PROCESS FLOW DIAGRAM

Source Steel angles from external sources → **Steel angles are processed in the factories** → **Galvanization**

Data given

Landed cost of angles – Rs/MT (all 16 varieties, to all 3 plants)

Production Plan

The requirement for each steel angle type, for each project, can be found out by adding up the values in each row of the **Existing Production Plan** table.

Data given

Conversion cost – Rs / MT (Cost of producing 1 MT of processed angles, apart from the input costs)

Operations like cutting, punching, drilling & welding are done here.

Capacity of each plant (**Constraint**)

Wastage Cost – 4.5% of Net Weight produced. Scrap realization – 50% of what is generated.

Note: Net weight = Wt. of the total produce after removing wastages.

Every particular type of angle to be supplied to a project should be manufactured at a single location (**Constraint**)

Data given

The processed steel angles are dipped into hot zinc metal and are dried to prevent corrosion.

Cost of Zinc - Rs/MT of steel angles produced.

Zinc Consumption – 4.10% of Net Weight (of steel angles).

Transportation (Outbound Logistics) ← **Packaging**

Data given

Transportation Costs – Rs (from 1 Factory to 1 Project site) – **Assuming that the prices are given per MT of steel angles transported.**

Taxes applicable for products transported (From 1 factory to 1 Project site)

Data given

Packaging Cost – Rs/MT for each plant, per MT of angles packed.