* Basic Fearible Solution by North-West Corner Mothal

8. Four fractories A, B, C and D produce sugar and the
capacity of each factory is given below: Factory
A produces 10 tons of sugar and B produces
8 tons of sugar, C produces 5 tons of sugar
and that of D is 6 tons of sugar The sugar and
B produces demands in three markets X, Y and Z
The demand of market X is 7 tons, that of
market Y is 12 tons and the demand of market 2
is 4 tons. The following matrix gives the
transportation cost of 1 ton of sugar from each
factory to the destinations. Find the Optimal
Solution for least cost transportation cost

- {					
		cost	in Rs	per ton	
	Factories	(X100) Markets			Availability in tons.
		X	У	2	
1	A	4	3	2	10
	В	5	6	1	8
	С	6	4	3	5
	P	3	5	4	6
	Requirement in tons	7	12	4 -	23 29
-					

Here Eb is greater than Ed hence we have to open a dummy column whose requirement constrant is b so that Eb = Ed

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	×	Y	2	Dummy	Availability	
	71	2		-		
A	714	3	-2	0	103	
		0				
В	5	8 6	Annual desirate agency desperate experience of the control of the	O 13	8	
		1				
C	6	4	43		54	
		,		1		
D	3	5	4	60	6	
Requirement	X	12	34	6	29	
		9				

Fotal Cost of transportation is :-

- - 101

i. Total cost of transportation is 101

Hence Basic Feasible Solution using North-West corner method is 101