# Data Description for instance of Truck to Door Assignment Problem with temporary storage under consideration

## 1 Data Description

The data in the file titled: 4-10-4-10 contains data for the scenarios where 10 inbound and 10 outbound trucks have to be assigned to 4 inbound and 4 outbound docks. Te data in the file is pertinent to the model presented in the paper and contains all the variables required inthe given model.

$in\_t$ is no of inbound trucks

$out\_t$ is no of outbound trucks

$in\_d$ is no of inbound service docks

$out\_d$ is no of outbound service docks

$cost$ operational cost corresponding to a unit pallet movement from inbound service dock to outbound service dock

$transfertime$ operational time required for movement from inbound service dock to outbound service dock

$penalty$ penalty cost based per unit item to be transfer from inbound truck to outbound truck

$palletstransferred$ no of pallets required for the movement of items, based on the quantity of material to transfer from inbound truck to outbound truck

$quantity$ quantity of material to transfer from inbound truck to outbound truck

$in\_arr\_dep$ Arrival and Departure time of inbound trucks

$out\_arr\_dep$ Arrival and Departure time of outbound trucks

$Ch$ Material handling cost per unit item to be held in the temporary storage area.

The file also contain self explanatory pre-processing variables

$v$ Pre-processing variable to show if the quantity requires material handling

$si$ Pre-processing variable for sequence of inbound trucks

$so$ Pre-processing variable for sequence of outbound trucks

Please note that this file only contains the data used for the deterministic model, the variation of uncertain data is calculated on the basis of this model, however, this does not define the uncertain parameters used in the paper.