เฉลยบทที่ 2

1

So final optimal solution is arrived.

	D_1	D_2	D_3	Supply
S_1	1 **(40)**	2	2 **(80)**	120
S_2	4	3 **(160)**	5	160
S_3	1 **(110)**	2 **(60)**	3	170
Demand	150	220	80	

The minimum total transportation cost $= 1 \times 40 + 2 \times 80 + 3 \times 160 + 1 \times 110 + 2 \times 60 = 910$

2

So final optimal solution is arrived.

	D_1	D_2	D_3	Supply
S_1	5 **(3500)**	10	10	3500
S_2	25	30 **(2000)**	20 **(2000)**	4000
S_3	5 **(1000)**	10 **(3000)**	15	4000
Demand	4500	5000	2000	

The minimum total transportation cost $= 5 \times 3500 + 30 \times 2000 + 20 \times 2000 + 5 \times 1000 + 10 \times 3000 = 152500$

3

Iteration 6				
	D1	D2	D3	Supply
S1	3 5	3 15	5 2	13
S2	2 2	5	6 13	20
S3	Path error			15
Demand	20	15	13	

Total Minimum Cost

(3 × 5 + 3 × 15 + 5 × 2 + 2 × 2 + 6 × 13)

152

4

Iteration 5					
	D1	D2	D3	D4	Supply
S1	75 100	120	55 150	150	100
S2	100 25	55 110	150	60 115	25
Demand	100	110	150	115	

Total Minimum Cost

(75 × 100 + 55 × 150 + 100 × 25 + 55 × 110 + 60 × 115)

31200

5

Iteration 4				
	D1	D2	D3	Supply
S1	1 3	3 15000	2 15000	20000
S2	Path error			30000
Demand	15000	20000	15000	

Total Minimum Cost

(1 × 3 + 3 × 15000 + 2 × 15000)

75003

6

Iteration 9						
	D1	D2	D3	D4	D5	Supply
S1	8 15	10	15	13	19	15
S2	28	25	20	14	10 20	20
S3	22	20	18 10	13 12	15 3	25
S4	0 1	0 17	0 4	0	0	22
Demand	16	17	14	12	23	

Total Minimum Cost

(8 × 15 + 10 × 20 + 18 × 10 + 13 × 12 + 15 × 3 + 0 × 1 + 0 × 17 + 0 × 4)

701