

## **PLANT LAYOUT**

After the process flow diagrams are completed and before detailed piping, structural and electrical design can begin, the layout of process units in a plant and the equipment within these units must be planned. This layout can play an important part in determining construction and manufacturing cost and thus must be planned carefully with attention being given to future problems that may arise. Since each plant differs in many ways there is no ideal plant layout. However proper layout in each case will include arrangement of processing area, storage area, and handling areas in efficient coordination and with regard to such factors as follows.

- 1) New site development or addition to previously developed site
- 2) Type and quantity of products to be produced
- 3) Type of process and process control
- 4) Operational convenience and accessibility
- 5) Economic distribution of utilities and services
- 6) Type of building and building code requirements
- 7) Health and safety consideration
- 8) Waste disposal problems
- 9) Auxiliary equipments
- 10) Space available and space required
- 11) Roads and railway roads

Plant lay out is as shown in the next page.