

$$Z_{min} = 1.52 X_{14} + 1.60 X_{16} + 1.40 X_{16} + 1.70 X_{16} + 1.63 X_{25} + 1.55 X_{16} + 1.57 X_{16} + 1.30 X_{16} + 5.15 X_{16} + 5.69 X_{16} + 6.13 X_{16} + 5.80 X_{16} + 6.13 X_{16} + 6.1$$

S.T.,

$$x_{14} + x_{15} + x_{16} = 93$$

 $x_{24} + x_{25} + x_{26} = 88$
 $x_{34} + x_{35} + x_{36} = 95$
 $x_{34} + x_{24} + x_{34} = x_{44} + x_{45} + x_{46} + x_{$

$$X_{4A} + X_{5A} + X_{6A} = 30$$
 $X_{4B} + X_{5B} + X_{6B} = 57$
 $X_{4C} + X_{5C} + X_{6C} = 48$
 $X_{4C} + X_{5C} + X_{6D} = 91$
 $X_{4E} + X_{5E} + X_{6E} = 48$
 $X_{4F} + X_{5F} + X_{6F} = 2$