EM- CASE STUDY 4 (CONCEPTUAL): ANALYSIS OF TRANSPORTATION MODELS.

A dairy firm has three plants located throughout a state. Daily milk production at each plant is as follows:

Plant 1: 6 million litres; Plant 2: 1 million litres and Plant 3: 10 million litres

Each Day the firm must fulfil the needs of its distribution centres. Minimum requirement at each centre is as follows:

Distribution centre 1: 7 million litres

Distribution centre 2: 5 million litres

Distribution centre 3: 3 million litres

Distribution centre 4: 2 million litres

Cost of shipping one million litres of milk from each plant to each distribution centre is given in the following table in hundreds of BDT.

Plant	**DC1**	**DC2**	**DC3**
Plant 1	2	3	11
Plant 2	1	0	6
Plant3	5	8	15

Find its initial basic feasible solution by North-west Corner rule, and Least Cost method.