

Ans 6

10	12	19	11
5	10	7	8
12	14	13	11
8	15	11	9

Step 2

Modify the matrix by subtracting smallest element of each row by all element of that row

0	2	9	1
0	5	2	3
1	3	2	0
0	7	3	1

Step 21

Modify the matrix by subtracting smallest element of each column by all element of that column.

0	0	7	1
0	3	0	3
1	1	0	0
0	5	1	1

Step III

2	0	7	2
3	3	0	3
1	1	2	0
0	5	1	1

Step IV

Route	Cost (Rs)
A - II	12
B - III	7
C - IV	11
D - I	8
	<u>38</u>

Ans.

Minimum cost is Rs. 38