

2945000 2700000 2790000;

END

Lampiran 2. Lingo 15.0 Solution Report

Global optimal solution found.

Objective value:	0.6213814E+12
Objective bound:	0.6213761E+12
Infeasibilities:	0.1862645E-08
Extended solver steps:	14228177
Total solver iterations:	19022064
Elapsed runtime seconds:	2863.62

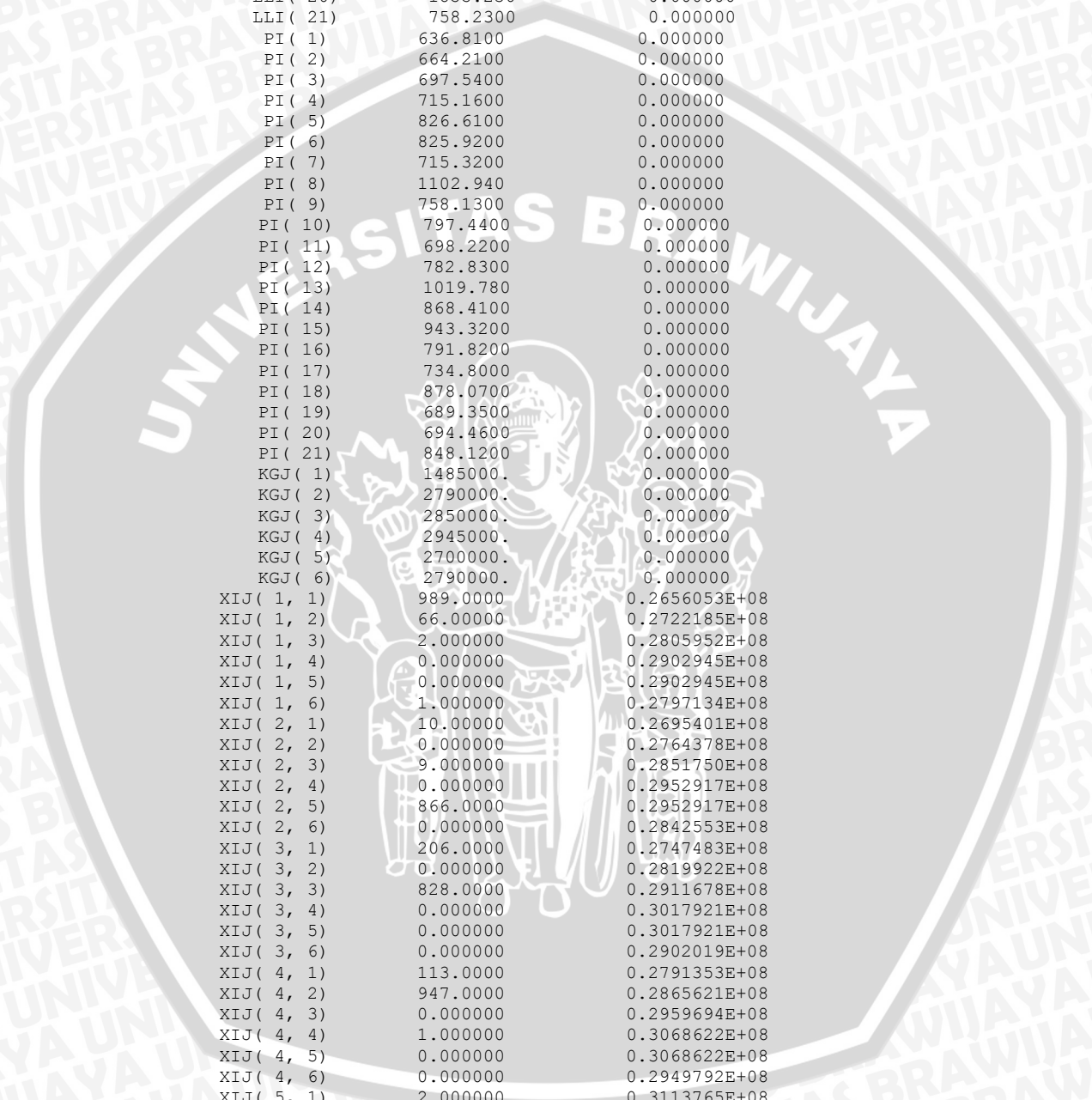
Model Class: MILP

Total variables:	378
Nonlinear variables:	0
Integer variables:	126

Total constraints:	280
Nonlinear constraints:	0

Total nonzeros:	1134
Nonlinear nonzeros:	0

Variable	Value	Reduced Cost
E	1384.650	0.000000
CI (1)	0.1414308E+08	0.000000
CI (2)	0.1400228E+08	0.000000
CI (3)	0.1423695E+08	0.000000
CI (4)	0.1434125E+08	0.000000
CI (5)	0.1501920E+08	0.000000
CI (6)	0.1574930E+08	0.000000
CI (7)	0.1298535E+08	0.000000
CI (8)	0.1668800E+08	0.000000
CI (9)	0.1470630E+08	0.000000
CI (10)	0.1548855E+08	0.000000
CI (11)	0.1264638E+08	0.000000
CI (12)	0.1335040E+08	0.000000
CI (13)	0.1554070E+08	0.000000
CI (14)	0.1512350E+08	0.000000
CI (15)	0.1559285E+08	0.000000
CI (16)	0.1272460E+08	0.000000
CI (17)	0.1472090E+08	0.000000
CI (18)	0.1199450E+08	0.000000
CI (19)	0.1147300E+08	0.000000
CI (20)	0.1043000E+08	0.000000
CI (21)	0.1371545E+08	0.000000
DI (1)	10430.00	0.000000
DI (2)	10430.00	0.000000
DI (3)	9908.500	0.000000
DI (4)	9908.500	0.000000
DI (5)	10430.00	0.000000
DI (6)	11994.50	0.000000
DI (7)	10951.50	0.000000
DI (8)	10430.00	0.000000
DI (9)	10638.60	0.000000
DI (10)	10742.90	0.000000
DI (11)	10430.00	0.000000
DI (12)	9387.000	0.000000
DI (13)	11473.00	0.000000
DI (14)	11212.25	0.000000
DI (15)	10951.50	0.000000
DI (16)	10169.25	0.000000
DI (17)	10821.13	0.000000
DI (18)	8865.500	0.000000
DI (19)	10951.50	0.000000
DI (20)	11473.00	0.000000
DI (21)	7822.500	0.000000
LLI (1)	1623.730	0.000000
LLI (2)	885.6700	0.000000
LLI (3)	1034.340	0.000000
LLI (4)	1061.950	0.000000
LLI (5)	1274.340	0.000000
LLI (6)	1540.890	0.000000
LLI (7)	943.0100	0.000000
LLI (8)	460.8800	0.000000



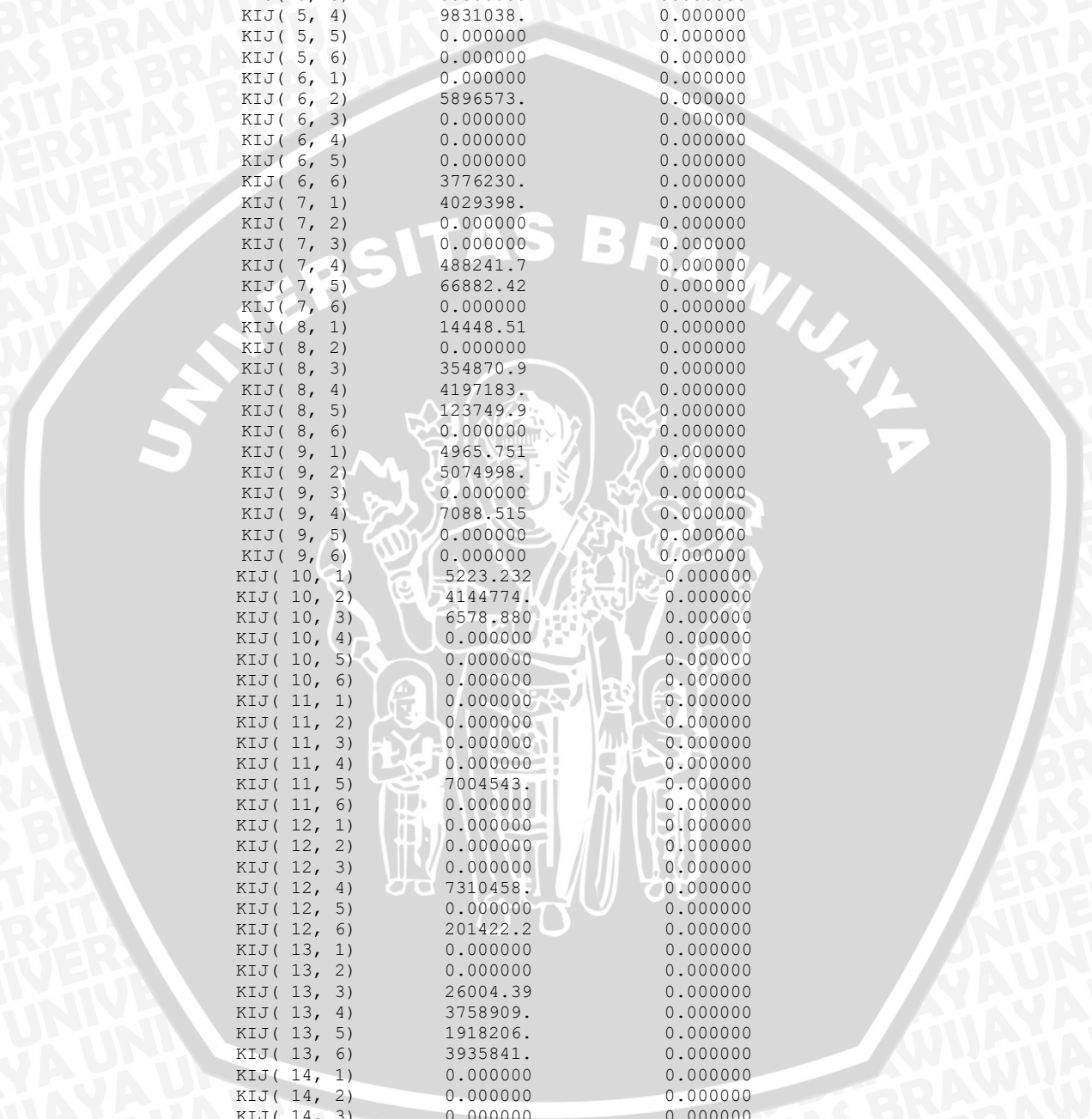
LLI (9)	919.6500	0.000000
LLI (10)	714.6900	0.000000
LLI (11)	1056.640	0.000000
LLI (12)	1014.160	0.000000
LLI (13)	1054.520	0.000000
LLI (14)	1099.120	0.000000
LLI (15)	480.0000	0.000000
LLI (16)	1322.130	0.000000
LLI (17)	465.1300	0.000000
LLI (18)	417.3400	0.000000
LLI (19)	504.4200	0.000000
LLI (20)	1855.230	0.000000
LLI (21)	758.2300	0.000000
PI (1)	636.8100	0.000000
PI (2)	664.2100	0.000000
PI (3)	697.5400	0.000000
PI (4)	715.1600	0.000000
PI (5)	826.6100	0.000000
PI (6)	825.9200	0.000000
PI (7)	715.3200	0.000000
PI (8)	1102.940	0.000000
PI (9)	758.1300	0.000000
PI (10)	797.4400	0.000000
PI (11)	698.2200	0.000000
PI (12)	782.8300	0.000000
PI (13)	1019.780	0.000000
PI (14)	868.4100	0.000000
PI (15)	943.3200	0.000000
PI (16)	791.8200	0.000000
PI (17)	734.8000	0.000000
PI (18)	878.0700	0.000000
PI (19)	689.3500	0.000000
PI (20)	694.4600	0.000000
PI (21)	848.1200	0.000000
KGJ (1)	1485000.	0.000000
KGJ (2)	2790000.	0.000000
KGJ (3)	2850000.	0.000000
KGJ (4)	2945000.	0.000000
KGJ (5)	2700000.	0.000000
KGJ (6)	2790000.	0.000000
XIJ (1, 1)	989.0000	0.2656053E+08
XIJ (1, 2)	66.00000	0.2722185E+08
XIJ (1, 3)	2.000000	0.2805952E+08
XIJ (1, 4)	0.000000	0.2902945E+08
XIJ (1, 5)	0.000000	0.2902945E+08
XIJ (1, 6)	1.000000	0.2797134E+08
XIJ (2, 1)	10.00000	0.2695401E+08
XIJ (2, 2)	0.000000	0.2764378E+08
XIJ (2, 3)	9.000000	0.2851750E+08
XIJ (2, 4)	0.000000	0.2952917E+08
XIJ (2, 5)	866.0000	0.2952917E+08
XIJ (2, 6)	0.000000	0.2842553E+08
XIJ (3, 1)	206.0000	0.2747483E+08
XIJ (3, 2)	0.000000	0.2819922E+08
XIJ (3, 3)	828.0000	0.2911678E+08
XIJ (3, 4)	0.000000	0.3017921E+08
XIJ (3, 5)	0.000000	0.3017921E+08
XIJ (3, 6)	0.000000	0.2902019E+08
XIJ (4, 1)	113.0000	0.2791353E+08
XIJ (4, 2)	947.0000	0.2865621E+08
XIJ (4, 3)	0.000000	0.2959694E+08
XIJ (4, 4)	1.000000	0.3068622E+08
XIJ (4, 5)	0.000000	0.3068622E+08
XIJ (4, 6)	0.000000	0.2949792E+08
XIJ (5, 1)	2.000000	0.3113765E+08
XIJ (5, 2)	0.000000	0.3199607E+08
XIJ (5, 3)	0.000000	0.3308341E+08
XIJ (5, 4)	1272.000	0.3434243E+08
XIJ (5, 5)	0.000000	0.3434243E+08
XIJ (5, 6)	0.000000	0.3296895E+08
XIJ (6, 1)	0.000000	0.3314644E+08
XIJ (6, 2)	978.0000	0.3400415E+08
XIJ (6, 3)	0.000000	0.3509058E+08
XIJ (6, 4)	0.000000	0.3634855E+08
XIJ (6, 5)	0.000000	0.3634855E+08
XIJ (6, 6)	561.0000	0.3497622E+08
XIJ (7, 1)	860.0000	0.2730674E+08

XIJ(7, 2)	0.000000	0.2804959E+08
XIJ(7, 3)	0.000000	0.2899054E+08
XIJ(7, 4)	73.00000	0.3008005E+08
XIJ(7, 5)	10.00000	0.3008005E+08
XIJ(7, 6)	0.000000	0.2889149E+08
XIJ(8, 1)	2.000000	0.3819473E+08
XIJ(8, 2)	0.000000	0.3934012E+08
XIJ(8, 3)	39.00000	0.4079095E+08
XIJ(8, 4)	407.0000	0.4247085E+08
XIJ(8, 5)	12.00000	0.4247085E+08
XIJ(8, 6)	0.000000	0.4063823E+08
XIJ(9, 1)	1.000000	0.2964757E+08
XIJ(9, 2)	917.0000	0.3043488E+08
XIJ(9, 3)	0.000000	0.3143214E+08
XIJ(9, 4)	1.000000	0.3258685E+08
XIJ(9, 5)	0.000000	0.3258685E+08
XIJ(9, 6)	0.000000	0.3132716E+08
XIJ(10, 1)	1.000000	0.3128772E+08
XIJ(10, 2)	712.0000	0.3211585E+08
XIJ(10, 3)	1.000000	0.3316481E+08
XIJ(10, 4)	0.000000	0.3437941E+08
XIJ(10, 5)	0.000000	0.3437941E+08
XIJ(10, 6)	0.000000	0.3305440E+08
XIJ(11, 1)	0.000000	0.2650298E+08
XIJ(11, 2)	0.000000	0.2717974E+08
XIJ(11, 3)	0.000000	0.2814653E+08
XIJ(11, 4)	0.000000	0.2911332E+08
XIJ(11, 5)	1056.000	0.2911332E+08
XIJ(11, 6)	0.000000	0.2795317E+08
XIJ(12, 1)	0.000000	0.2806966E+08
XIJ(12, 2)	0.000000	0.2882842E+08
XIJ(12, 3)	0.000000	0.2991236E+08
XIJ(12, 4)	983.0000	0.3099631E+08
XIJ(12, 5)	0.000000	0.3099631E+08
XIJ(12, 6)	31.00000	0.2969557E+08
XIJ(13, 1)	0.000000	0.3684250E+08
XIJ(13, 2)	0.000000	0.3783092E+08
XIJ(13, 3)	3.000000	0.3924296E+08
XIJ(13, 4)	388.0000	0.4065500E+08
XIJ(13, 5)	198.0000	0.4065500E+08
XIJ(13, 6)	465.0000	0.3896055E+08
XIJ(14, 1)	0.000000	0.3303695E+08
XIJ(14, 2)	0.000000	0.3387866E+08
XIJ(14, 3)	0.000000	0.3508110E+08
XIJ(14, 4)	170.0000	0.3628355E+08
XIJ(14, 5)	0.000000	0.3628355E+08
XIJ(14, 6)	929.0000	0.3484061E+08
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XIJ(15, 2)	0.000000	0.3571988E+08
XIJ(15, 3)	0.000000	0.3702605E+08
XIJ(15, 4)	19.00000	0.3833222E+08
XIJ(15, 5)	460.0000	0.3833222E+08
XIJ(15, 6)	1.000000	0.3676481E+08
XIJ(16, 1)	0.000000	0.2823229E+08
XIJ(16, 2)	0.000000	0.2899977E+08
XIJ(16, 3)	0.000000	0.3009616E+08
XIJ(16, 4)	0.000000	0.3119255E+08
XIJ(16, 5)	34.00000	0.3119255E+08
XIJ(16, 6)	1288.000	0.2987688E+08
XIJ(17, 1)	0.000000	0.2938738E+08
XIJ(17, 2)	0.000000	0.3020133E+08
XIJ(17, 3)	0.000000	0.3111703E+08
XIJ(17, 4)	0.000000	0.3223621E+08
XIJ(17, 5)	465.0000	0.3223621E+08
XIJ(17, 6)	0.000000	0.3101528E+08
XIJ(18, 1)	4.000000	0.2780344E+08
XIJ(18, 2)	0.000000	0.2877609E+08
XIJ(18, 3)	0.000000	0.2987033E+08
XIJ(18, 4)	0.000000	0.3120773E+08
XIJ(18, 5)	413.0000	0.3120773E+08
XIJ(18, 6)	0.000000	0.2974875E+08
XIJ(19, 1)	0.000000	0.2532217E+08
XIJ(19, 2)	0.000000	0.2608578E+08
XIJ(19, 3)	504.0000	0.2694484E+08
XIJ(19, 4)	0.000000	0.2799480E+08
XIJ(19, 5)	0.000000	0.2799480E+08
XIJ(19, 6)	0.000000	0.2684939E+08

XIJ(20, 1)	0.000000	0.2474399E+08
XIJ(20, 2)	0.000000	0.2551326E+08
XIJ(20, 3)	1855.000	0.2637869E+08
XIJ(20, 4)	0.000000	0.2743643E+08
XIJ(20, 5)	0.000000	0.2743643E+08
XIJ(20, 6)	0.000000	0.2628253E+08
XIJ(21, 1)	0.000000	0.2810057E+08
XIJ(21, 2)	0.000000	0.2904005E+08
XIJ(21, 3)	687.0000	0.3009697E+08
XIJ(21, 4)	71.00000	0.3138875E+08
XIJ(21, 5)	0.000000	0.3138875E+08
XIJ(21, 6)	0.000000	0.2997953E+08
TIJ(1, 1)	629805.1	0.000000
TIJ(1, 2)	42029.46	0.000000
TIJ(1, 3)	1273.620	0.000000
TIJ(1, 4)	0.000000	0.000000
TIJ(1, 5)	0.000000	0.000000
TIJ(1, 6)	636.8100	0.000000
TIJ(2, 1)	6642.100	0.000000
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TIJ(2, 3)	5977.890	0.000000
TIJ(2, 4)	0.000000	0.000000
TIJ(2, 5)	575205.9	0.000000
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TIJ(3, 1)	143693.2	0.000000
TIJ(3, 2)	0.000000	0.000000
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TIJ(3, 4)	0.000000	0.000000
TIJ(3, 5)	0.000000	0.000000
TIJ(3, 6)	0.000000	0.000000
TIJ(4, 1)	80813.08	0.000000
TIJ(4, 2)	677256.5	0.000000
TIJ(4, 3)	0.000000	0.000000
TIJ(4, 4)	715.1600	0.000000
TIJ(4, 5)	0.000000	0.000000
TIJ(4, 6)	0.000000	0.000000
TIJ(5, 1)	1653.220	0.000000
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TIJ(6, 2)	807749.8	0.000000
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TIJ(6, 4)	0.000000	0.000000
TIJ(6, 5)	0.000000	0.000000
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TIJ(7, 1)	615175.2	0.000000
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TIJ(7, 4)	52218.36	0.000000
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TIJ(7, 6)	0.000000	0.000000
TIJ(8, 1)	2205.880	0.000000
TIJ(8, 2)	0.000000	0.000000
TIJ(8, 3)	43014.66	0.000000
TIJ(8, 4)	448896.6	0.000000
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TIJ(9, 1)	758.1300	0.000000
TIJ(9, 2)	695205.2	0.000000
TIJ(9, 3)	0.000000	0.000000
TIJ(9, 4)	758.1300	0.000000
TIJ(9, 5)	0.000000	0.000000
TIJ(9, 6)	0.000000	0.000000
TIJ(10, 1)	797.4400	0.000000
TIJ(10, 2)	567777.3	0.000000
TIJ(10, 3)	797.4400	0.000000
TIJ(10, 4)	0.000000	0.000000
TIJ(10, 5)	0.000000	0.000000
TIJ(10, 6)	0.000000	0.000000
TIJ(11, 1)	0.000000	0.000000
TIJ(11, 2)	0.000000	0.000000
TIJ(11, 3)	0.000000	0.000000
TIJ(11, 4)	0.000000	0.000000
TIJ(11, 5)	737320.3	0.000000



TIJ(11, 6)	0.000000	0.000000
TIJ(12, 1)	0.000000	0.000000
TIJ(12, 2)	0.000000	0.000000
TIJ(12, 3)	0.000000	0.000000
TIJ(12, 4)	769521.9	0.000000
TIJ(12, 5)	0.000000	0.000000
TIJ(12, 6)	24267.73	0.000000
TIJ(13, 1)	0.000000	0.000000
TIJ(13, 2)	0.000000	0.000000
TIJ(13, 3)	3059.340	0.000000
TIJ(13, 4)	395674.6	0.000000
TIJ(13, 5)	201916.4	0.000000
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TIJ(14, 1)	0.000000	0.000000
TIJ(14, 2)	0.000000	0.000000
TIJ(14, 3)	0.000000	0.000000
TIJ(14, 4)	147629.7	0.000000
TIJ(14, 5)	0.000000	0.000000
TIJ(14, 6)	806752.9	0.000000
TIJ(15, 1)	0.000000	0.000000
TIJ(15, 2)	0.000000	0.000000
TIJ(15, 3)	0.000000	0.000000
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TIJ(15, 6)	943.3200	0.000000
TIJ(16, 1)	0.000000	0.000000
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TIJ(16, 6)	1019864.	0.000000
TIJ(17, 1)	0.000000	0.000000
TIJ(17, 2)	0.000000	0.000000
TIJ(17, 3)	0.000000	0.000000
TIJ(17, 4)	0.000000	0.000000
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TIJ(17, 6)	0.000000	0.000000
TIJ(18, 1)	3512.280	0.000000
TIJ(18, 2)	0.000000	0.000000
TIJ(18, 3)	0.000000	0.000000
TIJ(18, 4)	0.000000	0.000000
TIJ(18, 5)	362642.9	0.000000
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TIJ(19, 1)	0.000000	0.000000
TIJ(19, 2)	0.000000	0.000000
TIJ(19, 3)	347432.4	0.000000
TIJ(19, 4)	0.000000	0.000000
TIJ(19, 5)	0.000000	0.000000
TIJ(19, 6)	0.000000	0.000000
TIJ(20, 1)	0.000000	0.000000
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TIJ(20, 3)	1288223.	0.000000
TIJ(20, 4)	0.000000	0.000000
TIJ(20, 5)	0.000000	0.000000
TIJ(20, 6)	0.000000	0.000000
TIJ(21, 1)	0.000000	0.000000
TIJ(21, 2)	0.000000	0.000000
TIJ(21, 3)	582658.4	0.000000
TIJ(21, 4)	60216.52	0.000000
TIJ(21, 5)	0.000000	0.000000
TIJ(21, 6)	0.000000	0.000000
KIJ(1, 1)	4125223.	0.000000
KIJ(1, 2)	306815.1	0.000000
KIJ(1, 3)	10507.36	0.000000
KIJ(1, 4)	0.000000	0.000000
KIJ(1, 5)	0.000000	0.000000
KIJ(1, 6)	5190.001	0.000000
KIJ(2, 1)	43505.75	0.000000
KIJ(2, 2)	0.000000	0.000000
KIJ(2, 3)	49317.59	0.000000
KIJ(2, 4)	0.000000	0.000000
KIJ(2, 5)	5378175.	0.000000
KIJ(2, 6)	0.000000	0.000000
KIJ(3, 1)	941190.7	0.000000
KIJ(3, 2)	0.000000	0.000000
KIJ(3, 3)	4764896.	0.000000
KIJ(3, 4)	0.000000	0.000000



KIJ(3, 5)	0.000000	0.000000
KIJ(3, 6)	0.000000	0.000000
KIJ(4, 1)	529325.7	0.000000
KIJ(4, 2)	4943973.	0.000000
KIJ(4, 3)	0.000000	0.000000
KIJ(4, 4)	6686.746	0.000000
KIJ(4, 5)	0.000000	0.000000
KIJ(4, 6)	0.000000	0.000000
KIJ(5, 1)	10828.59	0.000000
KIJ(5, 2)	0.000000	0.000000
KIJ(5, 3)	0.000000	0.000000
KIJ(5, 4)	9831038.	0.000000
KIJ(5, 5)	0.000000	0.000000
KIJ(5, 6)	0.000000	0.000000
KIJ(6, 1)	0.000000	0.000000
KIJ(6, 2)	5896573.	0.000000
KIJ(6, 3)	0.000000	0.000000
KIJ(6, 4)	0.000000	0.000000
KIJ(6, 5)	0.000000	0.000000
KIJ(6, 6)	3776230.	0.000000
KIJ(7, 1)	4029398.	0.000000
KIJ(7, 2)	0.000000	0.000000
KIJ(7, 3)	0.000000	0.000000
KIJ(7, 4)	488241.7	0.000000
KIJ(7, 5)	66882.42	0.000000
KIJ(7, 6)	0.000000	0.000000
KIJ(8, 1)	14448.51	0.000000
KIJ(8, 2)	0.000000	0.000000
KIJ(8, 3)	354870.9	0.000000
KIJ(8, 4)	4197183.	0.000000
KIJ(8, 5)	123749.9	0.000000
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KIJ(9, 1)	4965.751	0.000000
KIJ(9, 2)	5074998.	0.000000
KIJ(9, 3)	0.000000	0.000000
KIJ(9, 4)	7088.515	0.000000
KIJ(9, 5)	0.000000	0.000000
KIJ(9, 6)	0.000000	0.000000
KIJ(10, 1)	5223.232	0.000000
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KIJ(11, 1)	0.000000	0.000000
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KIJ(11, 4)	0.000000	0.000000
KIJ(11, 5)	7004543.	0.000000
KIJ(11, 6)	0.000000	0.000000
KIJ(12, 1)	0.000000	0.000000
KIJ(12, 2)	0.000000	0.000000
KIJ(12, 3)	0.000000	0.000000
KIJ(12, 4)	7310458.	0.000000
KIJ(12, 5)	0.000000	0.000000
KIJ(12, 6)	201422.2	0.000000
KIJ(13, 1)	0.000000	0.000000
KIJ(13, 2)	0.000000	0.000000
KIJ(13, 3)	26004.39	0.000000
KIJ(13, 4)	3758909.	0.000000
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TRIJ(3, 3)	8.250000	0.000000
TRIJ(3, 4)	9.350000	0.000000
TRIJ(3, 5)	9.350000	0.000000
TRIJ(3, 6)	8.150000	0.000000
TRIJ(4, 1)	6.550000	0.000000
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TRIJ(4, 4)	9.350000	0.000000
TRIJ(4, 5)	9.350000	0.000000
TRIJ(4, 6)	8.150000	0.000000
TRIJ(5, 1)	6.550000	0.000000
TRIJ(5, 2)	7.300000	0.000000
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TRIJ(5, 4)	9.350000	0.000000
TRIJ(5, 5)	9.350000	0.000000
TRIJ(5, 6)	8.150000	0.000000
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TRIJ(6, 4)	9.350000	0.000000
TRIJ(6, 5)	9.350000	0.000000
TRIJ(6, 6)	8.150000	0.000000
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TRIJ(7, 4)	9.350000	0.000000
TRIJ(7, 5)	9.350000	0.000000
TRIJ(7, 6)	8.150000	0.000000
TRIJ(8, 1)	6.550000	0.000000
TRIJ(8, 2)	7.300000	0.000000

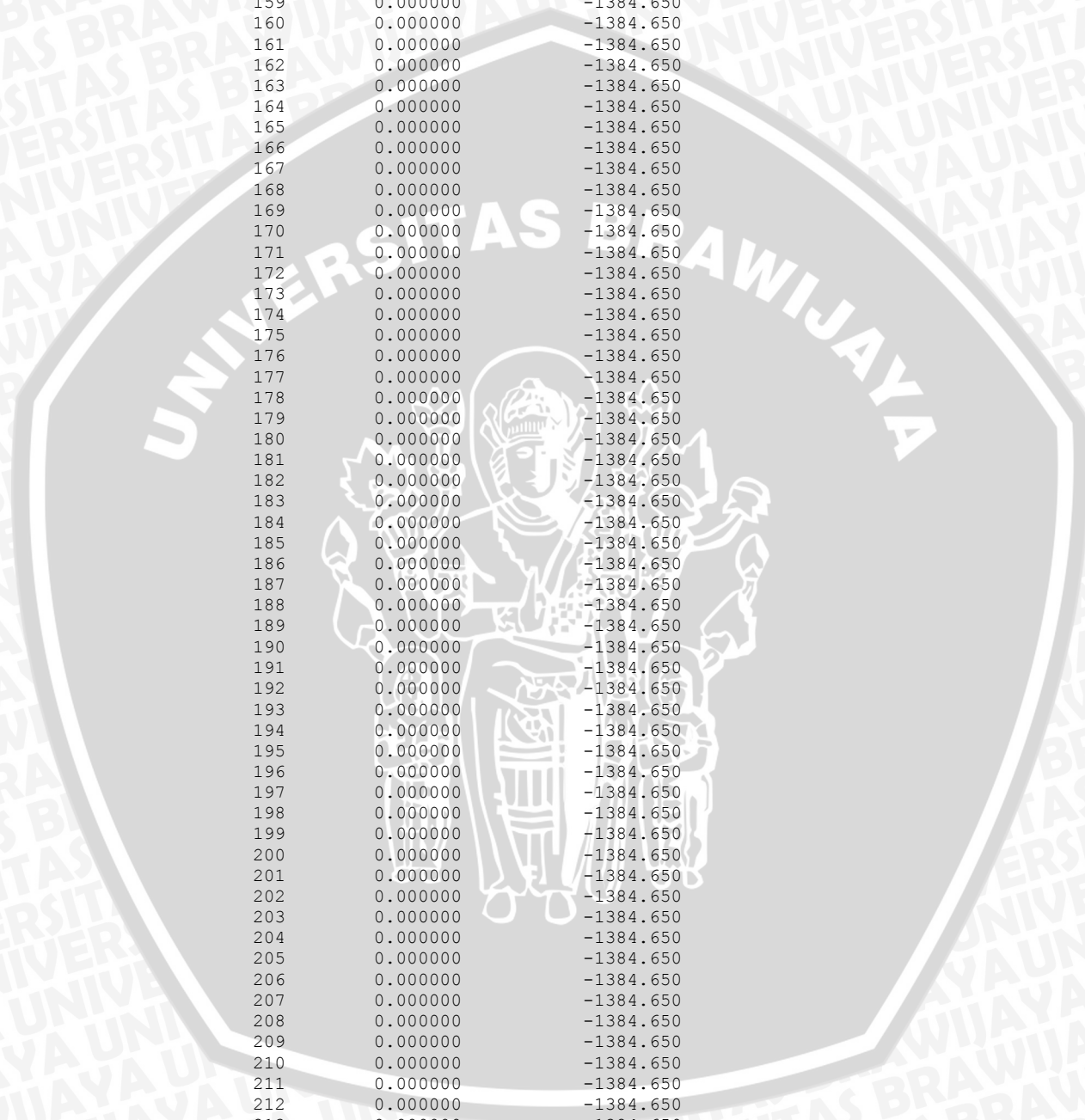
TRIJ(8, 3)	8.250000	0.000000
TRIJ(8, 4)	9.350000	0.000000
TRIJ(8, 5)	9.350000	0.000000
TRIJ(8, 6)	8.150000	0.000000
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TRIJ(9, 5)	9.350000	0.000000
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TRIJ(11, 5)	9.500000	0.000000
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TRIJ(13, 5)	9.500000	0.000000
TRIJ(13, 6)	8.300000	0.000000
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TRIJ(14, 4)	9.500000	0.000000
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TRIJ(21, 4)	9.400000	0.000000
TRIJ(21, 5)	9.400000	0.000000
TRIJ(21, 6)	8.200000	0.000000

Row	Slack or Surplus	Dual Price
1	0.6213814E+12	-1.000000
2	565.7300	0.000000
3	0.6700000	0.000000
4	0.3400000	0.000000
5	0.9500000	0.000000
6	0.3400000	0.000000
7	1.890000	0.000000
8	0.1000000E-01	0.000000
9	0.8800000	0.000000
10	0.6500000	0.000000
11	0.6900000	0.000000
12	0.6400000	0.000000
13	0.1600000	0.000000
14	0.5200000	0.000000
15	0.1200000	0.000000
16	0.000000	0.000000
17	0.1300000	0.000000
18	0.1300000	0.000000
19	0.3400000	0.000000
20	0.4200000	0.000000
21	0.2300000	0.000000
22	0.2300000	0.000000
23	55.66000	0.000000
24	18.23000	0.000000
25	0.2100000	0.000000
26	1.980000	0.000000
27	5.090000	0.000000
28	3.730000	0.000000
29	0.000000	-19499.46
30	0.000000	-20537.94
31	0.000000	-21853.36
32	0.000000	-23376.48
33	0.000000	-23376.48
34	0.000000	-21714.90
35	0.000000	-19499.46
36	0.000000	-20537.94
37	0.000000	-21853.36
38	0.000000	-23376.48
39	0.000000	-23376.48
40	0.000000	-21714.90
41	0.000000	-18977.96
42	0.000000	-20016.44
43	0.000000	-21331.86
44	0.000000	-22854.98
45	0.000000	-22854.98
46	0.000000	-21193.40
47	0.000000	-18977.96
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51	0.000000	-22854.98
52	0.000000	-21193.40
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54	0.000000	-20537.94
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64	0.000000	-23279.40
65	0.000000	-20020.96
66	0.000000	-21059.44
67	0.000000	-22374.86
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70	0.000000	-22236.40

71	0.000000	-19499.46
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