**Sets**

Plants = [‘Plant 1’, ‘Plant 2’]

Cities = [‘City 1’, ‘City 2’, ‘City 3’]

**Parameters**

demand­city = supply of a city ∈ Cities

costplant, city = the cost of the path from a plant ∈ Plants to a city ∈ Cities

lowerBoundplant, city = the lower bound of each path from a plant ∈ Plants to a city ∈ Cities

upperBoundplant, city = the upper bound (capacity limit) of each path from a plant ∈ Plants to a city ∈ Cities

**Decision Variables**

flowplant, city the flow of goods from a plant ∈ Plants to a city ∈ Cities

**Objective Function**

**Constraints**