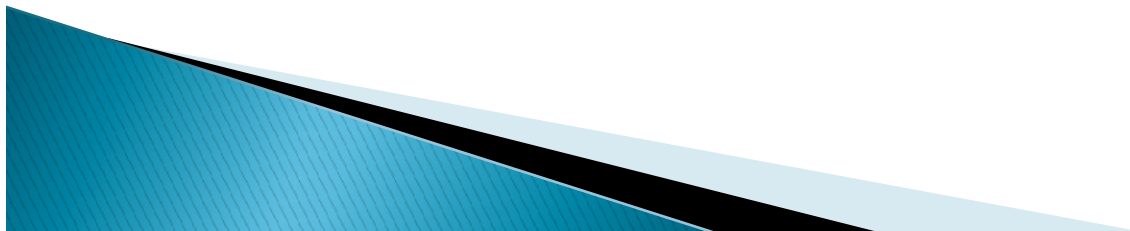
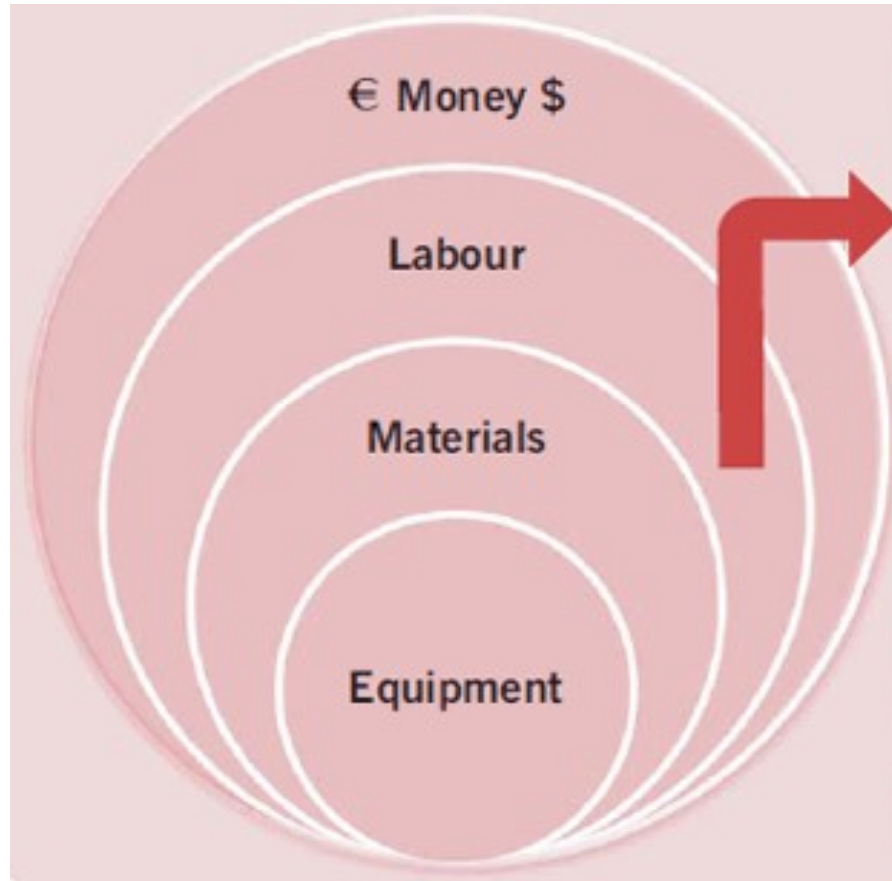


DIRECTING & LEADING

- ▶ Providing effective leadership
- ▶ Motivating participants behavior
- ▶ Communicating instructions and orders
- ▶ Providing suitable climate for subordinate's development



CONSTRUCTIONAL RESOURCES

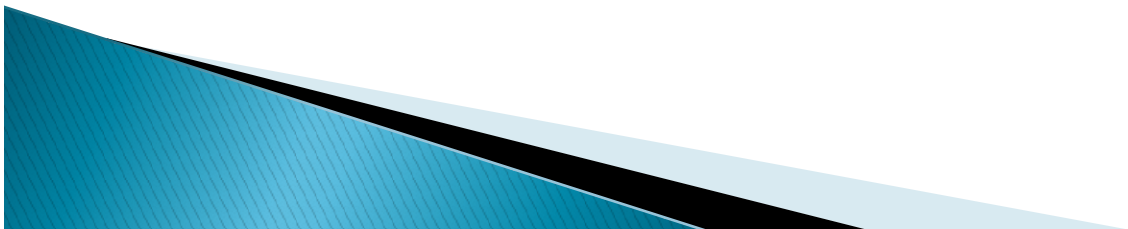


MEN

- ▶ Work force – man power

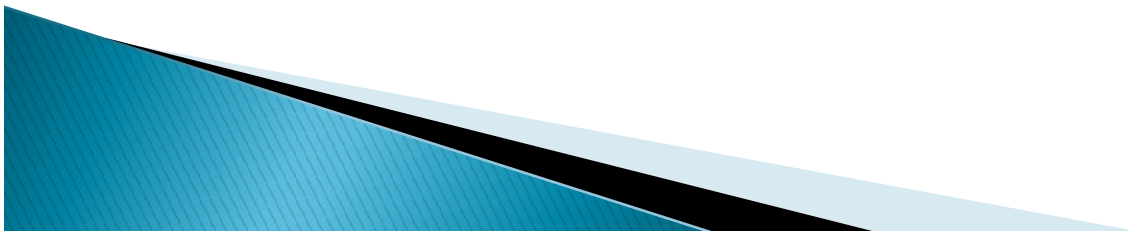


- ▶ Technical and managerial personnel (organization)



FUNCTIONS OF ORGANIZATIONS

- ▶ Give responsibilities to the group of employee.
- ▶ Provides adequate communication.
- ▶ Demarcates authority, responsibilities, and duties of each group and employee.
- ▶ Coordinates and controls activities of group and individual to achieve common objective.



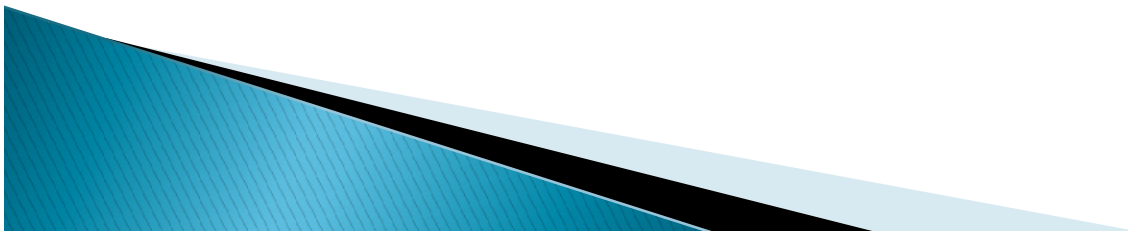
MATERIALS

- ▶ Brick, stone, timber, cement, water, aggregate, paint, electrical fittings, lime, sand etc.
- ▶ Material schedule showing quantity, quality and time of delivery should be prepared with reference to work schedule
- ▶ Plan the adequate supply of material



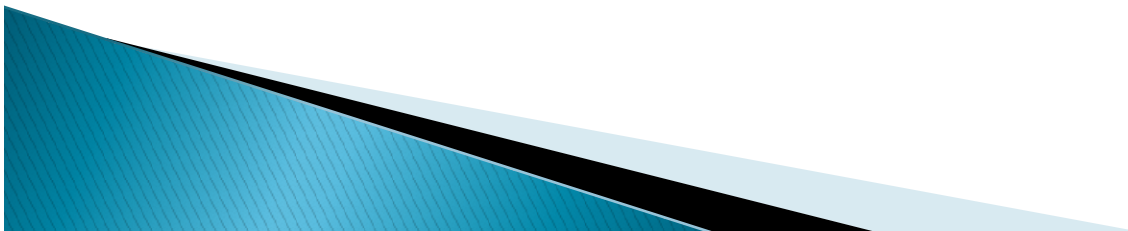
EQUIPMENT

- ▶ Requirements depends on type of project.
- ▶ Batching plant, mixer, trucks, vibrator, tractors, excavators and cranes etc.
- ▶ Equipment schedule or calendar should be prepared.



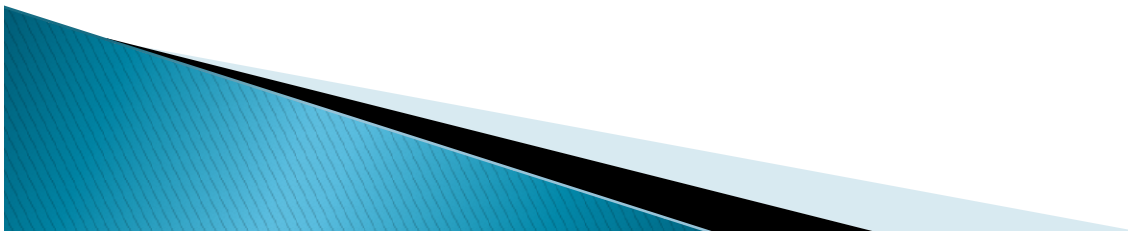
MONEY

- ▶ Most important resource
- ▶ All other resources depends on availability of funds.
- ▶ So financial resources should be planned very carefully



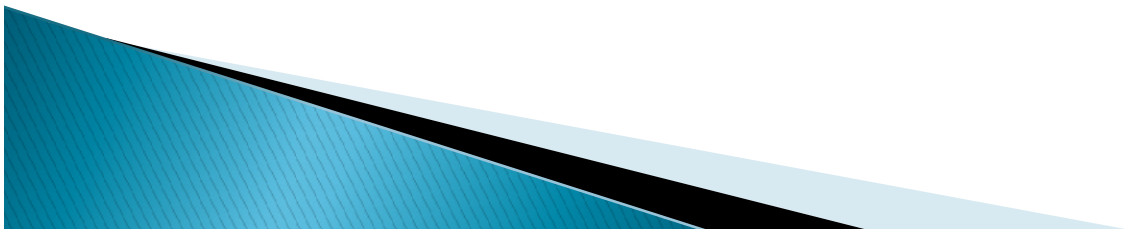
BUSINESS PROMOTER/ CLIENT

- ▶ _Also called the client, he is the potential owner of the construction facility. It is he who sponsors the work, finances their construction and utilizes the facility constructed. Client may be a govt. body, a public or private enterprises. Construction work can be executed through clients own organization or through contractors



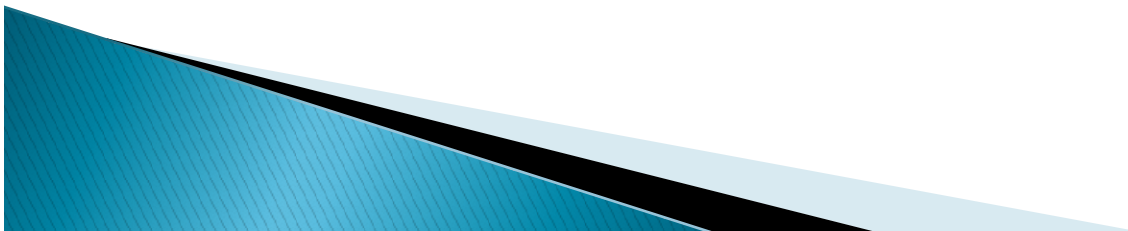
CONSTRUCTION MANAGEMENT CONSULTANTS

- ▶ The emerging trend these days is to hire these consultants for rendering certain services on contract basis. Generally task assigned includes –
 - ▶ (a) Project feasibility study, including cost estimates.
 - ▶ (b) Site survey and soil investigation.
 - ▶ (c) Estimating, initial planning and budgeting
 - ▶ (d) Scrutiny and coordination of design and drawing work .
 - ▶ (e) Processing prequalification of construction agencies, tendering and awarding contracts to the successful bidder.
 - ▶ (f) Designing project organization for executing works and developing standard operating procedures and systems.
 - ▶ (g) Developing detailed construction plans, project schedules and performance measuring standards.



CONTRACTORS

- ▶ Construction contractors form the backbone of the construction business as they execute most of the construction work. In the competitive construction business, the contractor generally tends to specialize in particular area of construction.



Thank you

