Bipolar pentagonal neutrosophic fuzzy input values for model parameters

Table 1: BPNFS input for time and emission constraints.

\widehat{mSegT}	\widetilde{MSegT}
< (0.0001, 0.0002, 0.0003, 0.0004, 0.0005; 0.3),	< (0.004, 0.006, 0.008, 0.01, 0.012, 0.5),
(0.001, 0.002, 0.003, 0.004, 0.005; 0.1),	(0.005, 0.006, 0.007, 0.008, 0.009; 0.3),
(0.0001, 0.0002, 0.0003, 0.0004, 0.0005; 0.2),	(0.002, 0.003, 0.004, 0.005, 0.006; 0.2),
(0.001, 0.002, 0.003, 0.004, 0.005, -0.5),	(0.008, 0.01, 0.012, 0.014, 0.016, -0.5),
(0.0001, 0.0002, 0.0003, 0.0004, 0.0005; -0.3),	(0.001, 0.002, 0.003, 0.004, 0.005; -0.4),
(0.0001, 0.0002, 0.0003, 0.0004, 0.0005; -0.2) >	(0.004, 0.005, 0.006, 0.007, 0.008; -0.1) >
\widetilde{mExT}	\widetilde{MExT}
<(0.2,0.3,0.4,0.5,0.6;0.7),(0.1,0.11,0.12,0.13,0.14;0.4),	<(1,1.1,1.2,1.3,1.4;0.5),(0.5,0.7,0.9,1.1,1.3;0.3),
(0.3, 0.4, 0.5, 0.6, 0.7; 0.3), (0.08, 0.1, 0.12, 0.14, 0.16; -0.6),	(0.4, 0.6, 0.8, 1, 1.2; 0.2), (0.7, 0.8, 0.9, 1, 1.1; -0.5),
(0.11,0.13,0.15,0.17,0.19;-0.4),(0.2,0.4,0.6,0.8,1;-0.1)>	(1,1.2,1.4,1.6,1.8;-0.4),(0.3,0.5,0.7,0.9,1.1;-0.1)>
\widetilde{mReT}	\widetilde{MReT}
< (0.1, 0.2, 0.3, 0.4, 0.5; 0.3), (0.07, 0.09, 0.11, 0.13, 0.15; 0.1),	<(1,1.1,1.2,1.3,1.4;0.8),(0.5,0.7,0.9,1.1,1.3;0.4),
(0.2, 0.3, 0.4, 0.5, 0.6; 0.2), (0.06, 0.08, 0.1, 0.12, 0.14; -0.5),	(0.4, 0.6, 0.8, 1, 1.2; 0.2), (0.7, 0.8, 0.9, 1, 1.1; -0.6),
(0.1, 0.3, 0.5, 0.7, 0.9; -0.3), (0.2, 0.3, 0.4, 0.5, 0.6; -0.2) >	(1,1.2,1.4,1.6,1.8;-0.5),(0.3,0.5,0.7,0.9,1.1;-0.1)>
\widetilde{CCE}	
<(441,442,443,444,445;0.6),(345,346,347,348,349;0.4),	
(243, 244, 245, 246, 247; 0.2), (257, 258, 259, 260, 261; -0.8),	
(321, 322, 323, 324, 325; -0.5), (401, 411, 421, 431, 441; -0.2) >	

Table 2: BPNFS input for supply, demand, and conveyance constraints.

i = 1		
		0 0
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		(120 121 122 123 124.0 0) (102 103 104 105 106:0 5)
<(100, 101, 102, 103, 104; 0.6), (190, 192, 194, 196, 198; 0.3), (115, 116, 117, 118, 119, 0.3), (100, 102, 104, 106, 108; -0.5).	< (100, 101, 102, 103, 104; 0.7), (110, 111, 112, 113, 114; 0.4), (109, 110, 111, 112, 113; 0.1), (102, 104, 106, 108, 110; -0.3).	< (120, 121, 122, 123, 124; 0.9), (102, 103, 104, 105, 106; 0.5), (101, 102, 103, 104, 105; 0.3). (110, 111, 112, 113, 114; -0.2).
(120, 122, 124, 126, 128; -0.2), (178, 179, 180, 181, 182; -0.5) >		(98, 100, 102, 104, 106, -0.7), (90, 91, 92, 93, 94; -0.4) >
j = 1	j=2	j = 3
< (30, 40, 50, 60, 70; 0.2), (45, 55, 65, 75, 85; 0.5),	< (35, 37, 39, 41, 43; 0.4), (44, 46, 48, 50, 52; 0.6),	< (65, 66, 67, 68, 69; 0.9), (78, 80, 82, 84, 86; 0.5),
(100, 102, 104, 106, 108; 0.3), (120, 125, 130, 135, 140; -0.4),	(22, 24, 26, 28, 30; 0.3), (44, 45, 46, 47, 48; -0.1),	(67, 68, 69, 70, 71; 0.3), (78, 80, 82, 84, 86; -0.2),
(90, 110, 130, 150, 170; -0.7), (65, 75, 85, 95, 105; -0.6) >	(41, 42, 43, 44, 45; -0.3), (11, 14, 17, 20, 23; -0.8) >	(88, 89, 90, 91, 92, -0.7), (77, 78, 79, 80, 81, -0.4) >
j = 4	j = 5	
< (67, 68, 69, 70, 71; 0.3), (56, 57, 58, 59, 60; 0.4),	< (56, 58, 60, 62, 64; 0.5), (62, 63, 64, 65, 66; 0.4),	
(34, 36, 38, 40, 42; 0.6), (44, 45, 46, 47, 48; -0.6),	(45, 47, 49, 51, 53; 0.3), (47, 48, 49, 50, 51; -0.7),	
(35, 37, 39, 41, 43; -0.7), (57, 58, 59, 60, 61; -0.8) >	70, 72, 74, 76, 78; -0.5), (36, 37, 38, 39, 40; -0.5) >	
	VerCk	
k = 1	k = 2	k = 3
< (100, 110, 120, 130, 140; 0.4), (226, 228, 230, 232, 234; 0.2),	< (110, 111, 112, 113, 114; 0.5), (150, 152, 154, 156, 158; 0.3),	<(179, 180, 181, 182, 183; 0.4), (194, 196, 198, 200, 202; 0.6),
(170, 171, 172, 173, 174; 0.1), (130, 140, 150, 160, 170; -0.5),	(148, 149, 150, 151, 152; 0.1), (166, 167, 168, 169, 170; -0.5),	(230,231,232,233,234;0.7),(220,222,224,226,228;-0.5),
(136,138,140,142,144;-0.3),(202,204,206,208,210;-0.4)>	$ \qquad (146,147,148,149,150;-0.9), (121,122,123,124,125;-0.7) > \\$	(188, 189, 190, 191, 192, -0.7), (190, 191, 192, 193, 194, -0.6) >
	\widetilde{ExM}_j	
j = 1	j = 2	j = 3
< (32, 33, 34, 35, 36, 0.6), (44, 45, 46, 47, 48, 0.4),	< (31, 32, 33, 34, 35; 0.6), (29, 31, 33, 35, 37; 0.4),	< (32, 33, 34, 35, 36, 0.6), (31, 34, 37, 40, 43, 0.4),
(25, 26, 27, 28, 29; 0.1), (37, 38, 39, 40, 41; -0.8),	(41, 42, 43, 44, 45; 0.2), (21, 22, 23, 24, 25; -0.6),	(37, 39, 41, 43, 45; 0.5), (41, 42, 43, 44, 45; -0.7),
(22,23,24,25,26;-0.5),(31,32,33,34,35;-0.3)>	(33, 35, 37, 39, 41; -0.3), (23, 24, 25, 26, 27; -0.2) >	(35, 36, 37, 38, 39; -0.5), (22, 23, 24, 25, 26; -0.4) >
j = 4	j = 5	
< (27, 29, 31, 33, 35; 0.2), (23, 24, 25, 26, 27; 0.5),	< (21, 22, 23, 24, 25; 0.6), (14, 16, 18, 20, 22; 0.3),	
(34, 36, 38, 40, 42; 0.6), (39, 41, 43, 45, 47; -0.5),	(31, 32, 33, 34, 35; 0.1), (25, 27, 29, 31, 33; -0.6),	
(17, 19, 21, 23, 25, -0.7), (26, 27, 28, 29, 30, -0.8) >	(34, 35, 36, 37, 38, -0.3), (18, 20, 22, 24, 26, -0.4) >	
	DemM	
l = 1	l=2	
< (67, 68, 69, 70, 71; 0.5), (114, 116, 118, 120, 122; 0.3).	< (121, 122, 123, 124, 125; 0.2), (140, 142, 144, 146, 148; 0.4).	
(96.97.98.99.100:0.2). (86.87.88.89.90:=0.6).	(118, 119, 120, 121, 122; 0.3), (123, 124, 125, 126, 127; -0.7).	
(123, 124, 125, 126, 127; -0.4), (111, 112, 113, 114, 115; -0.2) >		
	-	
$k' \equiv 1$	$k' \equiv 2$	$k' \equiv 3$
< (56.58.60.62.64:0.5). (98.99.100.101.102:0.3).	< (121, 122, 123, 124, 125; 0.5). (92, 93, 94, 95, 96; 0.3).	
(78 79 80 81 82:0 2) (68 70 72 74 76: -0.5)	(110 111 112 113 114:0 1) (84 86 88 90 92: -0.5)	(109 110 111 112 113: 0.2) (134: 135: 136: 137: 138: -0.6).
(85, 86, 87, 88, 89; -0.4), (92, 93, 94, 95, 96; -0.3) >	(125, 126, 127, 128, 129; -0.9), (98, 99, 100, 101, 102; -0.7)	(119, 120, 121, 122, 123; -0.5), (104, 105, 106, 107, 108; -0.1)
	\widehat{ReP}_i	
j=1	j=2	<i>i</i> = 3
< (43, 44, 45, 46, 47; 0.6), (54, 55, 56, 57, 58; 0.4),	< (55, 56, 57, 58, 59; 0.5), (49, 50, 51, 52, 53; 0.7),	< (46, 47, 48, 49, 50; 0.7), (32, 33, 34, 35, 36; 0.5),
(37, 39, 41, 43, 45; 0.1), (34, 36, 38, 40, 42; -0.8).	(62, 63, 64, 65, 66; 0.8), (67, 68, 69, 70, 71; -0.4).	(55, 57, 59, 61, 63; 0.3). (42, 44, 46, 48, 50; -0.6).
(52, 53, 54, 55, 56; -0.5), (46, 48, 50, 52, 54; -0.3) >	(71, 73, 75, 77, 79, -0.7), (59, 61, 63, 65, 67, -0.6) >	(52, 53, 54, 55, 56; -0.2), (34, 35, 36, 37, 38; -0.3) >
j = 4	j = 5	
< (51, 52, 53, 54, 55; 0.6), (45, 46, 47, 48, 49; 0.3),	< (33, 35, 37, 39, 41; 0.7), (24, 25, 26, 27, 28; 0.6),	
(71, 72, 73, 74, 75; 0.4), (62, 63, 64, 65, 66; -0.5),	(46, 47, 48, 49, 50; 0.4), (54, 56, 58, 60, 62; -0.6),	
(42,44,46,48,50;-0.6), (35,37,39,41,43;-0.6) >	(51, 52, 53, 54, 55; -0.5), (23, 25, 27, 29, 31; -0.3) >	
	\widetilde{DemP}_m	
m = 1	m = 2	m = 3
<(64,65,66,67,68;0.6),(72,73,74,75,76;0.4),	<(87, 88, 89, 90, 91; 0.2), (78, 79, 80, 81, 82; 0.4),	<(96,98,100,102,104;0.4),(125,127,129,131,133;0.5),
(46, 48, 50, 52, 54; 0.3), (53, 55, 57, 59, 61; -0.7),	(56, 58, 60, 62, 64, 0.3), (63, 64, 65, 66, 67; -0.6),	(99,100,101,102,103;0.7),(103,104,105,106,107;-0.5),
(48, 49, 50, 51, 52; -0.3), (67, 68, 69, 70, 71; -0.2) >	(71, 72, 73, 74, 75; -0.3), (47, 49, 51, 53, 55; -0.1) >	(87, 88, 89, 90, 91; -0.2), (110, 111, 112, 113, 114; -0.3) >
	VrmP _{k'} ,	
k'' = 1	k''=2	k'' = 3
< (77, 79, 81, 83, 85; 0.5), (115, 116, 117, 118, 119; 0.3), (97, 98, 99, 100, 101; 0.2), (134, 135, 136, 137, 138; -0.5).	< (136, 137, 138, 139, 140; 0.6), (98, 99, 100, 101, 102; 0.4), (151, 152, 153, 154, 155; 0.2), (99, 100, 101, 102, 103; -0.7).	< (118, 119, 120, 121, 122; 0.4), (122, 123, 124, 125, 126; 0.6), (101, 102, 103, 104, 105; 0.7), (95, 97, 99, 101, 103; -0.5).
(102, 104, 106, 108, 110; -0.4), (78, 79, 80, 81, 82; -0.3) >	(122, 124, 126, 128, 130; -0.3), (104, 105, 106, 107, 108; -0.1) >	(113, 114, 115, 116, 117; -0.7), (102, 103, 104, 105, 106; -0.6) >

Table 3: BPNFS input for $\widetilde{MmC_i}$ at the i^{th} collection center.

_	_		
i = 3	<(2, 4, 6, 8, 10; 0.2), (3, 4, 5, 6, 7; 0.5),	(6, 7, 8, 9, 10; 0.5), (7, 8, 9, 10, 11; -0.6),	$\left \begin{array}{c} (4,6,8,10,12;-0.3), (1,2,3,4,5;-0.5) > \end{array} \right.$
i = 2	< (5, 6, 7, 8, 9; 0.5), (6, 8, 10, 12, 14; 0.2),	(2, 3, 4, 5, 6; 0.4), (8, 9, 10, 11, 12; -0.4),	(5, 6, 7, 8, 9; -0.3), (4, 5, 6, 7, 8; -0.3) >
i = 1	< (4, 5, 6, 7, 8; 0.7), (6, 7, 8, 9, 10; 0.4),	(1, 3, 5, 7, 9; 0.6), (5, 6, 7, 8, 9; -0.6),	(2, 4, 6, 8, 10; -0.7), (1, 2, 3, 4, 5; -0.4) >

Table 4: BPNFS input for $\widetilde{ColC_i}$ at the i^{th} collection center.

i = 1	i = 2	i = 3
<(1, 2, 3, 4, 5; 0.6), (1.5, 2, 2.5, 3, 2.5; 0.4),	<(3,4,5,6,7;0.9),(1,3,5,7,9;0.3),	<(2,3,4,5,6;0.4),(1,2,3,4,5;0.3),
(3, 4, 5, 6, 7; 0.5), (1, 2, 3, 4, 5; -0.7)	(4, 4.5, 5, 5.5, 6; 0.2), (5, 5.5, 6, 6.5, 7; -0.2),	(4,5,6,7,8;0.7),(3,4,5,6,7;-0.2),
(4, 5, 6, 7, 8; -0.3), (2, 4, 6, 8, 10; -0.4) >	(3,3.5,4,4.5,5;-0.5),(4,5,6,7,8;-0.8)>	(4, 5, 6, 7, 8; -0.8), (1, 2, 3, 4, 5; -0.3) >

Table 5: BPNFS input for $\widetilde{SegC_j}$ at the j^{th} extraction and recycling center.

j = 1	j = 2	j = 3
< (0.1, 0.2, 0.3, 0.4, 0.5, 0.2), (0.5, 1, 1.5, 2, 2.5, 0.5),	< (1.2, 1.3, 1.4, 1.5, 1.6; 0.2), (1, 2, 3, 4, 5; 0.6),	< (0.5, 0.6, 0.7, 0.8, 0.9; 0.8), (1, 1.1, 1.2, 1.3, 1.4; 0.5),
(0.25, 0.35, 0.45, 0.55, 0.65; 0.1), (1.5, 1.6, 1.7, 1.8, 1.9; -0.3),	(1.5, 1.7, 1.9, 2.1, 2.3; 0.7), (0.5, 0.6, 0.7, 0.8, 0.9; -0.4),	(1.8, 1.9, 2, 2.1, 2.2; 0.2), (2, 2.2, 2.4, 2.6, 2.8; -0.3),
(1, 1.2, 1.4, 1.6, 1.8, -0.4), (0.5, 0.6, 0.7, 0.8, 0.9, -0.8) >	(2, 2.1, 2.2, 2.3, 2.4; -0.5), (0.1, 0.2, 0.3, 0.4, 0.5; -0.6) >	$(2,2.1,2.2,2.3,2.4;-0.5),(0.1,0.2,0.3,0.4,0.5;-0.6) > \\ (0.2,0.3,0.4,0.5,0.6;-0.6),(1.1,1.3,1.5,1.7,1.9;-0.4) > \\ (2,2.1,2.2,2.3,2.4;-0.5),(1.1,1.3,1.5,1.7,1.9;-0.4) > \\ (3,2.1,2.1,2.2,2.3,2.4;-0.5),(1.1,2.3,1.5,1.7,1.9;-0.4) > \\ (3,2.1,2.1,2.2,2.3,2.4;-0.5),(1.1,2.3,1.5,1.7,1.9;-0.4) > \\ (3,2.1,2.1,2.1,2.2,2.3,2.4;-0.5),(1.1,2.1,2.1,2.2,2.3,2.4;-0.5),(1.1,2.3,1.5,1.7,1.9;-0.4) > \\ (3,2.1,2.1,2.1,2.1,2.2,2.3,2.4;-0.5),(1.1,2.1,2.1,2.2,2.3,2.4,2.2,2.2,2.3,2.2,2.2,2.2,2.2,2.2,2.2,2.2$
j = 4	j = 5	
<(1, 1.3, 1.5, 1.7, 1.9; 0.4), (0.2, 0.3, 0.4, 0.5, 0.6; 0.6),	(1.2, 1.3, 1.4, 1.5, 1.6; 0.5), (2.3, 2.4, 2.5, 2.6, 2.7; 0.3),	
(1.8, 2, 2.2, 2.4, 2.6; 0.8), (1.5, 1.6, 1.7, 1.8, 1.9; -0.3),	(0.2, 0.3, 0.4, 0.5, 0.6; 0.6), (2.4, 2.5, 2.6, 2.7, 2.8; -0.3),	
$(0.4,0.5,0.6,0.7,0.9;-0.5), (1.2,1.3,1.4,1.5,1.6;-0.6) > \\ (1.9,2,2.1,2.2,2.3;-0.5), (1.5,1.6,1.7,1.8,1.9;-0.7) > \\ (1.9,2,2.1,2.2,2.3;-0.5), (1.5,1.6,1.7,1.8,1.9;-0.7) > \\ (1.9,2,2.1,2.2,2.3;-0.5), (1.5,1.6,1.7,1.8,1.9;-0.7) > \\ (1.9,2,2.1,2.2,2.3;-0.5), (1.9,2.2,2.2,2.3;-0.5), (1.9,2.2,2.2,2.2,2.2,2.2), (1.9,2.2,2.2,2.2,2.2), (1.9,2.2,2.2,2.2), (1.9,2.2,2.2,2.2), (1.9,2.2,2.2,2.2), (1.9,2.2,2.2), (1$	(1.9, 2, 2.1, 2.2, 2.3; -0.5), (1.5, 1.6, 1.7, 1.8, 1.9; -0.7) >	

Table 6: BPNFS input for \widetilde{ExC}_j at the j^{th} extraction and recycling center.

j = 1	j = 2	j = 3
<(7, 8, 9, 10, 11; 0.6), (2, 3, 4, 5, 6; 0.4),	< (11, 11.5, 12, 12.5, 13; 0.6), (9, 9.2, 9.4, 9.6, 9.8; 0.5),	<(9,10,11,12,13;0.5),(10.5,11,11.5,12,12.5;0.6),
(8.2, 8.4, 8.6, 8.8, 9; 0.7), (4, 4.5, 5, 5.5, 6; -0.3),	$(9,10,11,12,13;0.8), (14.5,14.6,14.7,14.8,14.9;-0.5), \\ (12,12,12.4,12.6,12.8,0.8), (13,14,15,16,17;-0.6), \\ (12,12.2,12.4,12.6,12.8;0.8), (13,14,15,16,17;-0.6), \\ (13,14,15,16,17;-0.6), \\ (14,15,16,17;-0.6), \\ (15,12,12,12,12,12,12,12,12,12,12,12,12,12,$	(12, 12.2, 12.4, 12.6, 12.8; 0.8), (13, 14, 15, 16, 17; -0.6),
(7, 8, 9, 10, 11; -0.4), (6, 6.5, 7, 7.5, 8; -0.3) >	(6, 6.5, 7, 7.5, 8; -0.7), (10, 11, 12, 13, 14; -0.8) >	(15.2, 15.4, 15.6, 15.8, 16; -0.3), (4, 5, 6, 7, 8; -0.4) >
j = 4	j = 5	
< (11, 11.3, 11.5, 11.7, 11.9; 0.5), (7, 8, 9, 10, 11; 0.3),	< (4, 5, 6, 7, 8; 0.6), (15, 16, 17, 18, 19; 0.5),	
(8, 9, 10, 11, 12; 0.4), (9, 9.2, 9.4, 9.6, 9.8, -0.7),	(2, 3, 4, 5, 6; 0.7), (3.5, 4, 4.5, 5, 5.5; -0.5),	
(2, 3, 4, 5, 6; -0.3), (1.5, 1.6, 1.7, 1.8, 1.9; -0.5) >	(10, 11, 12, 13, 14; -0.3), (6, 7, 8, 9, 10; -0.4) >	

Table 7: BPNFS input for \widetilde{ReC}_j at the j^{th} extraction and recycling center.

j = 1	j = 2	j = 3
<(5,6,7,8,9;0.1),(2,3,4,5,6;0.7),	<(3,4,5,6,7;0.9),(1,2,3,4,5;0.4),	<(4,5,6,7,8;0.6),(1,2,3,4,5;0.2),
$ \left(1.1, 1.2, 1.3, 1.4, 1.5; 0.4 \right), (0.5, 0.6, 0.7, 0.8, 0.9; -0.6), \\ \left(5, 5, 1, 5, 2, 5, 5, 4; 0.6 \right), (3, 3, 2, 3, 4, 3.6, 3.8; -0.5), \\ \left(5, 2, 3, 5, 4; 0.6, 0.6, 0.3, 3.4, 3.6, 3.8; -0.5, 0.6, 0.6, 0.6, 0.6, 0.6, 0.6, 0.6, 0.6$	(5,5.1,5.2,5.3,5.4;0.6),(3,3.2,3.4,3.6,3.8;-0.5),	(3, 4, 5, 6, 7; 0.6), (1.5, 1.6, 1.7, 1.8, 1.9; -0.3),
(3, 3.5, 4, 4.5, 5, -0.8), (4, 5, 6, 7, 8, -0.3) >	(2, 3, 4, 5, 6; -0.5), (4, 5, 6, 7, 8; -0.7) >	(4, 4.1, 4.2, 4.3, 4.4; -0.5), (0.1, 0.2, 0.3, 0.4, 0.5; -0.7) >
j = 4	j = 5	
< (4.1, 4.2, 4.3, 4.4, 4.5; 0.7), (1.5, 1.6, 1.7, 1.8, 1.9; 0.4),	< (1, 2, 3, 4, 5; 0.5), (1.5, 1.6, 1.7, 1.8, 1.9; 0.4),	
(6, 6.1, 6.2, 6.3, 6.4; 0.3), (3, 3.2, 3.4, 3.6, 3.8; -0.5),	(3, 3.5, 4, 4.5, 5; 0.6), (4, 5, 6, 7, 8; -0.3),	
(1.5, 1.6, 1.7, 1.8, 1.9, -0.6), (2, 2.1, 2.3, 2.4, 2.5, -0.4) >	(3, 4, 5, 6, 7; -0.7), (6, 7, 8, 9, 10; -0.4) >	

Table 8: BPNFS input for \widetilde{TcrC}_{ijk} from the i^{th} collection center to the j^{th} extraction and recycling center via k^{th} conveyance.

\$\(\text{C}	1	71	6	4 ro	1	21	ю	4	70		61	ю	4	10
	k = 3 $< (10, 11, 12, 13, 14; 0.5), (9, 9.5, 10, 10.5, 11; 0.6), $ $(5, 6, 7, 8, 9; 0.3), (6, 7, 8, 9, 10; -0.3), $ $(10, 10.5, 11, 11.5, 12; -0.7), (6, 7, 8, 9, 10; -0.5) >$		$\langle (5, 6, 7, 8, 9; 0.6), (12, 12.5, 13, 13.5, 14; 0.4),$ $\langle (9, 10, 11, 12, 13; 0.6), (4, 5, 6, 7, 8; -0.3),$ $\langle (7, 8, 9, 10, 11; -0.7), (12, 12.1, 12.2, 12.3, 12.4; -0.6) \rangle$	< (6, 7, 8, 9, 10; 0.7), (4, 6, 8, 10, 12; 0.5), $ 1, 2, 3, 4, 5; 0.2), (11.4, 11.6, 11.8, 12, 12.2; -0.6), $ $ (3, 3.5, 4, 4.5, 5; -0.1), (4, 5, 6, 7, 8; -0.4) > $ $ < (7, 8, 9, 10, 11; 0.6), (3, 4, 5, 6, 7; 0.2), $ $ (5, 5.5, 6, 6.5, 7, 0.4), (5, 6, 7, 8, 9, -0.8),$	(6,8,9,10;1,0.0),(3,4,5,0.0;1,0.0;1,0.0),(5,5,6.5,7,8,4,5,0.0;1,4,5,0.0;1,8,1,0.0),(4,5,0.0;1,8,1,0.0;1,8,1,0.0),(4,5,0.0;1,8,1,0.0;1,8,1,0.0),(4,5,0.0;1,8,1,0.0;1,8,1,0.0),(4,5,0.0;1,8,1,0.0;1,8,1,0.0;1,8,1,0.0),(4,5,0.0;1,8,1,0.0;1,8,1,0.0;1,8,1,0.0;1,8,1,0.0;1,8,1,0.0),(4,5,0.0;1,8,1,0.0;1,	$ \langle (8,9,10,11,12,0.5), (6,7,7.5,8.9,50.6), \\ \langle (8,9,10,11,12,0.5), (6,7,7.5,8.9,50.6), \\ \langle (6,7,8,9,10,0.7), (7,8,9,10,11;-0.3), \\ \langle (10.5,11,11.5,12,12.5;-0.4), (12.2,12.3,12.4,12.5,12.6;-0.7) > $	$\langle (7, 8, 9, 10, 11; 0.8), (3.4, 5, 6, 7, 0.3), (10.1, 10.2, 10.3, 10.4, 10.5; 0.5), (5, 6, 7, 8, 9; -0.4), (2.5, 3.5, 4.5, 5.5, 6.5; -0.3), (3.4, 5, 6, 7; -0.4) \rangle$	<(4,5,6,7,8;0.5),(8,9,10,11,12;0.4), (5.5,6,6.5,7,7.5;0.6),(6,7,8,9,10;-0.8), (4,4.5,5,5.5,6;-0.3),(7,8,9,10,11;-0.6)>	$\langle (6, 7, 8, 9, 10; 0.8), (5, 7, 9, 11, 13; 0.4),$ (6, 6.5, 7, 7.5, 8; 0.6), (9, 10, 11, 12, 13; -0.9), (6, 8, 10, 12, 14; -0.6), (7, 8, 9, 10, 11; -0.5) >	<(5, 7, 9, 11, 13; 0.7), (8, 9, 10, 11, 12; 0.4), (7, 8, 9, 10, 11; 0.3), (6.5, 7, 7.5, 8, 8.5; -0.6), (9, 10, 11, 12, 13; -0.3), (10, 11, 12, 13, 14; -0.4) >	<(7,9,11,13,14;0.7),(4,5,6,7,8;0.4), $(10,10.5,11,11.5,12;0.5),(6.5,7,7.5,8,8.5;-0.6),$ $(3,4,5,6,7;-0.1),(7,8,9,10,11;-0.4) >$	$\langle (7, 8, 9, 10, 11; 0.9), (5, 6, 7, 8, 9; 0.4),$ (6.5, 7, 7.5, 8, 8.5; 0.3), (6, 7, 8, 9, 10; -0.7), (5, 6, 7, 8, 9; -0.7), (7, 7.5, 8, 8.5, 9; -0.4) >	< (6, 7, 8, 9, 10; 0.4), (7, 8, 9, 10; 11; 0.5), (4, 6, 8, 10; 12; 0.3), (3, 5, 7, 9, 11; -0.7), (5, 6, 7, 8, 9; -0.4), (9, 10, 11, 12, 13; -0.5) $>$	<(7, 8, 9, 10, 11; 0.3), (3, 5, 7, 9, 11; 0.5), (6, 7, 8, 9, 10; 0.7), (2, 4, 6, 8, 10; -0.6), (4, 5, 6, 7, 8; -0.3), (6, 7, 8, 9, 10; -0.4) >
k = 1 $< (2, 3, 4, 5, 6; 0.6), (5, 6, 7, 8, 9; 0.7),$ $(9, 10, 11, 12, 13; 0.2), (4, 5, 6, 7, 8; -0.5),$ $(5, 6.5, 7.5, 8.5, 9.5, -0.4), (6, 7, 8, 9, 10; -0.6) >$ $(5, 6.5, 7.5, 8.9, 0.5), (4, 6, 8, 10, 12; 0.7),$ $(9, 10, 11, 12, 13; 0.3), (8, 10, 12; 14, 16; -0.6),$ $(7, 8, 9, 10, 11; 0.2), (8.5, 8.6, 8.7, 8.8, 8.9; 0.6),$ $(10, 10.5, 11, 11.5, 12; 0.5), (10, 12, 14, 16; 18; -0.7),$ $(4, 5, 6, 7.8, -0.4), (9, 11, 13, 15, 17; -0.1) >$ $(7, 7, 8, 9, 10, 11; 0.2), (3, 4, 5, 6, 7; 0.4),$ $(10, 10.5, 11, 11.5, 12; 0.6), (6, 7.8, 9, 10; -0.5),$ $(10, 10.5, 11, 11.5, 12; 0.6), (7, 8, 9, 10; 11; 0.2),$ $(10, 10.5, 11, 11.5, 12; 0.6), (7, 9, 11, 13; 15; -0.4),$ $(4, 6, 8, 10, 12; 0.4), (7, 8, 9, 10, 11; 0.2),$ $(10, 10.5, 11, 11.5, 12; 0.6), (7, 9, 11, 13, 15; -0.3),$ $(6, 7, 8, 9, 10; -0.3), (12.5, 13, 13.5, 14, 14.5; -0.5),$ $(10, 10.5, 11, 11.5, 12; 0.6), (7, 9, 10, 11; 0.2),$ $(10, 10.5, 11, 11.5, 12; 0.6), (7, 9, 10, 11; 0.3),$ $(6, 7, 8, 9, 10; -0.3), (12.5, 13, 13.5, 14, 14.5; -0.5),$ $(10, 10.5, 11, 11.5, 12; 0.6), (7, 9, 10, 11; 0.3),$ $(7, 7.5, 8.5, 9.10; 11; 0.8), (7, 8, 9, 10, 11; 0.3),$ $(7, 7.5, 8.5, 9.10, 11; 0.8), (7, 8, 9, 10, 11; 0.3),$ $(7, 7.5, 8.5, 9.10, 11; 0.8), (7, 8, 9, 10, 11; 12, 13; -0.4),$ $(8, 9, 10, 11, 12; 0.3), (7, 8, 9, 10, 11, 12, 13; -0.4),$ $(8, 9, 10, 11, 12; 0.3), (14, 10.5, 11, 11.12; 0.3),$ $(7, 8, 9, 10, 11; 0.3), (14, 6, 10, 11, 12; 13; -0.3),$ $(8, 9, 10, 11, 12, 13, 14; 0.6), (6, 7, 8, 9, 10; 0.4),$ $(8, 9, 10, 11, 12, 13, 14; 0.6), (6, 7, 8, 9, 10; 0.4),$ $(10, 10.5, 11, 11, 2, 0.5), (3, 9, 10, 11, 12; 0.3),$ $(4, 8, 9, 10, 11, 12, 0.5), (5, 5.5, 6, 6.5, 7; -0.5),$ $(7, 8, 9, 10, 11, 12, 13, 14; 0.6), (6, 7, 8, 9, 10; 0.4),$ $(8, 9, 10, 11, 12, 13, 14; 0.6), (6, 7, 8, 9, 10; 0.4),$ $(10, 10.5, 11, 11, 12, 13, 14; 0.6), (6, 7, 8, 9, 10; 0.4),$ $(10, 10.5, 11, 11, 2, 13, 14; 0.6), (6, 7, 8, 9, 10; 0.4),$ $(11, 12, 13, 14; 0.2), (9, 10, 11, 12; 0.3),$ $(11, 12, 13, 14; 0.2), (9, 10, 11, 12; 0.3),$ $(11, 12, 13, 14; 0.2), (9, 10, 11, 12; 0.3),$ $(11, 12, 13, 14; 0.2), (9, 1$	$\kappa = 2$ < (6, 7, 8, 9, 10; 0.7), (8, 9, 10, 11, 12; 0.5), (4, 4.5, 5, 5.6; 0.3), (9, 10, 11, 12, 13; -0.6), (8, 8.5, 9, 9.5, 10; -0.8), (7, 8, 9, 10, 11; -0.2) >	< (12, 12.1, 12.2, 12.3, 12.4; 0.5), (4, 5, 6, 7, 8; 0.6), (6, 6.5, 7, 7.5, 8; 0.8), (6, 7, 8, 9, 10; -0.4), (5, 6, 7, 8.9, -0.6), (11.11, 5.12, 12.5, 13; -0.5) >	<pre><(12, 12.5, 13, 13.5, 14:0.6), (5, 6, 7.8, 9:0.3), (4, 5, 6, 7, 8:0.4), (5, 5.5, 6, 6.5, 7; -0.5), (6, 7, 8, 9, 10: -0.3), (12.6, 12.7, 12.8, 12.9, 13: -0.8) ></pre>	< (10, 11, 12, 13, 14; 0.6), (5, 6, 7, 8, 9; 0.4), $ (7, 7.2, 7.4, 7.6, 7.8; 0.2), (12, 12.3, 12.6, 12.9, 13.2; -0.3), $ $ (7, 8, 9, 10, 11; -0.5), (10, 11, 12, 13, 14; -0.7) > $ $ < (10, 10.5, 11, 11.5, 12; 0.3), (6, 7, 8, 9, 10; 0.5), $ $ (4, 5, 6, 7, 8, 0.6), (12.1, 12.3, 12.5, 12.7, 12.9; -0.3),$	(9, 0, 1, 0, 1, 0, 0), (0, 9, 10, 11, 12; -0.1) > (9, 10, 11, 12, 13; 0.3), (10, 10.5, 11, 11.5, 12; 0.6), (5, 6, 7, 8, 9, 0.7), (12, 12, 4, 12.8, 13.2, 13.6; -0.2), (0, 10, 11, 12, 12, 0, 0, 0, 0, 10, 10, 11, 0.8)	(7,7.5, 8, 8.5, 9; -0.3), (10, 11, 12, 13, 14; -0.5) >	<pre>< (7, 8, 9, 10, 11; 0.5), (8, 9, 10, 11, 12; 0.4), (3, 4, 5, 6, 7; 0.1), (6, 6.4, 6.8, 7.2, 7.6; -0.8), (5, 6, 7, 8, 9; -0.3), (11, 12, 13, 14, 15; -0.4) ></pre>	< (8, 10, 12, 14, 16; 0.5), (3, 4, 5, 6, 7; 0.1), (6.8, 6.9, 7, 7.1, 7.2; 0.3), (5, 6, 7, 8, 9; -0.6), (6, 7, 8, 9, 10; -0.7), (11.5, 12, 12.5, 13, 13.5; -0.3) $>$	< (6, 7, 8, 9, 10; 0.7), (9, 10, 11, 12, 13; 0.2), (8.5, 9, 9.5, 10, 10.5; 0.4), (7.5, 8, 8.5, 9, 9.5; -0.6), (10, 11, 12, 13, 14; -0.3), (8, 10, 12, 14, 16; -0.4) $>$	< (8, 8.5, 9, 9.5, 10; 0.8), (10, 11, 12, 13, 14; 0.4), (7, 7.5, 8, 8.5, 9; 0.3), (9, 10, 11, 12, 13; -0.5), (5, 6, 7, 8, 9; -0.1), (9, 9.5, 10, 10.5, 11; -0.3) >	< (8, 9, 10, 11, 12; 0.5), (5, 6, 7, 8, 9; 0.3), (9, 10, 11, 12, 13; 0.4), (12, 13, 14, 15, 16; -0.9), (6.5, 7.5, 8.5, 9.5, 10.5; -0.3), (5.5, 6, 6.5, 7, 7.5; -0.6) $>$	< (10, 11, 12, 13, 14; 0.6), (9.5, 10, 10.5, 11, 11.5; 0.2), (6, 7, 8, 9, 10; 0.2), (9, 10, 11, 12, 13; -0.7), (10, 10.5, 11, 11.5, 12; -0.5), (11, 12, 13, 14, 15; -0.4) $>$	< (7, 8, 9, 10, 11; 0.4), (4, 6, 8, 10, 12; 0.3), (5, 6, 7, 8, 9; 0.7), (10, 11, 12, 13, 14; -0.5), (4, 5, 6, 7, 8; -0.4), (13, 13.5, 14, 14.5, 15; -0.7) $>$	$<(8.5,9.5,10.5,11.5,12.5;0.8),(10,11,12,13,14;0.4),\\(5,6,7,8,9;0.6),(4,5,6,7,8;-0.3),\\(9,10,11,12,13,-0.7),(8.5,10.5,12.5,14.5,16.5;-0.5)>$
	k = 1 $ < (2, 3, 4, 5, 6; 0.6), (5, 6, 7, 8, 9; 0.7), $ $ (9, 10, 11, 12, 13; 0.2), (4, 5, 6, 7, 8; -0.5), $ $ (5.5, 6.5, 7.5, 8.5, 9.5; -0.4), (6, 7, 8, 9, 10; -0.6) >$	< (5, 6, 7, 8, 9; 0.5), (4, 6, 8, 10, 12; 0.7), (9, 10, 11, 12, 13; 0.3), (8, 10, 12, 14, 16; -0.6), (7, 8, 9, 10, 11; -0.7), (10, 11, 12, 13, 14; -0.3) >	(7, 8, 9, 10, 11; 0.2), (8.5, 8.6, 8.7, 8.8, 8.9; 0.6), (10, 10.5, 11, 11.5, 12; 0.5), (10, 12, 14, 16, 18; -0.7), (4, 5, 6, 7, 8; -0.4), (9, 11, 13, 15, 17; -0.1)	<(7, 8, 9, 10, 11; 0.8), (3, 4, 5, 6, 7; 0.4), $(10, 10.5, 11, 11.5, 12; 0.6), (6, 7, 8, 9, 10; -0.5),$ $(12, 12.2, 12.4, 12.6, 12.8; -0.4), (8, 9, 10, 11, 12; -0.4) >$ $<(4, 6, 8, 10, 12; 0.4), (7, 8, 9, 10, 11; 0.8),$ $(10, 10.5, 11, 11.5, 12; 0.6), (7, 9, 11, 13, 15; -0.3),$	(6,1,5,9,10; -0.3), (12.5,15,15,13,14,14,5; -0.3) > < (10,11,12,13,14; 0.5), (7,8,9,10,11; 0.2), (10,10,10,10,10,6,10.8; 0.4), (6,7,8,9,10,10; -0.6), (7,7,8,9,10,10; -0.6), (7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7	(7.5, 8.5, 9.5, 10.5, 11.5; 0.4), (8.8.5, 9.9.5, 10.5) >	< (8, 9, 10, 11, 12; 0.5), (10, 11, 12, 13, 14; 0.3), (7, 7.5, 8, 8.5, 9; 0.1), (9, 10, 11, 12, 13; -0.5), (12, 12.5, 13, 13.5, 14; -0.4), (9, 10, 11, 12, 13; -0.3) $>$	< (5, 6, 7, 8, 9; 0.6), (8, 9, 10, 11, 12; 0.7), (9, 9.5, 10, 10.5, 11; 0.3), (7, 8, 9, 10, 11; -0.3), (8, 9, 10, 11, 12; -0.6), (9.5, 10, 10.5, 11, 11.5; -0.1) >		< (8, 9, 10, 11, 12; 0.7), (8, 8.5, 9, 9.5, 10; 0.4), (10, 11, 12, 13, 14; 0.3), (10, 11, 12, 13, 14; -0.4), (6.5, 7, 7.5, 8, 8.5; -0.5), (9, 10, 11, 12, 13; -0.6) $>$	$\langle (10, 11, 12, 13, 14; 0.6), (6, 7, 8, 9, 10; 0.4), $ $(8, 9, 10, 11, 12; 0.5), (5, 5.5, 6, 6.5, 7; -0.5), $ $(7, 8, 9, 10, 11; -0.4), (8, 9, 10, 11, 12; -0.3) > $	$\langle (6, 7, 8, 9, 10; 0.4), (8, 9, 10, 11, 12; 0.1), $ (10, 10.5, 11, 11.5, 12; 0.6), (7, 8, 9, 10, 11; -0.5), (10, 11, 12, 13, 14; -0.7), (8, 9, 10, 11, 12; -0.3) >	<(7,8,9,10,11;0.0),(5,6,7,8,9;0.4), (3,5,7,9,11;0.3),(9,10,11,12,13;-0.4), (7.5,8,8.5,9,9.5;-0.7),(9,10,11,12,13;-0.4))>	< (6, 7, 8, 9, 10; 0.6), (5.5, 6.5, 7.5, 8.5, 9.5; 0.5), (6, 8, 10, 12, 14; 0.3), (3, 5, 7, 9, 11; -0.4), (9, 11, 13, 15, 17; -0.5), (10, 11, 12, 13, 14; -0.9) $>$

Table 9: BPNFS input for $\widetilde{TrpC}_{jlk'}$ from the j^{th} extraction and recycling center to the l^{th} pharmaceutical company via k'^{th} conveyance.

7		1			61			П			7			-			73			1			2			П			7	
k' = 3	<(1,3,5,7,9;0.7),(3.5,4.5,5.5,6.5,7.5;0.4),	(2, 4, 6, 8, 10; 0.5), (1.5, 3.5, 5.5, 7.5, 9.5; -0.3),	(3, 5, 7, 9, 11; -0.6), (2, 3, 4, 5, 6; -0.4) >	<(3.5, 4.5, 5.5, 6.5, 7.5, 0.5), (4, 5, 6, 7, 8, 0.7),	(7, 8, 9, 10, 11; 0.6), (3, 4, 5, 6, 7; -0.9),	(5.5, 6.5, 7.5, 8.5, 9.5, -0.6), (6, 8, 10, 12, 14, -0.5) >	< (5, 6, 7, 8, 9; 0.4), (2, 4, 6, 8, 10; 0.6),	(3, 5, 7, 9, 11; 0.3), (4, 5, 6, 7, 8; -0.6),	(2,3,4,5,6;-0.7),(4,5,6,7,8;-0.2)>	< (2, 4, 6, 8, 10; 0.7), (2.5, 3.5, 4.5, 5.5, 6.5; 0.4),	(4, 7, 10, 13, 16; 0.1), (1, 2, 3, 4, 5; -0.5),	(3, 5, 7, 9, 11; -0.9), (1, 1.5, 2, 2.5, 3; -0.7) >	< (6, 7, 8, 9, 10; 0.5), (4, 5, 6, 7, 8; 0.4),	(2, 4, 6, 8, 10; 0.3), (5, 7, 9, 11, 13; -0.5),	(5, 6, 7, 8, 9; -0.7), (4, 6, 8, 10, 12; -0.7) >	<(4, 5, 6, 7, 8; 0.5), (3, 5, 7, 9, 11; 0.4),	(3, 4, 5, 6, 7; 0.6), (1, 2, 3, 4, 5; -0.7),	(4, 6, 8, 10, 12; -0.5), (2, 2.5, 3, 3.5, 4; -0.6) >	< (4, 5, 6, 7, 8; 0.8), (5, 6, 7, 8, 9; 0.6),	(2, 4, 6, 8, 10; 0.7), (3, 5, 7, 9, 11; -0.6),	(6, 7, 8, 9, 10; -0.7), (5, 6, 7, 8, 9; -0.5) >	<(4, 5, 6, 7, 8; 0.7), (2, 4, 6, 8, 10; 0.5),	(6, 7, 8, 9, 10; 0.3), (3.5, 4.5, 5.5, 6.5, 7.5; -0.5),	(1,3,5,7,8;-0.6),(4,6,8,10,12;-0.3)>	<(3, 4, 5, 6, 7; 0.4), (1, 3, 5, 7, 9; 0.5),	(6, 7, 8, 9, 10; 0.3), (2.5, 3.5, 4.5, 5.5, 6.5; -0.5),	(2, 4, 6, 8, 10; -0.7), (4, 5, 6, 7, 8; -0.6) >	<(4, 5, 6, 7, 8; 0.3), (2, 4, 6, 8, 10; 0.6),	(3, 5, 7, 9, 11; 0.5), (4, 5, 6, 7, 8; -0.4),	(1, 2, 3, 4, 5, -0.5), (3, 4, 5, 6, 7, -0.7) >
k'=2	<(3,4,5,6,7;-0.6),(4,6,8,10,12;-0.5),	(2.5, 3.5, 4.5, 5.5, 6.5; 0.5), (4, 5, 6, 7, 8, 0.3),	(4, 4.5, 5, 5.5, 6, 0.7), (2, 2.5, 3, 3.5, 4; -0.4) >	<(4.5, 6.5, 8.5, 10.5, 12.5; 0.4), (5, 7, 9, 11, 13; 0.5),	(4.5, 5, 5.5, 6, 6.5; 0.7), (7, 9, 11, 13, 15; -0.3),	(2, 4, 6, 8, 10; -0.5), (10, 10.5, 11, 11.5, 12; -0.6) >	< (7, 8, 9, 10, 11; 0.6), (4, 6, 8, 9, 10; 0.4),	(2, 3, 4, 5, 6; 0.3), (3.5, 4.5, 5.5, 6.5, 7.5; -0.5),	(6, 7, 8, 9, 10; -0.7), (5, 7, 9, 11, 13; -0.8) >	<(3,5,7,9,11;0.6),(4,5,6,7,8;0.5),	(5, 5.5, 6, 6.5, 7; 0.1), (5.5, 6.5, 7.5, 8.5, 9.5; -0.2),	(2, 4, 6, 8, 10; -0.5), (6, 7, 8, 9, 10; -0.7) >	<(7,8,9,10,11;0.4),(3,5,7,9,11;0.8),	(4,5,6,7,8;0.6),(1,3,5,7,9;-0.5),	(3, 4, 5, 6, 7; -0.4), (2, 3, 4, 5, 6; -0.5) >	<(2,3.5,5,6.5,8;0.7),(1,4,7,10,13;0.8),	(3, 4, 5, 6, 7; 0.5), (1.5, 2.5, 3.5, 4.5, 5.5; -0.3),	(6, 7, 8, 9, 10; -0.4), (5, 6, 7, 8, 9; -0.2) >	<(4,5,6,7,8;0.8),(1,3,5,7,9;0.7),	(1,3,5,6,7;0.5),(3.5,4.5,5.5,6.5,7.5;-0.7),	(2, 3, 4, 5, 6; -0.5), (2, 4, 6, 8, 10; -0.3) >	< (4, 5, 6, 7, 8; 0.6), (1, 3, 5, 7, 9; 0.3),	(4, 5, 6, 7, 8; 0.5), (3, 5, 7, 9, 11; -0.6),	(2, 4, 6, 8, 10; -0.8), (3, 4, 5, 6, 7; -0.5) >	(1,3,5,7,9;0.4), (4.5,5.5,6.5,7.5,8.5;0.6),	(5, 6, 7, 8, 9; 0.2), (3, 4, 5, 6, 7; -0.4),	(4,6,8,10,12;-0.5),(2,2.5,3,3.5,4;-0.2)>	< (4, 5, 6, 7, 8; 0.8), (2, 4, 6, 8, 10; 0.6),	(5, 6, 7, 8, 9; 0.3), (2.5, 3.5, 4.5, ,5.5, 6.5; -0.4),	(5, 6, 7, 8, 9; -0.6), (3, 5, 7, 9, 11; -0.5) >
k' = 1	<(3,4,5,6,7;0.5),(2.5,3.5,4.5,5.5,6.5;0.6),	(6, 7, 8, 9, 10; 0.4), (7, 8, 9, 10, 11; -0.3),	(4, 6, 8, 10, 12; -0.7), (3, 5, 7, 9, 11; -0.8) >	<(2.5,3,3.5,4,4.5;0.7),(4.5,5.5,6.5,7.5,8.5;0.4),	(3, 4, 5, 6, 7; 0.3), (2.5, 3.5, 4.5, 5.5, 6.5; -0.5),	(2,4,6,8,10;-0.4),(4,5,6,7,8;-0.6)>	< (2.5, 3.5, 4.5, 5.5, 6.5; 0.6), (3, 5, 7, 9, 11; 0.7),	(4, 6, 8, 10, 12; 0.8), (5, 7, 9, 11, 13; -0.5),	(3.5, 4.5, 5.5, 6.5, 7.5; -0.6), (2, 3, 4, 5, 6; -0.4) >	< (2.5, 4.5, 6.5, 8.5, 10.5; 0.8), (2, 3, 4, 5, 6; 0.7),	(1, 2, 3, 4, 5; 0.3), (3.5, 5, 6.5, 8, 9.5; -0.6),	(1, 2, 3, 4, 5; -0.5), (1, 3, 5, 7, 9; -0.2) >	< (3, 4, 5, 6, 7; 0.5), (4.5, 5.5, 6.5, 7.5, 8.5; 0.4),	(5, 6, 7, 8, 9; 0.3), (5, 7, 9, 11, 13; -0.6),	(2,4,6,8,10;-0.2),(4,5,6,7,8;-0.5)>	<(2,4,6,8,10;0.6),(3.5,4.5,5.5,6.5,7.5;0.4),	(3, 5, 7, 9, 11; 0.7), (4, 6, 8, 10, 12; -0.5),	(1,3,5,7,9;-0.3),(5,6,7,8,9;-0.5)>	<(2,3,4,5,6;0.4),(4,6,8,10,12;0.5),	(3, 4, 5, 6, 7; 0.2), (4, 5, 6, 7, 8; -0.5),	(5, 6, 7, 8, 9; -0.6), (3, 4, 5, 6, 7; -0.2) >	< (5, 7, 9, 11, 13; 0.1), (2.5, 4.5, 6.5, 8.5, 10.5; 0.2),	(3, 5, 7, 9, 11; 0.4), (5, 6, 7, 8, 9; -0.3),	(3.5, 4.5, 5.5, 6.5, 7.5, -0.7), (4, 6, 8, 10, 12, -0.6) >	< (5.5, 6.5, 7.5, 8.5, 9.5; 0.5), (3, 5, 7, 9, 11; 0.6),	(5, 6, 7, 8, 9; 0.3), (2, 4, 6, 8, 10; -0.4),	(3, 4, 5, 6, 7; -0.7), (5, 6, 7, 8, 9; -0.3) >	<(3, 4, 5, 6, 7; 0.5), (5, 7, 9, 11, 13; 0.3),	(5, 6, 7, 8, 9; 0.4), (6.5, 7.5, 8.5, 9.5, 10.5; -0.2),	(2, 4, 6, 8, 10; -0.4), (5, 6, 7, 8, 9; -0.6) >
j				-					c	\ \ -					0)					_	; ;					И	,		

Table 10: BPNFS input for $\widetilde{TrmC_{jmk''}}$ from the j^{th} extraction and recycling center to the m^{th} manufacturing company via k''^{th} conveyance.

(3,4,5,-0.6), (1,1.5,2,2.5,3;-0.4) > (3,4,5,6,7;-0.3), (5,6,7;8,9;-0.4) > (3,4,5,6,7;-0.3), (5,6,7,8,9;-0.4) >
(3, 4, 5, 6, 7; 0.5), (5, 6, 7, 8, 9; 0.4), (0.5, 1.5, 2.5, 3.5, 4.5; 0.5), (2, 3, 4, 5, 6; 0.3), (25, 35, 4, 55, 67, 0.7), (4, 5, 6, 7, 8, -0.4)
(1.5, 2
<(2,3,4,5,6;0.4),(3,3.5,4,4.5,5;0.6), $<(2,3,4,5,6;0.5),(3,3.5,4,4.5,5;0.2),$
^
< (3.5, 4, 4.5, 5, 5.5; 0.4), (3, 3.5, 4, 4.5, 5; 0.5)
(4, 4.5, 5.5, 6, 6.5; 0.4), (2.5, 3, 3.5, 4, 4.5, -0.5), (4, 4.5, 5, 5.5, 6, 0.8), (3, 4, 5, 5, 7; -0.7), (4, 4.5, 5, 5.5, 6, 0.8), (3, 4, 5, 5, 7; -0.7), (4, 4.5, 5, 5.5, 6, 0.8), (3, 4, 5, 5, 5, 5, 6, 0.8)
(1.5, 2.5, 3.5, 4.5, 5.5; 0.5), (2, 3, 4, 5, 6; -0.6),
$(2.5, 3.5, 4.5, 5.5, 6.5; -0.4), (1.5, 2.5, 3.5, 4.5, 5.5; -0.7) > \\ (1.5, 2, 2.5, 3, 3.5; -0.2), (3, 4, 5, 6, 7; -0.5) > \\ (3, 4, 5, 6, 7; -0.5) > \\ (4, 5, 7; -0.5) > \\ (4, 5, 7$
V
$(1,2,3,4,5;0.6),(3.5,4,4.5,5,5:9.0.5),\\ (3,4,5,6,7;0.4),(1.5,2.5,3.5,4.5,5.5;-0.7),\\ (2,3,4,5,6,7,0.6),(2.5,3.3.5,4,4.5;-0.3)>\\ (2,3,4,5,6,-0.6),(3.5,4,4.5,5.5.5;-0.4)>$
< (3.5, 4.5, 5.5, 6.5, 7.5; 0.5), (1, 2, 3, 4, 5; 0.4),
(1.5, 2, 2.5, 3, 3.5; 0.7), (2, 3, 4, 5, 6; -0.3),
(2, 2.5, 3, 3.5, 4; -0.5), (1.5, 2.5, 3.5, 4.5, 5.5; -0.4)
<(2,3,4,5,6;0.5),(2.5,3.5,4.5,5.5,6.5;0.6)
$(1.5,2,2.5,3,3.5;0.2),(2,3,4,5,6;-0.4), \\ (1,2,3,4,5;0.2),(3,4,5,6,7;-0.4), \\$
(2.5, 3, 3.5, 4, 4.5; -0.5), (3, 4, 5, 6, 7; -0.4) >
< (3, 4, 5, 6, 7; 0.7), (1, 3, 5, 7, 9; 0.3),
(4.5.6.7.8: -0.6), (1.1.5.2.2.5.3: -0.3)
(4.5, 5, 5.5, 6, 6.5; 0.4), (4, 5, 6, 7, 8; 0.3),
$(2.5,3,3.5,4,4.5;0.3),(1.5,2.5,3.5,4.5;0.5),\\ (1.5,2,2.5,3,3.5;0.5),(2,2.5,3,3.5,4;-0.9),\\ (1.5,2,2.5,3,3.5;0.5),(2,2.5,3,3.5,4;-0.9),\\ (2.5,3,3.5,4,4.5;0.3),(2.5,3.3,5,4.5;0.3),\\ (3.5,3,3.5,4,4.5;0.3),(3.5,3.5,4.5;0.3),\\ (3.5,3,3.5,4,4.5;0.3),(3.5,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),(3.5,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),(3.5,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),(3.5,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),(3.5,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),(3.5,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),(3.5,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),(3.5,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),(3.5,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),(3.5,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),(3.5,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),(3.5,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3,3.5,4.5;0.3),\\ (3.5,3.5,4.5;0.3),\\ (3.5,3.5,4.5;0.3),\\ (3.5,3.5,4.5;0.3),\\ (3.5,3.5,4.5;0.3),\\ (3.5,3.5,4.5;0.3),\\ (3.5,3.5,4.5;0.3),\\ (3.5,3.5,4.5;0.3),\\ (3.5,3.5,4.5;0.3),\\ (3.5,3.5,4.5;0.3),\\ (3.5,3.5,4.5;0.3),$
$<(1.5, 2.5, 3.5, 4.5, 5.5; 0.3), (4, 4.5, 5.5.5, 6; 0.6), \\ <(1.5, 2.5, 3.5, 2.5, 3, 3.5; 0.8), (3, 4, 5, 6, 7; 0.5), \\$
$(2,2.5,3,3.5,4;-0.6),(2,3,4,5,6;-0.2)> \\ (1.5,2.5,3.5,4.5,5.5;-0.6),(2.5,3,3.5,4,4.5;-0.8)$
<(4,5,6,7,8;0.5),(2.5,3.5,4.5,5.5,6.5;0.2).
(2.5, 3.5, 4.5, 5.5, 6.5; 0.1), (2, 3, 4, 5, 6; -0.5),
$(1.5, 2.5, 3.5, 4.5, 5.5; -0.8), (5, 5.5, 6, 6.5, 7; -0.3) > \\ (4.5, 5, 5.5, 6, 6.5; -0.3), (3, 4, 5, 6, 7; -0.6) > \\$
$<(2,2.2,2.4,2.6,2.8;0.4),(1.5,2.5,3.5,4.5,5.5,0.2),\\ <(3.5,3.6,3.7,3.8,3.9;0.7),(3.7,3.8,3.9,4.4.1;0.1),\\$
$-0.5), \hspace{35pt} (1.5, 2, 2.5, 3, 3.5; 0.5), (3.3, 3.4, 3.5, 3.6, 3.7; -0.3),$
$(1,2,3,4,5;-0.6),(1.5,2,2.5,3,3.5;-0.6)> \\ (1,3,1.5,1.7,1.9,2.1;-0.5),(4,4.1,4.2,4.3,4.4;-0.3)> \\ (1,3,1.5,1.7,1.9,2.1;-0.5),(4,4.1,4.2,4.3,4.4;-0.3)> \\ (1,3,1.5,1.7,1.9,2.1;-0.5),(4,3,4.4,4.3,4.3,4.4;-0.3)> \\ (1,3,1.5,1.7,1.9,2.1;-0.5),(4,3,3.5,3.5,3.5,3.5,3.5,3.5,3.5,3.5,3.5,3$
$<(2.5,3.5,4.5,5.5,6.5;0.4),(1,3,5,7,9;0.6), \\ <(2,3,4,5,6;0.4),(3.5,4.5,5.5,6.5,7.5;0.7),$
$(0.3, 0.4, 0.5, 0.6, 0.7; 0.2), (1.2, 1.3, 1.4, 1.5, 1.6; -0.6), \\ (1.5, 2.5, 3.5, 4.5, 5.5; 0.2), (2, 3, 4, 5, 6; -0.7), \\ (3, 4, 5, 6, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,$
(5,5.5,6,6.5,7;-0.4),(3,4,5,6,7;-0.7)>
$<(4.5,5.5,6.5,7.5,8.5,0.2),(5,5.5,6,6.5,7;0.6), \\ <(2,3,4,5,6;0.6),(1,3,5,7,9;0,6), \\ <(2,3,4,5,6;0.6),(1,3,5,7,9;0,6), \\ <(3,3,4,5,6;0.6),(1,3,5,7,9;0,6), \\ <(4,5,5,5,6,5,7,6,6,6,6,6,6,6,6,6,6,6,6,6,6$
$(2,3,4,5,6;0.6),(1,3,5,7,9;0.6),\\ (4,5,6,7,8;0.5),(2,4,6,8,10;-0.2),\\$

Table 11: BPNFS input for $\widetilde{SegT_j}$ at the j^{th} extraction and recycling center.

j = 1	j = 2	j = 3
< (0.002, 0.003, 0.004, 0.005, 0.006; 0.8),	< (0.005, 0.01, 0.015, 0.02, 0.025, 0.4),	<(0.001, 0.0015, 0.002, 0.0025, 0.003; 0.7),
(0.0002, 0.0003, 0.0004, 0.0005, 0.0006; 0.4),	(0.001, 0.003, 0.005, 0.007, 0.009; 0.5),	(0.001, 0.003, 0.005, 0.007, 0.009; 0.4),
(0.001, 0.003, 0.005, 0.007, 0.009; 0.1),	(0.009, 0.0095, 0.01, 0.0105, 0.011; 0.8),	(0.0005, 0.001, 0.0015, 0.002, 0.0025; 0.2),
(0.0005, 0.0006, 0.0007, 0.0008, 0.0009; -0.7),	(0.002, 0.004, 0.006, 0.008, 0.01; -0.2),	(0.002, 0.004, 0.006, 0.008, 0.01, -0.1),
(0.002, 0.003, 0.004, 0.005, 0.006; -0.4),	(0.001, 0.0015, 0.002, 0.0025, 0.003; -0.5),	(0.001,0.0015,0.002,0.0025,0.003;-0.3),
(0.0001, 0.0003, 0.0005, 0.0007, 0.0009; -0.3) >	(0.001, 0.003, 0.005, 0.007, 0.009; -0.6) >	(0.001, 0.003, 0.005, 0.007, 0.009; -0.4) >
j = 4	j = 5	
< (0.002, 0.004, 0.006, 0.008, 0.01; 0.4),	(0.005, 0.01, 0.015, 0.02, 0.025; 0.5),	
(0.0002, 0.0003, 0.0004, 0.0005, 0.0006; 0.6),	(0.001, 0.003, 0.005, 0.007, 0.009; 0.3),	
(0.001, 0.003, 0.005, 0.007, 0.009; 0.8),	(0.001, 0.002, 0.003, 0.004, 0.005; 0.6),	
(0.0005, 0.0006, 0.0007, 0.0008, 0.0009; -0.3),	(0.002, 0.004, 0.006, 0.008, 0.01, -0.3),	
(0.002, 0.003, 0.004, 0.005, 0.006, -0.5),	(0.001, 0.0015, 0.002, 0.0025, 0.003, -0.5),	
$(0.0001, 0.0003, 0.0005, 0.0007, 0.0009; -0.6) > \left (0.001, 0.003, 0.005, 0.007, 0.009, -0.7) > \right $	(0.001, 0.003, 0.005, 0.007, 0.009, -0.7) >	

Table 12: BPNFS input for \widehat{ExT}_j at the j^{th} extraction and recycling center.

j = 1	$j \equiv 2$	$j \equiv 3$
	•	•
< (0.2, 0.4, 0.6, 0.8, 1; 0.2), (0.2, 0.3, 0.4, 0.5, 0.6; 0.6),	$ = \langle (0.5, 0.7, 0.9, 1.1, 1.3; 0.3), (0.3, 0.4, 0.5, 0.6, 0.7; 0.5), \\ = \langle (0.4, 0.5, 0.6, 0.7, 0.8; 0.4), (0.2, 0.3, 0.4, 0.5, 0.6; 0.6), \\ = \langle (0.5, 0.7, 0.8, 0.4), (0.2, 0.3, 0.4, 0.5, 0.6; 0.6), \\ = \langle (0.5, 0.7, 0.8, 0.4), (0.2, 0.3, 0.4, 0.5, 0.6; 0.6), \\ = \langle (0.5, 0.7, 0.8, 0.4), (0.2, 0.3, 0.4, 0.5, 0.6; 0.7, 0.8, 0.4), \\ = \langle (0.5, 0.7, 0.8, 0.4), (0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.4), \\ = \langle (0.5, 0.7, 0.8, 0.4), (0.2, 0.8, 0.4), (0.2, 0.8, 0.4, 0.5, 0.6, 0.7, 0.8, 0.4), \\ = \langle (0.5, 0.7, 0.8, 0.4), (0.2, 0.8, 0.4), (0.2, 0.8, 0.4, 0.5, 0.8, 0.4), \\ = \langle (0.5, 0.7, 0.8, 0.4), (0.2, 0.8, 0.4, 0.5, 0.8, 0.4, 0.5, 0.8, 0.4), \\ = \langle (0.5, 0.7, 0.8, 0.4), (0.2, 0.8, 0.4, 0.5, 0.8, 0.4, 0.5, 0.8, 0.4), \\ = \langle (0.5, 0.7, 0.8, 0.4), (0.2, 0.8, 0.4, 0.5, 0.8, 0.4, 0.5, 0.8, 0.4), \\ = \langle (0.5, 0.7, 0.8, 0.4), (0.2, 0.8, 0.4, 0.5, 0.8, 0.4, 0.5, 0.4, 0.5, 0.8, 0.4), \\ = \langle (0.5, 0.7, 0.8, 0.4), (0.2, 0.8, 0.4, 0.5, 0.8, 0.4, 0.5, 0.8, 0.4, 0.5, 0.$	<(0.4, 0.5, 0.6, 0.7, 0.8; 0.4), (0.2, 0.3, 0.4, 0.5, 0.6; 0.6),
(0.4, 0.5, 0.6, 0.7, 0.8; 0.7), (0.1, 0.2, 0.3, 0.4, 0.5; -0.1),	(0.3, 0.6, 0.9, 1.2, 1.5, 0.6), (0.6, 0.7, 0.8, 0.9, 1, -0.4),	(0.3, 0.5, 0.7, 0.9, 1.1; 0.8), (0.3, 0.4, 0.5, 0.6, 0.7; -0.6),
(0.2, 0.3, 0.4, 0.5, 0.6; -0.5), (0.1, 0.3, 0.5, 0.7, 0.9; -0.8) >	$0.5, 0.7, 0.9; -0.8) > \\ (0.4, 0.6, 0.8, 1, 1.2; -0.7), (0.5, 0.6, 0.7, 0.9; -0.8) > \\ (0.2, 0.4, 0.6, 0.8, 1; -0.3), (0.3, 0.4, 0.5, 0.6, 0.7; -0.4) > \\ (0.2, 0.4, 0.6, 0.8, 1; -0.3), (0.3, 0.4, 0.5, 0.6, 0.7; -0.4) > \\ (0.3, 0.4, 0.6, 0.8, 1; -0.3), (0.3, 0.4, 0.5, 0.6, 0.7; -0.4) > \\ (0.4, 0.6, 0.8, 1; -0.3), (0.3, 0.4, 0.5, 0.6, 0.7; -0.4) > \\ (0.5, 0.4, 0.6, 0.8, 1; -0.3), (0.5, 0.6, 0.7; -0.4) > \\ (0.5, 0.4, 0.6, 0.8, 1; -0.3), (0.5, 0.4, 0.5, 0.6, 0.7; -0.4) > \\ (0.5, 0.4, 0.6, 0.8, 1; -0.3), (0.5, 0.4, 0.5, 0.8, 0.7; -0.4) > \\ (0.5, 0.4, 0.6, 0.8, 1; -0.3), (0.5, 0.4, 0.5, 0.8, 0.7; -0.4) > \\ (0.5, 0.4, 0.6, 0.8, 1; -0.3), (0.5, 0.8, 0.7; -0.4) > \\ (0.5, 0.4, 0.8, 0.8, 0.7; -0.8), (0.5, 0.8, 0.7; -0.4) > \\ (0.5, 0.4, 0.8, 0.8, 0.8, 0.8, 0.8, 0.8, 0.8, 0.8$	(0.2, 0.4, 0.6, 0.8, 1; -0.3), (0.3, 0.4, 0.5, 0.6, 0.7; -0.4) >
j = 4	j = 5	
< (0.1, 0.3, 0.5, 0.7, 0.9; 0.7), (0.2, 0.3, 0.4, 0.5, 0.6; 0.3),	<(0.6, 0.7, 0.8, 0.9, 1; 0.3), (0.4, 0.6, 0.8, 1, 1.2; 0.5),	
(0.3, 0.4, 0.5, 0.6, 0.7; 0.4), (0.3, 0.4, 0.5, 0.6, 0.7; -0.6),	(0.5, 0.6, 0.7, 0.8, 0.9; 0.7), (0.6, 0.8, 1, 1.2, 1.4; -0.4),	
(0.2, 0.4, 0.6, 0.8, 1; -0.3), (0.2, 0.3, 0.4, 0.5, 0.6; -0.5) >	$(0.2, 0.4, 0.6, 0.8, 1; -0.3), (0.2, 0.3, 0.4, 0.5, 0.6; -0.5) \\ \hline \\ (0.4, 0.5, 0.6, 0.7, 0.8; -0.3), (0.3, 0.4, 0.5, 0.6, 0.7; -0.6) \\ \hline \\ (0.4, 0.5, 0.6, 0.7, 0.8; -0.3), (0.3, 0.4, 0.5, 0.6, 0.7; -0.6) \\ \hline \\ (0.5, 0.4, 0.5, 0.6, 0.7, 0.8; -0.3), (0.5, 0.4, 0.5, 0.6, 0.7; -0.6) \\ \hline \\ (0.5, 0.4, 0.5, 0.6, 0.7, 0.8; -0.3), (0.5, 0.8, 0.4, 0.5, 0.6, 0.7; -0.6) \\ \hline \\ (0.5, 0.4, 0.5, 0.6, 0.7, 0.8; -0.3), (0.5, 0.8, 0.8, 0.8, 0.8, 0.8, 0.8; -0.8) \\ \hline \\ (0.5, 0.4, 0.5, 0.6, 0.7, 0.8; -0.8, 0.8, 0.8, 0.8, 0.8, 0.8, 0.8, 0.8, $	

Table 13. BPNFS input for \widehat{ReT}_j at the j^{th} extraction and recycling center.

j = 1	j = 2	j = 3
< (0.3, 0.4, 0.5, 0.6, 0.7; 0.4), (0.1, 0.2, 0.3, 0.4, 0.5; 0.6),	<((0.3, 0.5, 0.7, 0.9, 1.1; 0.8), (0.4, 0.6, 0.8, 1, 1.2; 0.4),	< (0.3, 0.4, 0.5, 0.6, 0.7; 0.6), (0.1, 0.2, 0.3, 0.4, 0.5; 0.2),
(0.4, 0.5, 0.6, 0.7, 0.8; 0.8), (0.2, 0.3, 0.4, 0.5, 0.6; -0.2),	(0.5, 0.7, 0.9, 1.1, 1.3; 0.6), (0.4, 0.5, 0.6, 0.7, 0.8; -0.7),	(0.1, 0.3, 0.5, 0.7, 0.9, 0.6), (0.2, 0.4, 0.6, 0.8, 1, -0.3),
(0.2, 0.4, 0.6, 0.8, 1; -0.8), (0.3, 0.4, 0.5, 0.6, 0.7; -0.4) >	$0.5, 0.6, 0.7; -0.4) > \left (0.5, 0.6, 0.7, 0.8, 0.9; -0.5), (0.3, 0.5, 0.7, 0.9, 1.1; -0.2) > \left (0.1, 0.2, 0.3, 0.4, 0.5; -0.5), (0.3, 0.4, 0.5, 0.6, 0.7; -0.7) > \right \\ \left (0.1, 0.2, 0.3, 0.4, 0.5; -0.5), (0.3, 0.4, 0.5, 0.6, 0.7; -0.7) > \right \\ \left (0.1, 0.2, 0.3, 0.4, 0.5; -0.5), (0.3, 0.4, 0.5, 0.6, 0.7; -0.7) > \right \\ \left (0.1, 0.2, 0.3, 0.4, 0.5; -0.5), (0.3, 0.4, 0.5, 0.6, 0.7; -0.7) > \right \\ \left (0.1, 0.2, 0.3, 0.4, 0.5; -0.5), (0.3, 0.4, 0.5; -0.7;$	(0.1, 0.2, 0.3, 0.4, 0.5; -0.5), (0.3, 0.4, 0.5, 0.6, 0.7; -0.7) >
j = 4	j = 5	
< (0.1, 0.2, 0.3, 0.4, 0.5; 0.3), (0.2, 0.3, 0.4, 0.5, 0.6; 0.6),	< (0.3, 0.5, 0.7, 0.9, 1.1; 0.5), (0.5, 0.6, 0.7, 0.8, 0.9; 0.4),	
(0.1, 0.3, 0.5, 0.7, 0.9; 0.8), (0.2, 0.3, 0.4, 0.5, 0.6; -0.1),	(0.4, 0.5, 0.6, 0.7, 0.8; 0.6), (0.5, 0.7, 0.9, 1.1, 1.3; -0.3),	
(0.3,0.4,0.5,0.6,0.7;-0.5),(0.1,0.2,0.3,0.4,0.5;-0.6)>	$0.3, 0.4, 0.5; -0.6) > \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	

Table 14: BPNFS input for \widetilde{TcrT}_{ijk} from the i^{th} collection center to the j^{th} extraction and recycling center via k^{th} conveyance.

	$ \langle (0.4, 0.6, 0.3, 1, 1.2; 0.5), (0.3, 0.1, 1.1, 1.2; -0.9), \\ (0.6, 0.7, 0.8, 0.9, 1; -0.6), (0.7, 0.9, 1.1, 1.3, 1.5; -0.5) \rangle $	$<(1,1.1,1.2,1.3,1.4;0.5),(0.8,0.9,1,1.1,1.2;0.7),\\(0.8,1,1.2,1.4,1.6;0.6),(0.9,1,1.1,1.2,1.3;-0.6),\\(0.4,0.6,0.8,1,1.2;-0.3),(0.5,0.7,0.9,1.1,1.3;-0.2)>$	< (0.6, 0.7, 0.8, 0.9, 1; 0.6), (0.2, 0.4, 0.6, 0.8, 1; 0.4), $(0.3, 0.5, 0.7, 0.9, 1.1; 0.6), (0.5, 0.6, 0.7, 0.8, 0.9; -0.7), $ $(0.7, 0.9, 1.1, 1.3, 1.5; -0.4), (0.4, 0.6, 0.8, 1, 1.2; -0.2) >$	$ \langle (0.5, 0.7, 0.9, 1.1, 1.3; 0.7), (0.4, 0.6, 0.8, 1, 1.2; 0.5), \\ (1, 1.1, 1.2, 1.3, 1.4; 0.6), (0.6, 0.8, 1, 1.2, 1.4; -0.4), \\ (1.1, 1.2, 1.3, 1.4, 1.5; -0.6), (0.5, 0.7, 0.9, 1.1, 1.3; -0.2) > $	$<(0.6, 0.7, 0.8, 0.9, 1; 0.6), (0.5, 0.7, 0.9, 1.1, 1.3; 0.3),\\ (0.4, 0.6, 0.8, 1, 1.2; 0.5), (0.3, 0.5, 0.7, 0.9, 1.1, -0.6),\\ (0.4, 0.5, 0.6, 0.7, 0.8; -0.3), (0.9, 1, 1.1, 1.2, 1.3; -0.7)>$	< (0.6, 0.8, 1, 1.2, 1.4; 0.1), (0.3, 0.5, 0.7, 0.9, 1.1; 0.4), $(1, 1.2, 1.4, 1.6, 1.8; 0.6), (0.8, 1, 1.2, 1.4, 1.6; -0.7),$ $(0.5, 0.6, 0.7, 0.8, 0.9; -0.3), (0.7, 0.9, 1.1, 1.3, 1.5; -0.4) >$
	^		() ()	(1,1,1	< (0.4 (0.4, 1	< (0.6 (1, 1. (0.5, 0.6)
k = 2 $< (0.3, 0.5, 0.7, 0.9, 1.1; 0.5), (0.2, 0.4, 0.6, 0.8, 1; 0.2), (0.9, 1.1, 1.1, 1.2, 1.3; 0.7), (0.4, 0.5, 0.6, 0.7, 0.8; 0.4), (0.1, 0.1, 0.2, 0.3, 0.7, 0.9, 0.5), (0.7, 0.8; 0.4))$ $< (0.6, 0.3, 1.1, 1.2, 1.3; 0.7), (0.4, 0.5, 0.6, 0.7, 0.8; 0.4), (0.1, 0.3, 0.5, 0.7, 0.9, 1.1, 1.3; 0.8), (0.6, 0.7, 0.8, 1.1, 1.4, 1.2, 1.3, 1.4, 1.2), (0.5, 0.7, 0.9, 1.1, 1.1, 1.2, 1.3, 1.4, 0.4), (0.6, 0.7, 0.8, 0.9, 11, 0.6), (0.4, 0.5, 0.6, 0.7, 0.8, 1.1, 1.2, 1.3, 1.4, 1.2), (0.5, 0.7, 0.9, 1.1, 1.1, 1.2, 1.3, 1.4, 1.2), (0.5, 0.7, 0.9, 1.1, 1.1, 1.2, 1.3, 1.4, 1.2), (0.5, 0.7, 0.9, 1.1, 1.1, 1.2, 1.3, 1.4, 1.2), (0.5, 0.7, 0.9, 1.1, 1.1, 1.2, 1.3, 0.7), (0.5, 0.7, 0.9, 1.1, 1.1, 1.2, 1.3, 0.4), (0.5, 0.7, 0.8, 1.1, 1.2, 1.3, 0.4), (0.4, 0.6, 0.8, 1, 1.2, 1.4, 1.2, 1.3, 0.4), (0.4, 0.6, 0.8, 1, 1.2, 1.4, 1.2, 0.6), (0.6, 0.7, 0.8, 0.9, 1.1, 1.2, 1.3, 1.4, 1.2, 1.3, 1.3, 0.7), (0.4, 0.6, 0.8, 1.1, 1.2, 1.3, 0.4), (0.6, 0.7, 0.8, 0.9, 1.1, 1.2, 1.3, 1.4, 0.5), (0.3, 0.4, 0.6, 0.7, 0.8, 0.9, 1.1, 0.6), (0.5, 0.7, 0.8, 0.9, 1.1, 0.2, 0.3), (0.5, 0.7, 0.8, 0.9, 1.1, 0.2, 0.3), (0.5, 0.7, 0.8, 0.9, 1.1, 0.2, 0.3, 0.4, 0.8, 0.1, 1.2, 1.4, 1.6; 0.6), (0.5, 0.7, 0.9, 1.1, 1.3, 1.4, 1.6; 0.6), (0.5, 0.7, 0.8, 0.9, 1.1, 0.4), (0.5, 0.7, 0.8, 0.9, 1.1, 0.4), (0.5, 0.7, 0.8, 0.9, 1.1, 0.8, 0.9, 1.1, 0.4), (0.5, 0.7, 0.8, 0.9, 1.1, 0.8, 0.9, 1.1, 0.8, 0.8, 0.8, 0.8, 0.8, 0.8, 0.8, 0.8$		$<(0.8,0.9,1,1.1,1.2;0.7),(0.6,0.7,0.8,0.9,1;0.9),\\(0.5,0.6,0.7,0.8,0.9;0.2),(0.4,0.6,0.8,1,1.2;-0.5),\\(0.4,0.5,0.6,0.7,0.8;-0.2),(0.8,1,1.2,1.4,1.6;-0.5)>$	$ < (0.4, 0.5, 0.6, 0.7, 0.8; 0.5), (0.5, 0.6, 0.7, 0.8, 0.9; 0.6), \\ (0.2, 0.4, 0.6, 0.8, 1; 0.7), (0.7, 0.8, 0.9, 1, 1.1; -0.4), \\ (0.4, 0.5, 0.6, 0.7, 0.8; -0.7), (0.3, 0.5, 0.7, 0.9, 1.1; -0.9) > $	<(0.7, 0.9, 1.1, 1.3, 1.5; 0.7), (0.6, 0.8, 1, 1.2, 1.4; 0.5), (0.4, 0.7, 1.1, 3.1.6; 0.4), (0.8, 0.9, 1, 1.1, 1.2; -0.7), (1, 1.1, 1.2, 1.3, 1.4; -0.4), (0.7, 0.9, 1.1, 1.3, 1.5; -0.6) >	$<(0.5, 0.6, 0.7, 0.8, 0.9; 0.6), (0.6, 0.8, 1, 1.2, 1.4; 0.4),\\ (0.3, 0.4, 0.5, 0.6, 0.7; 0.3), (0.8, 0.9, 1, 1.1, 1.2; -0.6),\\ (0.3, 0.4, 0.5, 0.6, 0.7; -0.7), (0.7, 0.8, 0.9, 1, 1.1; -0.3)>$	$\langle (0.6, 0.8, 1, 1.2, 1.4; 0.9), (0.7, 0.9, 1.1, 1.3, 1.5; 0.6), (0.5, 0.6, 0.7, 0.8, 0.9; 0.4), (0.6, 0.7, 0.8, 0.9, 1; -0.8), (0.7, 0.8, 0.9, 1, 1.1; -0.5), (0.8, 1, 1.2, 1.4, 1.6; -0.3) \rangle$
		$<(0.9,1,1.1,1.2,1.3;0.4), (0.6,0.7,0.8,0.9,1;0.7),\\ (1.2,1.4,1.6,1.8,2;0.2), (0.3,0.5,0.7,0.9,1.1;-0.6),\\ (1.4,1.5,1.6,1.7,1.8;-0.3), (0.8,0.9,1,1.1,1.2;-0.6)>$	$<(0.7,0.8,0.9,1,1.1;0.7),(1.1,1.2,1.3,1.4,1.5;0.3),\\(0.8,0.9,1,1.1,1.2;0.6),(0.3,0.5,0.7,0.9,1.1;-0.6),\\(0.6,0.7,0.8,0.9,1;-0.3),(0.6,0.8,1,1.2,1.4;-0.7)>$	<(0.5, 0.7, 0.9, 1.1, 1.3; 0.6), (0.8, 0.9, 1, 1.1, 1.2; 0.5), (0.7, 0.8, 0.9, 1, 1.1, 0.7), (0.5, 0.7, 0.9, 1.1, 1.3; -0.5), (0.7, 0.8, 0.9, 1, 1.1; -0.5), (0.4, 0.6, 0.8, 1, 1.2; -0.6) >	$<(1,1.1,1.2,1.3,1.4;0.5),(1,1.2,1.4,1.6,1.8;0.6),\\(0.7,0.9,1.1,1.3,1.5;0.3),(0.9,1,1.1,1.2,1.3;-0.6),\\(0.9,1.1,1.3,1.5,1.7;-0.4),(0.8,1,1.2,1.4,1.6;-0.2)>$	< (0.7, 0.8, 0.9, 1, 1.1; 0.7), (0.4, 0.6, 0.8, 1, 1.2; 0.4), $(0.6, 0.7, 0.8, 0.9, 1; 0.5), (0.3, 0.5, 0.7, 0.9, 1.1; -0.6),$ $(0.9, 1, 1.1, 1.2, 1.3; -0.3), (0.7, 0.8, 0.9, 1, 1.1; -0.5) >$

Table 15: BPNFS input for $\widetilde{TrpT_{jlk'}}$ from the j^{th} extraction and recycling center to the l^{th} pharmaceutical company via k'^{th} conveyance.

	k' = 1	k' = 2	k' = 3	2	_
< (0.3, 0	< (0.3, 0.5, 0.7, 0.9, 1.1; 0.6), (0.4, 0.6, 0.8, 1, 1.2; 0.5),	< (0.8, 0.9, 1, 1.1, 1.2; 0.6), (1, 1.1, 1.2, 1.3, 1.4; 0.4),	< (0.3, 0.5, 0.7, 0.9, 1.1; 0.8), (0.4, 0.5, 0.6, 0.7, 0.8; 0.5),		_
(0.6, 0.	(0.6, 0.7, 0.8, 0.9, 1; 0.4), (0.7, 0.8, 0.9, 1, 1.1; -0.6),	(0.4, 0.6, 0.8, 1, 1.2; 0.5), (0.5, 0.7, 0.9, 1.1, 1.3; -0.7),	(0.2, 0.4, 0.6, 0.8, 1; 0.3), (0.6, 0.7, 0.8, 0.9, 1; -0.6),	П	
(0.4, 0.6,	(0.4,0.6,0.8,1,1.2;-0.3),(0.3,0.5,0.7,0.9,1.1;-0.3)>	(0.4, 0.6, 0.8, 1, 1.2, -0.2), (0.9, 1.1, 1.3, 1.5, 1.7, -0.4) >	(0.5, 0.6, 0.7, 0.8, 0.9, -0.3), (0.4, 0.5, 0.6, 0.7, 0.8, -0.4) >		
< (0.3, 0	< (0.3, 0.4, 0.5, 0.6, 0.7; 0.9), (0.2, 0.3, 0.4, 0.5, 0.6; 0.5),	< (0.4, 0.5, 0.6, 0.7, 0.8; 0.1), (0.5, 0.7, 0.9, 1.1, 1.3; 0.3),	< (0.6, 0.7, 0.8, 0.9, 1; 0.4), (0.8, 1, 1.2, 1.4, 1.6; 0.6),		_
(0.3, 0.	(0.3, 0.5, 0.7, 0.9, 1.1; 0.3), (0.2, 0.4, 0.6, 0.8, 1; -0.6),	(0.4, 0.6, 0.8, 1, 1.2; 0.6), (0.7, 0.8, 0.9, 1, 1.1; -0.5),	(0.7, 0.9, 1.1, 1.3, 1.5; 0.8), (0.5, 0.7, 0.9, 1.1, 1.3; -0.4),	77	
(0.5, 0.6,	(0.5, 0.6, 0.7, 0.8, 0.9; -0.3), (0.1, 0.2, 0.3, 0.4, 0.5; -0.1) >	(0.4, 0.6, 0.8, 1, 1.2; -0.7), (0.8, 1, 1.2, 1.4, 1.6; -0.6) >	(0.8, 0.9, 1, 1.1, 1.2, -0.6), (1, 1.2, 1.4, 1.6, 1.8, -0.5) >		
< (0.3,	< (0.3, 0.4, 0.5, 0.6, 0.7; 0.7), (0.1, 0.3, 0.5, 0.7, 0.9; 0.4),	< (0.4, 0.6, 0.8, 1, 1.2; 0.6), (0.9, 1, 1.1, 1.2, 1.3; 0.3),	<(1, 1.2, 1.4, 1.6, 1.8; 0.6), (0.5, 0.6, 0.7, 0.8, 0.9; 0.5),		_
(0.2, 0	(0.2, 0.4, 0.6, 0.8, 1; 0.3), (0.5, 0.7, 0.9, 1.1, 1.3; -0.8),	(0.5, 0.6, 0.7, 0.8, 0.9; 0.1), (0.3, 0.5, 0.7, 0.9, 1.1; -0.7),	(0.6, 0.8, 1, 1.2, 1.4; 0.4), (1, 1.1, 1.2, 1.3, 1.4; -0.8),	г	
(0.3, 0.4,	(0.3, 0.4, 0.5, 0.6, 0.7; -0.5), (0.2, 0.3, 0.4, 0.5, 0.6; -0.3) >	(0.6, 0.7, 0.8, 0.9, 1; -0.3), (0.3, 0.5, 0.7, 0.9, 1.1; -0.5) >	(0.3, 0.5, 0.7, 0.9, 1.1; -0.6), (0.6, 0.7, 0.8, 0.9, 1; -0.2) >		
> (0:3	< (0.2, 0.4, 0.6, 0.8, 1; 0.8), (0.3, 0.4, 0.5, 0.6, 0.7; 0.7),	<(1, 1.1, 1.2, 1.3, 1.4; 0.5), (0.5, 0.7, 0.9, 1.1, 1.3; 0.8),	<(0.4, 0.6, 0.8, 1, 1.2; 0.5), (0.5, 0.7, 0.9, 1.1, 1.3; 0.4),		_
(0.3,0	(0.3, 0.5, 0.7, 0.9, 1.1; 0.3), (0.4, 0.5, 0.6, 0.7, 0.8; -0.6),	(0.6, 0.8, 1, 1.2, 1.4; 0.6), (1.1, 1.3, 1.5, 1.7, 1.9; -0.4),	(0.4, 0.7, 1, 1.3, 1.6; 0.1), (0.4, 0.5, 0.6, 0.7, 0.8; -0.4),	2	
(0.1, 0.3)	(0.1,0.3,0.5,0.7,0.9;-0.5),(0.3,0.4,0.5,0.6,0.7;-0.2)>	(0.9, 1.1, 1.3, 1.5, 1.7, -0.6), (0.7, 0.8, 0.9, 1, 1.1, -0.7) >	(0.5, 0.7, 0.9, 1.1, 1.3; -0.8), (0.3, 0.4, 0.5, 0.6, 0.7; -0.7) >		_
< (0.2	< (0.2, 0.3, 0.4, 0.5, 0.6; 0.5), (0.4, 0.5, 0.6, 0.7, 0.8; 0.4),	<(0.8,0.9,1,1.1,1.2;0.4),(0.5,0.7,0.9,1.1,1.3;0.8),	<(0.9, 1.1, 1.3, 1.5, 1.7; 0.5), (0.7, 0.9, 1.1, 1.3, 1.5; 0.4),		_
(0.3, 0	(0.3, 0.4, 0.5, 0.6, 0.7; 0.3), (0.3, 0.4, 0.5, 0.6, 0.7; -0.6),	(0.6, 0.7, 0.8, 0.9, 1; 0.6), (0.7, 0.9, 1.1, 1.3, 1.5; -0.5),	(0.6, 0.8, 1, 1.2, 1.4; 0.3), (0.5, 0.7, 0.9, 1.1, 1.3; -0.5),	1	_
(0.1, 0.3)	(0.1,0.3,0.5,0.7,0.9;-0.2),(0.2,0.3,0.4,0.5,0.6;-0.5)>	(0.4, 0.5, 0.6, 0.7, 0.8; -0.4), (1, 1.2, 1.4, 1.6, 1.8; -0.5) >	(1,1.2,1.4,1.6,1.8;-0.7),(0.4,0.6,0.8,1,1.2;-0.7)>		_
< (0.	<(0.9, 1, 1.1, 1.2, 1.3; 0.3), (0.7, 0.9, 1.1, 1.3, 1.5; 0.5),	<(1.2, 1.4, 1.6, 1.8, 2; 0.3), (0.7, 0.9, 1.1, 1.3, 1.5; 0.8),	<((0.9, 1, 1.1, 1.2, 1.3; 0.5), (0.5, 0.7, 0.9, 1.1, 1.3; 0.4),		_
(0.5,	(0.5,0.6,0.7,0.8,0.9;0.7),(0.6,0.8,1,1.2,1.4;-0.7),	(0.9, 1.1, 1.3, 1.5, 1.7; 0.6), (0.8, 1, 1.2, 1.4, 1.6; -0.6),	(0.3, 0.4, 0.5, 0.6, 0.7; 0.6), (1, 1.2, 1.4, 1.6, 1.8; -0.7),	7	_
(0.7,0	(0.7, 0.8, 0.9, 1, 1.1; -0.3), (1, 1.1, 1.2, 1.3, 1.4; -0.5) >	(0.7,0.8,0.9,1,1.1;-0.4),(0.6,0.7,0.8,0.9,1;-0.2)>	(0.2, 0.4, 0.6, 0.8, 1; -0.5), (0.5, 0.6, 0.7, 0.8, 0.9; -0.3) >		_
> (1	< (1, 1.2, 1.4, 1.6, 1.8; 0.4), (0.4, 0.6, 0.8, 1, 1.2; 0.5),	<(0.8,0.9,1,1.1,1.2;0.6),(0.9,1.1,1.3,1.5,1.7;0.3),	<(0.5, 0.7, 0.9, 1.1, 1.3; 0.7), (0.8, 0.9, 1, 1.1, 1.2; 0.4),		_
(0.9	(0.9,1,1.1,1.2,1.3;0.2),(0.7,0.8,0.9,1,1.1;-0.5),	(0.8, 1, 1.2, 1.4, 1.6; 0.5), (1, 1.2, 1.4, 1.6, 1.8; -0.7),	(0.4, 0.6, 0.8, 1, 1.2; 0.5), (0.6, 0.7, 0.8, 0.9, 1; -0.6),	-	_
(0.8,	0.8,1,1.2,1.4,1.6;-0.6),(1,1.1,1.2,1.3,1.4;-0.2)>	(1, 1.1, 1.2, 1.3, 1.4, -0.4), (0.7, 0.9, 1.1, 1.3, 1.5, -0.3) >	(0.6, 0.8, 1, 1.2, 1.4, -0.2), (0.7, 0.8, 0.9, 1, 1.1, -0.5) >		_
< (0.	<(0.9,1,1.1,1.2,1.3;0.5),(0.5,0.7,0.9,1.1,1.3;0.4),	< (1.2, 1.3, 1.4, 1.5, 1.6; 0.9), (0.5, 0.6, 0.7, 0.8, 0.9; 0.6),	<(0.9, 1.1, 1.3, 1.5, 1.7; 0.9), (0.9, 1, 1.1, 1.2, 1.3; 0.6),		_
(0.3,	(0.3,0.4,0.5,0.6,0.7;0.6),(1,1.2,1.4,1.6,1.8,-0.7),	(0.9, 1.1, 1.3, 1.5, 1.7; 0.5), (0.6, 0.8, 1, 1.2, 1.4; -0.4),	(0.5, 0.6, 0.7, 0.8, 0.9; 0.4), (1, 1.1, 1.2, 1.3, 1.4; -0.2),	7	
(0.2, 0.	(0.2,0.4,0.6,0.8,1;-0.5),(0.5,0.6,0.7,0.8,0.9;-0.3)>	(1, 1.1, 1.2, 1.3, 1.4, -0.8), (0.7, 0.8, 0.9, 1, 1.1, -0.5) >	(0.7, 0.8, 0.9, 1, 1.1; -0.6), (1, 1.2, 1.4, 1.6, 1.8; -0.5) >		_
< (1,	<(1, 1.1, 1.2, 1.3, 1.4; 0.8), (0.7, 0.9, 1.1, 1.3, 1.5; 0.5),	<(0.6, 0.8, 1, 1.2, 1.4; 0.4), (0.5, 0.6, 0.7, 0.8, 0.9; 0.6),	< (0.5, 0.6, 0.7, 0.8, 0.9; 0.6), (0.4, 0.6, 0.8, 1, 1.2; 0.3),		_
(0.7,	(0.7,0.8,0.9,1,1.1;0.3),(0.6,0.8,1,1.2,1.4;-0.1),	(0.8, 0.9, 1, 1.1, 1.2; 0.9), (0.6, 0.8, 1, 1.2, 1.4; -0.8),	(0.6, 0.7, 0.8, 0.9, 1; 0.5), (0.6, 0.8, 1, 1.2, 1.4; -0.6),	П	
(1, 1.2)	(1,1.2,1.4,1.6,1.8;-0.7),(0.6,0.7,0.8,0.9,1;-0.3)>	(0.7,0.8,0.9,1,1.1;-0.4),(0.9,1,1.1,1.2,1.3;-0.2)>	(0.9,1,1.1,1.2,1.3;-0.2),(0.3,0.4,0.5,0.6,0.7;-0.4)>		_
< (0.	< (0.5, 0.6, 0.7, 0.8, 0.9; 0.5), (0.4, 0.6, 0.8, 1, 1.2; 0.3),	<(0.5, 0.7, 0.9, 1.1, 1.3; 0.7), (0.6, 0.7, 0.8, 0.9, 1; 0.4),	< (0.5, 0.6, 0.7, 0.8, 0.9; 0.4), (0.1, 0.3, 0.5, 0.7, 0.9; 0.7),		
(1, 1.	(1, 1.1, 1.2, 1.3, 1.4; 0.4), (0.5, 0.7, 0.9, 1.1, 1.3; -0.2),	(0.4, 0.5, 0.6, 0.7, 0.8; 0.3), (0.5, 0.6, 0.7, 0.8, 0.9; -0.1),	(0.2, 0.3, 0.4, 0.5, 0.6; 0.5), (0.4, 0.5, 0.6, 0.7, 0.8; -0.1),	2	_
(1.1, 1.2)	(1.1, 1.2, 1.3, 1.4, 1.5; -0.4), (0.4, 0.5, 0.6, 0.7, 0.8; -0.6) >	(0.3, 0.5, 0.7, 0.9, 1.1; -0.6), (0.6, 0.7, 0.8, 0.9, 1; -0.5) >	(0.2, 0.3, 0.4, 0.5, 0.6; -0.4), (0.4, 0.5, 0.6, 0.7, 0.8; -0.7) >		

Table 16: BPNFS input for $\widetilde{TrmT_{jmk''}}$ from the j^{th} extraction and recycling center to the m^{th} manufacturing company via k''^{th} conveyance.

$k'' \equiv 1$	1	$k^{\prime\prime} \equiv 2$	$k'' \equiv 3$	m
< (1, 1.1, 1.2, 1.3, 1.4; 0.3), (0.8, 0.9, 1, 1.1, 1.2; 0.4),				
		(0.7, 0.8, 0.9, 1, 1.1; 0.4), (0.9, 1, 1.1, 1.2, 1.3; -0.6),	(0.9, 1, 1.1, 1.2, 1.3; 0.3), (0.7, 0.8, 0.9, 1, 1.1; -0.5),	н
(0.9, 1.1, 1.3, 1.5, 1.7; -0.2), (0.7, 0.8, 0.9, 1, 1.1; -0.4) >		(0.5, 0.6, 0.7, 0.8, 0.9, -0.3), (0.4, 0.5, 0.6, 0.7, 0.8, -0.4) >	(0.6, 0.8, 1, 1.2, 1.4, -0.4), (0.7, 0.9, 1.1, 1.3, 1.5, -0.1) >	
< (0.4, 0.5, 0.6, 0.7, 0.8; 0.2), (0.2, 0.3, 0.4, 0.5, 0.6; 0.4),		< (0.8, 0.9, 1, 1.1, 1.2, 0.5), (0.5, 0.6, 0.7, 0.8, 0.9, 0.3),	<(1, 1.1, 1.2, 1.3, 1.4; 0.6), (0.7, 0.9, 1.1, 1.3, 1.5; 0.5),	
(0.4, 0.6, 0.8, 1, 1.2; 0.7), (0.2, 0.3, 0.4, 0.5, 0.6; -0.9),	_	(0.5, 0.6, 0.7, 0.8, 0.9; 0.2), (0.4, 0.6, 0.8, 1, 1.2; -0.4),	(0.4, 0.5, 0.6, 0.7, 0.8; 0.2), (0.6, 0.7, 0.8, , 0.9, 1; -0.4),	7
(0.1, 0.3, 0.5, 0.7, 0.9; -0.2), (0.3, 0.4, 0.5, 0.6, 0.7; -0.6) >		(0.7, 0.9, 1.1, 1.3, 1.5, -0.6), (0.6, 0.7, 0.8, 0.9, 1; -0.5) >	(1,1.1,1.2,1.3,1.4;-0.6),(0.8,1,1.2,1.4,1.6;-0.7) >	
(0.7, 0.8, 0.9, 1, 1.1; 0.2), (0.9, 1, 1.1; 1.2, 1.3; -0.7),		(1, 1.2, 1.4, 1.6, 1.8; 0.3), (0.7, 0.8, 0.9, 1, 1.1; 1.0; 0.4),	$\langle (0.9, 1.1, 1.9, 1.9, 1.1, 0.9), (1, 1.1, 1.2, 1.2, 1.3, 1.3, 0.9), (0.6, 0.7, 0.8, 0.9, 1; 0.6), (0.8, 1, 1.2, 1.4, 1.6; -0.3),$	n
(0.3, 0.5, 0.7, 0.9, 1.1; -0.4), (0.5, 0.6, 0.7, 0.8, 0.9; -0.2) >		(0.7, 0.9, 1.1, 1.3, 1.5, -0.5), (0.8, 0.9, 1, 1.1, 1.2, -0.3) >	(0.9, 1, 1.1, 1.2, 1.3; -0.5), (0.8, 0.9, 1, 1.1, 1.2; -0.4) >	
< (0.6, 0.7, 0.8, 0.9, 1; 0.7), (0.7, 0.8, 0.9, 1, 1.1; 0.3),		< (0.5, 0.7, 0.9, 1.1, 1.3; 0.4), (0.5, 0.6, 0.7, 0.8, 0.9; 0.5),	< (0.7, 0.9, 1.1, 1.3, 1.5; 0.5), (0.4, 0.6, 0.8, 1, 1.2; 0.3),	
(0.5, 0.7, 0.9, 1.1, 1.3; 0.4), (0.5, 0.6, 0.7, 0.8, 0.9, -0.4),		(0.6, 0.7, 0.8, 0.9, 1; 0.6), (0.2, 0.4, 0.6, 0.8, 1; -0.9),	(0.5, 0.6, 0.7, 0.8, 0.9; 0.4), (0.8, 0.9, 1, 1.1, 1.2; -0.5),	п
(0.7, 0.8, 0.9, 1, 1.1; -0.8), (0.3, 0.5, 0.7, 0.9, 1.1; -0.6) >		(0.4, 0.5, 0.6, 0.7, 0.8; -0.4), (0.3, 0.4, 0.5, 0.6, 0.7; -0.3) >	(1, 1.1, 1.2, 1.3, 1.4; -0.6), (0.7, 0.8, 0.9, 1, 1.1; -0.7) >	
<(0.4, 0.5, 0.6, 0.7, 0.8; 0.6), (0.4, 0.6, 0.8, 1, 1.2; 0.3),		<(1,1.1,1.2,1.3,1.4;0.3),(0.7,0.8,0.9,1,1.1;0.5),	<(1, 1.1, 1.2, 1.3, 1.4; 0.5), (1.3, 1.5, 1.7, 1.9, 2.1; 0.7),	
(0.6, 0.8, 1.1.2, 1.4; -0.6), (0.3, 0.4, 0.5, 0.6, 0.7; -0.4)		(0.9, 1.1.3.1.5, 1.4, 1.0) (0.0) , $(0.0, 0.1, 0.0)$, $(0.0, 1.1.3.1.5, 1.7; -0.2)$,	(0.0, 0.0, 1, 1.2, 1.4, 0.0), (0.0, 1, 1.1, 1.2, 1.3, -0.3), (1.1, 1.3, 1.5, 1.7, 1.9; -0.6), (1.2, 1.3, 1.4, 1.5, 1.6; -0.7) >	۹
<(0.4,0.6,0.8,1,1.2;0.4),(0.3,0.4,0.5,0.6,0.7;0.8),		<(0.2, 0.3, 0.4, 0.5, 0.6; 0.6), (0.1, 0.3, 0.5, 0.7, 0.9; 0.2),	<(0.6, 0.7, 0.8, 0.9, 1; 0.6), (0.5, 0.7, 0.9, 1.1, 1.3; 0.7),	
(0.9, 1, 1.1, 1.2, 1.3; 0.6), (0.8, 0.9, 1, 1.1, 1.2; -0.5),		(0.3, 0.4, 0.5, 0.6, 0.7; 0.4), (0.2, 0.4, 0.6, 0.8, 1; -0.7),	(0.7, 0.8, 0.9, 1, 1.1; 0.4), (0.4, 0.5, 0.6, 0.7, 0.8; -0.3),	8
(0.6, 0.7, 0.8, 0.9, 1; -0.6), (0.5, 0.7, 0.9, 1.1, 1.3; -0.3) >		(0.3, 0.4, 0.5, 0.6, 0.7; -0.5), (0.4.0.5, 0.6, 0.7, 0.8; -0.4) >	(0.4, 0.6, 0.8, 1, 1.2; -0.4), (0.2, 0.3, 0.4, 0.5, 0.6; -0.6) >	
< (0.6, 0.7, 0.8, 0.9, 1; 0.3), (0.4, 0.6, 0.8, 1, 1.2; 0.5),		< (0.6, 0.8, 1, 1.2, 1.4; 0.3), (0.5, 0.7, 0.9, 1.1, 1.3; 0.6),	<(1.2,1.3,1.4,1.5,1.6;0.5),(0.5,0.6,0.7,0.8,0.9;0.3),	
		(0.5, 0.6, 0.7, 0.8, 0.9; 0.7), (0.7, 0.8, 0.9, 1, 1.1; -0.8),	(0.6, 0.8, 1, 1.2, 1.4; 0.4), (0.5, 0.7, 0.9, 1.1, 1.3; -0.5),	-
^	٥	(0.3, 0.4, 0.5, 0.6, 0.7; -0.5), (0.4, 0.6, 0.8, 1, 1.2; -0.4) >	(1.1, 1.2, 1.3, 1.4, 1.5; -0.3), (0.7, 0.8, 0.9, 1, 1.1; -0.5) >	
		< (0.5, 0.6, 0.7, 0.8, 0.9; 0.8), (0.3, 0.5, 0.7, 0.9, 1.1; 0.6),	< (0.5, 0.6, 0.7, 0.8, 0.9; 0.3), (0.6, 0.8, 1, 1.2, 1.4; 0.4),	
		(0.6, 0.7, 0.8, 0.9, 1; 0.2), (0.6, 0.8, 1, 1.2, 1.4; -0.1),	(0.4, 0.6, 0.8, 1, 1.2; 0.5), (0.5, 0.7, 0.9, 1.1, 1.3; -0.1),	7
	(0.5	(0.5, 0.7, 0.9, 1.1, 1.3, -0.8), (0.5, 0.6, 0.7, 0.8, 0.9, -0.7) >	(0.8, 0.9, 1, 1.1, 1.2; -0.6), (0.5, 0.6, 0.7, 0.8, 0.9; -0.2) >	
< (0.6, 0.7, 0.8, 0.9, 1; 0.9), (1.1, 1.2, 1.3, 1.4, 1.5; 0.6), < (0.6, 0.7, 0.1, 1.9, 1.5, 0.9), (0.8, 1.1, 9.1, 1.6, 0.6)		< (0.9, 1.1, 1.3, 1.5, 1.7; 0.7), (0.4, 0.6, 0.8, 1, 1.2; 0.3), < (0.9, 1.1, 1.3, 1.5, 1.7; 0.7), (0.4, 0.6, 0.8, 1, 1.2; 0.3),	< (0.6, 0.7, 0.8, 0.9, 1; 0.5), (0.5, 0.6, 0.7, 0.8, 0.9; 0.6),	0
		(1, 1.2, 1.4, 1.6, 1.8; -0.2), (0.5, 0.7, 0.9, 1.1, 1.3; -0.3) >	(0.4, 0.5, 0.6, 0.7, 0.8; -0.4), (0.4, 0.6, 0.8, 1, 1.2; -0.6) >	
H	Ľ	< (0.5, 0.7, 0.9, 1.1, 1.3, 0.2), (0.8, 1, 1.2, 1.4, 1.6, 0.3),	< (0.6, 0.7, 0.8, 0.9, 1; 0.5), (0.3, 0.5, 0.7, 0.9, 1.1; 0.4),	
(0.4, 0.5, 0.6, 0.7, 0.8; 0.3), (0.6, 0.8, 1, 1.2, 1.4; -0.5),	_	(0.8, 0.9, 1, 1.1, 1.2; 0.5), (0.6, 0.8, 1, 1.2, 1.4; -0.9),	(0.4, 0.5, 0.6, 0.7, 0.8; 0.2), (0.3, 0.4, 0.5, 0.6, 0.7; -0.6),	-
(0.7, 0.9, 1.1, 1.3, 1.5, -0.4), (1, 1.2, 1.4, 1.6, 1.8, -0.1) >		(0.7, 0.8, 0.9, 1, 1.1; -0.6), (0.6, 0.7, 0.8, 0.9, 1; -0.8) >	(0.5, 0.6, 0.7, 0.8, 0.9; -0.4), (0.5, 0.6, 0.7, 0.8, 0.9; -0.6) >	
<(0.7, 0.8, 0.9, 1, 1.1; 0.3), (0.3, 0.5, 0.7, 0.9, 1.1; 0.6),		< (0.6, 0.7, 0.8, 0.9, 1; 0.6), (0.5, 0.7, 0.9, 1.1, 1.3; 0.5),	< (0.6, 0.8, 1, 1.2, 1.4; 0.6), (0.8, 1, 1.2, 1.4, 1.6; 0.3),	
(0.4, 0.5, 0.6, 0.7, 0.8; 0.8), (0.3, 0.4, 0.5, 0.6, 0.7; -0.4),		(1.2, 1.4, 1.6, 1.8, 2; 0.3), (0.9, 1.1, 1.3, 1.5, 1.7; -0.2),	(0.7, 0.8, 0.9, 1, 1.1; 0.7), (0.7, 0.8, 0.9, 1, 1.1; -0.7),	73
(0.6, 0.7, 0.8, 0.9, 1; -0.6), (0.5, 0.6, 0.7, 0.8, 0.9; -0.2) >		(0.7, 0.8, 0.9, 1, 1.1; -0.6), (0.5, 0.7, 0.9, 1.1, 1.3; -0.8) >	(0.6, 0.8, 1, 1.2, 1.4; -0.5), (0.6, 0.7, 0.8, 0.9, 1; -0.8) >	
< (0.5, 0.6, 0.7, 0.8, 0.9; 0.6), (0.4, 0.5, 0.6, 0.7, 0.8; 0.3),		< (0.5, 0.7, 0.9, 1.1, 1.3, 0.5), (0.6, 0.8, 1, 1.2, 1.4, 0.2),	<(0.5, 0.6, 0.7, 0.8, 0.9; 0.5), (0.5, 0.7, 0.9, 1.1, 1.3; 0.3),	
(0.1,0.3,0.5,0.7,0.9;0.7),(0.2,0.3,0.4,0.5,0.6;-0.5),		(1, 1.1, 1.2, 1.3, 1.4; 0.1), (0.7, 0.9, 1.1, 1.3, 1.5; -0.5),	(1.2, 1.4, 1.6, 1.8, 2; 0.7), (0.7, 0.9, 1.1, 1.3, 1.5; -0.7),	က
(0.4, 0.5, 0.6, 0.7, 0.8; -0.8), (0.6, 0.7, 0.8, 0.9, 1; -0.3) >		(0.6, 0.7, 0.8, 0.9, 1; -0.3), (0.5, 0.6, 0.7, 0.8, 0.9; -0.6) >	(0.8, 0.9, 1, 1.1, 1.2, -0.3), (0.5, 0.7, 0.9, 1.1, 1.3, -0.6) >	
< (0.6, 0.8, 1, 1.2, 1.4; 0.4), (0.7, 0.8, 0.9, 1, 1.1; 0.2),		(0.3, 0.4, 0.5, 0.6, 0.7; 0.7), (0.4, 0.6, 0.8, 1, 1.2; 0.1),	< (0.5, 0.6, 0.7, 0.8, 0.9; 0.5), (0.6, 0.8, 1, 1.2, 1.4; 0.1),	
(0.8, 1, 1.2, 1.4, 1.6; 0.5), (0.7, 0.9, 1.1, 1.3, 1.5; -0.5),		(0.1, 0.2, 0.3, 0.4, 0.5; 0.5), (0.2, 0.4, 0.6, 0.8, 1; -0.3),	(0.5, 0.7, 0.9, 1.1, 1.3; 0.6), (0.6, 0.7, 0.8, 0.9, 1; -0.5),	-
(0.9, 1, 1.1, 1.2, 1.3, -0.6), (0.8, 0.9, 1, 1.1, 1.2, -0.6) >	_	(0.1, 0.3, 0.5, 0.7, 0.9, -0.5), (0.2, 0.3, 0.4, 0.5, 0.6, -0.3) >	(0.8, 0.9, 1, 1.1, 1.2; -0.4), (0.3, 0.4, 0.5, 0.6, 0.7; -0.5) >	
< (0.4, 0.5, 0.6, 0.7, 0.8; 0.4), (0.3, 0.5, 0.7, 0.9, 1.1; 0.6),		< (0.7, 0.9, 1.1, 1.3, 1.5; 0.4), (0.8, 1, 1.2, 1.4, 1.6; 0.7),	< (0.3, 0.5, 0.7, 0.9, 1.1; 0.6), (0.1, 0.2, 0.3, 0.4, 0.5; 0.3),	
(0.1, 0.3, 0.5, 0.7, 0.9; 0.2), (0.2, 0.4, 0.6, 0.8, 1; -0.6),	_	(1.1, 1.2, 1.3, 1.4, 1.5, 0.2), (1, 1.2, 1.4, 1.6, 1.8, -0.7),	(0.5, 0.6, 0.7, 0.8, 0.9; 0.5), (0.5, 0.7, 0.9, 1.1, 1.3; -0.8),	61
(0.2, 0.3, 0.4, 0.5, 0.6; -0.3), (0.5, 0.6, 0.7, 0.8, 0.9; -0.7) >	_	(0.7, 0.8, 0.9, 1, 1.1; -0.4), (0.6, 0.8, 1, 1.2, 1.4; -0.7) >	(0.5, 0.6, 0.7, 0.8, 0.9; -0.3), (0.7, 0.8, 0.9, 1, 1.1; -0.7) >	
<(0.6, 0.8, 1, 1.2, 1.4; 0.2), (0.5, 0.7, 0.9, 1.1, 1.3; 0.6),	_	< (0.7, 0.8, 0.9, 1, 1.1; 0.8), (0.6, 0.7, 0.8, 0.9, 1; 0.6),	< (0.7, 0.9, 1.1, 1.3, 1.5; 0.6), (0.6, 0.7, 0.8, 0.9, 1; 0.3),	
(1, 1.1, 1.2, 1.3, 1.4; 0.6), (0.6, 0.7, 0.8, 0.9, 1; -0.4),	_	(0.5, 0.7, 0.9, 1.1, 1.3; 0.5), (0.4, 0.6, 0.8, 1, 1.2; -0.4),	(1, 1.1, 1.2, 1.3, 1.4; 0.6), (0.9, 1, 1.1, 1.2, 1.3; -0.8),	es
(0.8,0.9,1,1.1,1.2;-0.2),(0.8,1,1.2,1.4,1.6;-0.7)>		(0.5, 0.6, 0.7, 0.8, 0.9; -0.6), (0.7, 0.9, 1.1, 1.3, 1.5; -0.3)) >	(0.7,0.8,0.9,1,1.1;-0.4),(0.6,0.8,1,1.2,1.4;-0.2)>	

Table 17: BPNFS input for $\widetilde{ExE_j}$ at the j^{th} extraction and recycling center.

j = 1	j = 2	j = 3
< (0.15, 0.16, 0.17, 0.18, 0.19; 0.7), (0.1, 0.12, 0.14, 0.16, 0.18; 0.3),	< (0.2, 0.21, 0.22, 0.23, 0.24; 0.3), (0.1, 0.12, 0.14, 0.16, 0.18; 0.5),	< (0.12, 0.14, 0.16, 0.18, 0.2; 0.4), (0.08, 0.09, 0.1, 0.11, 0.12; 0.6),
(0.05, 0.06, 0.07, 0.08, 0.09; 0.4), (0.22, 0.24, 0.26, 0.28, 0.3; -0.6),	(0.1,0.15,0.2,0.25,0.3;0.6),(0.22,0.24,0.26,0.28,0.3;-0.4),	(0.22, 0.23, 0.24, 0.25, 0.26; 0.8), (0.2, 0.22, 0.24, 0.26, 0.28; -0.6),
(0.03, 0.04, 0.05, 0.06, 0.07; -0.3), (0.1, 0.11, 0.12, 0.13, 0.14; -0.5) > 0.000, 0	(0.13, 0.14, 0.15, 0.16, 0.17; -0.7), (0.1, 0.11, 0.12, 0.13, 0.14; -0.8) > 0.13, 0.14; -0.80, 0.	$(0.13, 0.14, 0.15, 0.16, 0.17; -0.7), (0.1, 0.11, 0.12, 0.13, 0.14; -0.8) > \\ \\ (0.05, 0.06, 0.07, 0.08, 0.09; -0.3), (0.13, 0.14, 0.15, 0.16, 0.17; -0.4) > \\ \\ (0.05, 0.06, 0.07, 0.08, 0.09; -0.3), (0.13, 0.14, 0.15, 0.16, 0.17; -0.4) > \\ \\ (0.13, 0.14, 0.15, 0.16, 0.17; -0.4) > \\ \\ (0.13, 0.14, 0.15, 0.16, 0.17; -0.4) > \\ \\ (0.13, 0.14, 0.15, 0.16, 0.17; -0.4) > \\ \\ (0.13, 0.14, 0.15, 0.16, 0.17; -0.4) > \\ \\ (0.14, 0.15, 0.16, 0.17; -0.18, 0.17; -0.18) > \\ \\ (0.14, 0.15, 0.16, 0.17; -0.18) > \\ \\ (0.14, 0.15, 0.16, 0.17; -0.18) > \\ \\ (0.14, 0.15, 0.16, 0.17; -0.18) > \\ \\ (0.14, 0.15, 0.16, 0.17; -0.18) > \\ \\ (0.14, 0.15, 0.16, 0.17; -0.18) > \\ \\ (0.14, 0.15, 0.16, 0.17; -0.18) > \\ \\ (0.14, 0.15, 0.18; -0.18) > \\ \\ (0.14, 0.15, 0.18; -0.18) > \\ \\ (0.14, 0.15, 0.18; -0.18) > \\ \\ (0.14, 0.15, 0.18; -0.18) > \\ \\ (0.14, 0.15, 0.18; -0.18) > \\ \\ (0.14, 0.15, 0.18; -0.18) > \\ \\ (0.14, 0.18; -0.18; -0.18) > \\ \\ (0.14, 0.18; -0.18; -0.18; -0.18) > \\ \\ (0.14, 0.18; -0$
j = 4	j = 5	
<(0.15, 0.16, 0.17, 0.18, 0.19; 0.2), (0.1, 0.12, 0.14, 0.16, 0.18; 0.5),	< (0.2, 0.21, 0.22, 0.23, 0.24; 0.2), (0.1, 0.12, 0.14, 0.16, 0.18; 0.6),	
(0.1, 0.11, 0.12, 0.13, 0.14; 0.7), (0.22, 0.24, 0.26, 0.28, 0.3; -0.1),	(0.1, 0.15, 0.2, 0.25, 0.3; 0.7), (0.22, 0.24, 0.26, 0.28, 0.3; -0.1),	
(0.11, 0.12, 0.13, 0.14, 0.15; -0.3), (0.1, 0.11, 0.12, 0.13, 0.14; -0.5) > 0.13, 0.14; -0.5) > 0.13, 0.14; -0.5	$ \left \; (0.13, 0.14, 0.15, 0.16, 0.17; -0.5), (0.1, 0.11, 0.12, 0.13, 0.14; -0.8) > \; \right $	

Table 18: BPNFS input for $\widetilde{ReE_j}$ at the j^{th} extraction and recycling center.

j = 1	j = 2	j = 3
< (0.11, 0.12, 0.13, 0.14, 0.15; 0.4), (0.06, 0.08, 0.1, 0.12, 0.14; 0.7),	< (0.05, 0.06, 0.07, 0.08, 0.09; 0.7), (0.02, 0.04, 0.06, 0.08, 0.1; 0.3),	< (0.08, 0.1, 0.12, 0.14, 0.16; 0.4), (0.06, 0.08, 0.1, 0.12, 0.14; 0.6),
(0.08, 0.09, 0.1, 0.11, 0.12; 0.8), (0.05, 0.07, 0.09, 0.11, 0.13; -0.6),	(0.04, 0.05, 0.06, 0.07, 0.08; 0.4), (0.03, 0.04, 0.05, 0.06, 0.07; -0.6),	(0.04, 0.05, 0.06, 0.07, 0.08; 0.8), (0.05, 0.07, 0.09, 0.11, 0.13; -0.6),
(0.04, 0.06, 0.08, 0.1, 0.12; -0.1), (0.09, 0.11, 0.13, 0.15, 0.17; -0.5) >	$(0.03, 0.05, 0.07, 0.09, 0.11; -0.3), (0.04, 0.06, 0.08, 0.1, 0.12; -0.5) \\ = (0.02, 0.04, 0.06, 0.08, 0.1; -0.3), (0.09, 0.1, 0.11, 0.12, 0.13; -0.4) \\ > (0.02, 0.04, 0.06, 0.08, 0.1; -0.3), (0.09, 0.1, 0.11, 0.12, 0.13; -0.4) \\ > (0.03, 0.05, 0.05, 0.05, 0.06, 0.08, 0.11; -0.3), (0.03, 0.10, 0.11, 0.12, 0.13; -0.4) \\ > (0.03, 0.05$	(0.02, 0.04, 0.06, 0.08, 0.1; -0.3), (0.09, 0.1, 0.11, 0.12, 0.13; -0.4) >
j = 4	j = 5	
<(0.07,0.09,0.11,0.13,0.15;0.2),(0.04,0.06,0.08,0.1,0.12;0.5),	<(0.1,0.12,0.14,0.16,0.18;0.2),(0.06,0.08,0.1,0.12,0.14;0.6),	
(0.06, 0.07, 0.08, 0.09, 0.1; 0.7), (0.05, 0.07, 0.09, 0.11, 0.13; -0.1),	(0.05, 0.06, 0.07, 0.08, 0.09; 0.7), (0.05, 0.07, 0.09, 0.11, 0.13; -0.1),	
(0.03, 0.05, 0.07, 0.09, 0.11; -0.3), (0.04, 0.06, 0.08, 0.1, 0.12; -0.5) >	(0.02, 0.04, 0.06, 0.08, 0.1; -0.5), (0.09, 0.1, 0.11, 0.12, 0.13; -0.8) >	

Table 19: BPNFS input for $\widehat{TrpE_{jlk'}}$ from the j^{th} extraction and recycling center to the l^{th} pharmaceutical company via k'^{th} conveyance.

1	1			61			1			61			1			73			1			73			1			7	
k' = 3	< (0.06, 0.07, 0.08, 0.09, 0.1; 0.4), (0.01, 0.011, 0.012, 0.013, 0.014; 0.5), (0.09, 0.091, 0.092, 0.093, 0.094; 0.7), (0.04, 0.05, 0.06, 0.07, 0.08; -0.6),	(0.02, 0.04, 0.06, 0.08, 0.1; -0.3), (0.1, 0.11, 0.12, 0.13, 0.14; -0.4) >	< (0.23, 0.24, 0.25, 0.26, 0.27; 0.2), (0.21, 0.23, 0.25, 0.27, 0.29; 0.5),	(0.15, 0.16, 0.17, 0.18, 0.19; 0.6), (0.15, 0.17, 0.19, 0.21, 0.23, -0.5),	(0.19, 0.21, 0.23, 0.25, 0.27, -0.7), (0.22, 0.23, 0.24, 0.25, 0.26, -0.6) >	<(0.2, 0.21, 0.22, 0.23, 0.24; 0.6), (0.3, 0.31, 0.32, 0.33, 0.34; 0.5),	(0.1, 0.12, 0.14, 0.16, 0.18; 0.4), (0.22, 0.24, 0.26, 0.28, 0.3; -0.8),	(0.35, 0.37, 0.39, 0.41, 0.43; -0.6), (0.28, 0.29, 0.3, 0.31, 0.32; -0.2) >	<(0.04, 0.045, 0.05, 0.055, 0.06; 0.5), (0.01, 0.02, 0.03, 0.04, 0.05; 0.4),	(0.1,0.11,0.12,0.13,0.14;0.1),(0.06,0.061,0.062,0.063,0.064;-0.4),	(0.03, 0.035, 0.04, 0.045, 0.05; -0.8), (0.11, 0.12, 0.13, 0.14, 0.15; -0.7) >	< (0.05, 0.052, 0.054, 0.056, 0.058; 0.5), (0.01, 0.02, 0.03, 0.04, 0.05; 0.4),	(0.1, 0.11, 0.12, 0.13, 0.14; 0.3), (0.04, 0.05, 0.06, 0.07, 0.08; -0.5),	$\left (0.077, 0.078, 0.079, 0.08, 0.081; -0.7), (0.06, 0.07, 0.08, 0.09, 0.1; -0.7) > \right.$	<(0.14, 0.17, 0.2, 0.23, 0.26, 0.3), (0.2, 0.22, 0.24, 0.26, 0.28, 0.7),	(0.17,0.2,0.23,0.26,0.29;0.6),(0.2,0.21,0.22,0.23,0.24;-0.5),	(0.16,0.18,0.2,0.22,0.24;-0.7),(0.24,0.26,0.28,0.3,0.32;-0.8)>	<(0.2, 0.22, 0.24, 0.26, 0.28; 0.1), (0.15, 0.17, 0.19, 0.21, 0.23; 0.4),	(0.2, 0.21, 0.22, 0.23, 0.24; 0.5), (0.16, 0.17, 0.18, 0.19, 0.2; -0.6),	(0.24, 0.26, 0.28, 0.3, 0.32; -0.2), (0.12, 0.13, 0.14, 0.15, 0.16; -0.5) >	< (0.1, 0.11, 0.12, 0.13, 0.14; 0.9), (0.09, 0.1, 0.11, 0.12, 0.13; 0.6),	(0.1, 0.12, 0.14, 0.16, 0.18; 0.4), (0.06, 0.08, 0.1, 0.12, 0.14; -0.2),	(0.2,0.21,0.22,0.23,0.24;-0.6),(0.08,0.09,0.1,0.11,0.12;-0.5)>	<(0.09, 0.1, 0.11, 0.12, 0.13; 0.6), (0.1, 0.12, 0.14, 0.16, 0.18; 0.3),	(0.17,0.18,0.19,0.2,0.21;0.5),(0.06,0.08,0.1,0.12,0.14;-0.6),	(0.1,0.11,0.12,0.13,0.14;-0.2),(0.13,0.14,0.15,0.16,0.17;-0.4)>	<(0.25, 0.3, 0.35, 0.4, 0.45, 0.2), (0.33, 0.34, 0.35, 0.36, 0.37, 0.5),	(0.4, 0.41, 0.42, 0.43, 0.44; 0.7), (0.14, 0.16, 0.18, 0.2, 0.22; -0.1),	(0.24, 0.25, 0.26, 0.27, 0.28, -0.4), (0.26, 0.27, 0.28, 0.29, 0.3, -0.8) >
k' = 2	$< (0.3, 0.32, 0.34, 0.36, 0.38; 0.8), (0.23, 0.24, 0.25, 0.26, 0.27; 0.3), \\ (0.41, 0.42, 0.43, 0.44, 0.45; 0.2), (0.25, 0.26, 0.27, 0.28, 0.29; -0.7), \\$	(0.45, 0.46, 0.47, 0.48, 0.49; -0.3), (0.12, 0.13, 0.14, 0.15, 0.16; -0.1) >	<(0.12, 0.13, 0.14, 0.15, 0.16; 0.3), (0.04, 0.07, 0.1, 0.13, 0.16; 0.5),	(0.2,0.21,0.22,0.23,0.24;0.6),(0.13,0.14,0.15,0.16,0.17;-0.1),	(0.16, 0.17, 0.18, 0.19, 0.2; -0.5), (0.09, 0.1, 0.11, 0.12, 0.13; -0.6) >	<(0.16,0.18,0.2,0.22,0.24;0.6),(0.1,0.13,0.16,0.19,0.22;0.3),	(0.08,0.1,0.12,0.14,0.16;0.1),(0.12,0.13,0.14,0.15,0.16;-0.7),	(0.09, 0.1, 0.11, 0.12, 0.13; -0.3), (0.07, 0.08, 0.09, 0.1, 0.11; -0.5) >	<(0.12, 0.13, 0.14, 0.15, 0.16; 0.3), (0.1, 0.11, 0.12, 0.13, 0.14; 0.7),	(0.2, 0.21, 0.22, 0.23, 0.24; 0.6), (0.08, 0.09, 0.1, 0.11, 0.12; -0.4),	(0.1,0.13,0.16,0.19,0.22;-0.5),(0.07,0.1,0.13,0.16,0.19;-0.8)>	<(0.3, 0.32, 0.34, 0.36, 0.38; 0.3), (0.2, 0.25, 0.3, 0.35, 0.4; 0.7),	(0.21, 0.24, 0.27, 0.3, 0.33, 0.5), (0.2, 0.23, 0.26, 0.29, 0.32; -0.2),	(0.32, 0.35, 0.38, 0.41, 0.44; -0.3), (0.18, 0.19, 0.2, 0.21, 0.22; -0.7) >	<(0.03, 0.04, 0.05, 0.06, 0.07; 0.5), (0.1, 0.11, 0.12, 0.13, 0.14; 0.7),	(0.02,0.04,0.06,0.08,0.1;0.9),(0.02,0.05,0.08,0.11,0.14;-0.3),	(0.11, 0.12, 0.13, 0.14, 0.15; -0.8), (0.045, 0.05, 0.055, 0.06, 0.065; -0.5) >	<(0.024, 0.026, 0.028, 0.03, 0.03; 0.4), (0.02, 0.03, 0.04, 0.05, 0.06; 0.7),	(0.077, 0.079, 0.081, 0.083, 0.085; 0.5), (0.1, 0.11, 0.12, 0.13, 0.14; -0.2),	(0.09,0.091,0.092,0.093,0.094;-0.8),(0.06,0.07,0.08,0.09,0.1;-0.5)>	<(0.4,0.41,0.42,0.43,0.44;0.9),(0.25,0.3,0.35,0.4,0.45;0.6),	(0.26, 0.28, 0.3, 0.32, 0.34; 0.5), (0.44, 0.45, 0.46, 0.47, 0.48; -0.4),	(0.36,0.37,0.38,0.39,0.4;-0.8),(0.2,0.21,0.22,0.23,0.24;-0.5)>	<(0.2, 0.22, 0.24, 0.26, 0.28; 0.4), (0.24, 0.25, 0.26, 0.27, 0.28; 0.6),	(0.33,0.36,0.39,0.42,0.45;0.9), (0.23,0.24,0.25,0.26,0.27;-0.8),	(0.16,0.17,0.18,0.19,0.2;-0.4),(0.35,0.37,0.39,0.41,0.43;-0.2)>	<(0.05, 0.07, 0.09, 0.11, 0.13; 0.7), (0.06, 0.07, 0.08, 0.09, 0.1; 0.4),	(0.045,0.055,0.065,0.075,0.085;0.3),(0.05,0.06,0.07,0.08,0.09;-0.1),	(0.05, 0.07, 0.09, 0.11, 0.13, -0.6), (0.02, 0.03, 0.04, 0.05, 0.06, -0.5) >
k' = 1	$<(0.2, 0.21, 0.22, 0.23, 0.24, 0.2), (0.15, 0.17, 0.19, 0.21, 0.23, 0.4), \\ (0.12, 0.13, 0.14, 0.15, 0.16, 0.07), (0.11, 0.12, 0.13, 0.14, 0.15, -0.2), \\$	(0.12,0.14,0.16,0.18,0.2;-0.6),(0.06,0.08,0.1,0.12,0.14;-0.5)>	< (0.04, 0.05, 0.06, 0.07, 0.08; 0.8), (0.034, 0.036, 0.038, 0.04, 0.042; 0.5),	(0.1,0.11,0.12,0.13,0.14;0.3),(0.03,0.031,0.032,0.033,0.034;-0.6),	(0.06, 0.07, 0.08, 0.09, 0.1; -0.3), (0.03, 0.05, 0.07, 0.09, 0.11; -0.1) >	<(0.1,0.14,0.18,0.22,0.26;0.1),(0.2,0.21,0.22,0.23,0.24;0.4),	(0.13,0.14,0.15,0.16,0.17;0.3),(0.1,0.11,0.12,0.13,0.14;-0.5),	(0.06, 0.07, 0.08, 0.09, 0.1; -0.2), (0.09, 0.11, 0.13, 0.15, 0.17; -0.3) >	< (0.2, 0.22, 0.24, 0.26, 0.28; 0.8), (0.15, 0.16, 0.17, 0.18, 0.19; 0.5),	(0.12,0.13,0.14,0.15,0.16;0.3),(0.08,0.1,0.12,0.14,0.16;-0.7),	(0.23, 0.25, 0.27, 0.29, 0.31; -0.4), (0.21, 0.22, 0.23, 0.24, 0.25; -0.2) >	< (0.2, 0.22, 0.24, 0.26, 0.28; 0.7), (0.14, 0.15, 0.16, 0.17, 0.18; 0.5),	(0.23, 0.25, 0.27, 0.29, 0.31; 0.2), (0.15, 0.16, 0.17, 0.18, 0.19; -0.6),	(0.12,0.13,0.14,0.15,0.16;-0.2),(0.2,0.21,0.22,0.23,0.24;-0.5)>	<(0.4,0.42,0.44,0.46,0.48;0.3),(0.14,0.15,0.16,0.17,0.18;0.5),	(0.31, 0.32, 0.33, 0.34, 0.35; 0.7), (0.15, 0.16, 0.17, 0.18, 0.19; -0.7),	(0.28,0.29,0.3,0.31,0.32;-0.3),(0.31,0.32,0.33,0.34,0.35;-0.5)>	< (0.1, 0.12, 0.14, 0.16, 0.18; 0.3), (0.15, 0.17, 0.19, 0.21, 0.23; 0.5),	(0.09,0.11,0.13,0.15,0.17;0.7),(0.13,0.14,0.15,0.16,0.17;-0.3),	(0.13,0.15,0.17,0.19,0.21;-0.6),(0.1,0.11,0.12,0.13,0.14;-0.8)>	< (0.1, 0.12, 0.14, 0.16, 0.18; 0.3), (0.06, 0.07, 0.08, 0.09, 0.1; 0.6),	(0.075,0.08,0.085,0.09,0.095;0.5),(0.04,0.05,0.06,0.07,0.08;-0.3),	(0.02, 0.04, 0.06, 0.08, 0.1; -0.7), (0.03, 0.05, 0.07, 0.09, 0.11; -0.6) >	<(0.4,0.42,0.44,0.46,0.48;0.5),(0.24,0.26,0.28,0.3,0.32;0.3),	(0.31, 0.32, 0.33, 0.34, 0.35; 0.1), (0.25, 0.26, 0.27, 0.28, 0.29; -0.3),	(0.45,0.48,0.51,0.54,0.57;-0.5), (0.3,0.31,0.32,0.33,0.34;-0.7) >	< (0.2, 0.23, 0.26, 0.29, 0.32; 0.8), (0.12, 0.13, 0.14, 0.15, 0.16; 0.2),	(0.1,0.11,0.12,0.13,0.14;0.3),(0.25,0.27,0.29,0.31,0.33;-0.7),	(0.15, 0.17, 0.19, 0.21, 0.23; -0.4), (0.14, 0.16, 0.18, 0.2, 0.22; -0.2) >
	0.1	(0.1	< (0.	(0.1	0.0	V	٤	0.0	\ \	٥	(0.2	V	8	0)	V	٣	(0	V	8	0	V	0.0	9	v	9	0	V	٣	9

Table 20: BPNFS input for $\widetilde{TcrE_{ijk}}$ from the i^{th} collection center to the j^{th} extraction and recycling center via k^{th} conveyance.

Ľ	i $k = 1$	k = 2	k = 3	j
	< (0.31, 0.32, 0.33, 0.34, 0.35; 0.7), (0.24, 0.25, 0.26, 0.27, 0.28; 0.2),	<(0.13, 0.14, 0.15, 0.16, 0.17; 0.2), (0.15, 0.17, 0.19, 0.21, 0.23; 0.5),	< (0.15, 0.17, 0.19, 0.21, 0.23; 0.7), (0.2, 0.21, 0.22, 0.23, 0.24; 0.3),	
	(0.46, 0.47, 0.48, 0.49, 0.5; 0.4), (0.22, 0.23, 0.24, 0.25, 0.26; -0.6),	(0.12, 0.13, 0.14, 0.15, 0.16; 0.7), (0.16, 0.18, 0.2, 0.22, 0.24; -0.6),	(0.13,0.14,0.15,0.16,0.17;0.3), (0.22,0.23,0.24,0.25,0.26;-0.6),	-
	(0.44, 0.45, 0.46, 0.47, 0.48; -0.2), (0.2, 0.21, 0.22, 0.23, 0.24; -0.3) >	(0.1, 0.12, 0.14, 0.16, 0.18; -0.5), (0.11, 0.13, 0.15, 0.17, 0.19; -0.1) >	(0.24, 0.25, 0.26, 0.27, 0.28; -0.4), (0.1, 0.11, 0.12, 0.13, 0.14; -0.2) >	
	<(0.35,0.36,0.37,0.38,0.39;0.6),(0.25,0.26,0.27,0.28,0.29;0.3),	<(0.12, 0.14, 0.16, 0.18, 0.2; 0.5), (0.24, 0.25, 0.26, 0.27, 0.28; 0.7),	< (0.5, 0.6, 0.7, 0.8, 0.9; 0.5), (0.4, 0.6, 0.8, 1, 1.2; 0.7),	
	(0.21, 0.22, 0.23, 0.24, 0.25; 0.5), (0.25, 0.27, 0.29, 0.31, 0.33; -0.7),	(0.08, 0.09, 0.1, 0.11, 0.12; 0.6), (0.24, 0.25, 0.26, 0.27, 0.28; -0.2),	(0.13,0.15,0.17,0.19,0.21;0.5), (0.22,0.23,0.24,0.25,0.26;-0.7),	61
	$\left(0.31,0.32,0.33,0.34,0.35;-0.3),(0.24,0.25,0.26,0.27,0.28;-0.6)>\right.$	(0.05,0.06,0.07,0.08,0.09,-0.7),(0.15,0.16,0.17,0.18,0.19;-0.5)>	(0.21, 0.23, 0.25, 0.27, 0.29; -0.2), (0.15, 0.16, 0.17, 0.18, 0.19; -0.6) >	
	<(0.33,0.35,0.37,0.39,0.41;0.6),(0.42,0.44,0.46,0.48,0.5;0.7),	<(0.06, 0.07, 0.08, 0.09, 0.1; 0.5), (0.03, 0.05, 0.07, 0.09, 0.11; 0.7),	<(0.25, 0.26, 0.27, 0.28, 0.29; 0.7), (0.34, 0.35, 0.36, 0.37, 0.38; 0.4),	_
	$1 \hspace{1.5cm} \big \hspace{1.5cm} (0.26, 0.27, 0.28, 0.29, 0.3; 0.5), (0.35, 0.36, 0.37, 0.38, 0.39; -0.4), \\$	(0.013, 0.014, 0.015, 0.016, 0.017; 0.4), (0.01, 0.011, 0.012, 0.013, 0.014; -0.6),	(0.11, 0.12, 0.13, 0.14, 0.15; 0.5), (0.17, 0.18, 0.19, 0.2, 0.21; -0.4),	n
	(0.4, 0.41, 0.42, 0.43, 0.44; -0.5), (0.1, 0.15, 0.2, 0.25, 0.3; -0.3) >	(0.1,0.12,0.14,0.16,0.18;-0.4),(0.05,0.06,0.07,0.08,0.09;-0.7)>	(0.23, 0.25, 0.27, 0.29, 0.31; -0.6), (0.12, 0.13, 0.14, 0.15, 0.16; -0.2) >	
	<(0.3, 0.31, 0.32, 0.33, 0.34; 0.6), (0.24, 0.26, 0.28, 0.3, 0.32; 0.4),	<(0.05, 0.06, 0.07, 0.08, 0.09; 0.9), (0.04, 0.07, 0.1, 0.13, 0.16; 0.4),	<(0.15, 0.17, 0.19, 0.21, 0.23; 0.6), (0.04, 0.08, 0.12, 0.16, 0.2; 0.7),	
	(0.14, 0.17, 0.2, 0.23, 0.26; 0.6), (0.13, 0.16, 0.19, 0.22, 0.25; -0.7),	(0.1,0.11,0.12,0.13,0.14;0.5),(0.026,0.036,0.046,0.056,0.066;-0.6),	(0.09, 0.12, 0.15, 0.18, 0.21; 0.4), (0.1, 0.11, 0.12, 0.13, 0.14; -0.6),	4
	(0.21,0.22,0.23,0.24,0.25;-0.3),(0.31,0.33,0.35,0.37,0.39;-0.4)>	(0.04, 0.05, 0.06, 0.07, 0.08; -0.5), (0.05, 0.07, 0.09, 0.11, 0.13; -0.3) >	(0.08, 0.09, 0.1, 0.11, 0.12; -0.4), (0.07, 0.08, 0.09, 0.1, 0.11; -0.2) >	
	<(0.23, 0.24, 0.25, 0.26, 0.27; 0.4), (0.25, 0.27, 0.29, 0.31, 0.33; 0.5),	<(0.13, 0.15, 0.17, 0.19, 0.21; 0.7), (0.23, 0.26, 0.29, 0.32, 0.35; 0.5),	< (0.06, 0.07, 0.08, 0.09, 0.1; 0.7), (0.03, 0.06, 0.09, 0.12, 0.15; 0.4),	
	(0.31, 0.33, 0.35, 0.37, 0.39; 0.6), (0.34, 0.35, 0.36, 0.37, 0.38; -0.3),	(0.23, 0.24, 0.25, 0.26, 0.27; 0.4), (0.15, 0.16, 0.17, 0.18, 0.19; -0.6),	(0.07, 0.08, 0.09, 0.1, 0.11; 0.3), (0.04, 0.06, 0.08, 0.1, 0.12; -0.5),	ю
	(0.21,0.23,0.25,0.27,0.29;-0.3),(0.25,0.27,0.29,0.31,0.33;-0.5)>	(0.16, 0.18, 0.2, 0.22, 0.24; -0.2), (0.19, 0.2, 0.21, 0.22, 0.23; -0.4) >	(0.07, 0.08, 0.09, 0.1, 0.11; -0.9), (0.02, 0.04, 0.06, 0.08, 0.1; -0.6) >	
	<(0.14, 0.16, 0.18, 0.2, 0.22; 0.3), (0.24, 0.25, 0.26, 0.27, 0.28; 0.5),	<(0.09, 0.1, 0.11, 0.12, 0.13; 0.7), (0.05, 0.06, 0.07, 0.08, 0.09; 0.4),	< (0.54, 0.55, 0.56, 0.57, 0.58; 0.7), (0.35, 0.36, 0.37, 0.38, 0.39; 0.5),	
	(0.13, 0.15, 0.17, 0.19, 0.21; 0.6), (0.12, 0.14, 0.16, 0.18, 0.2; -0.4),	(0.03, 0.05, 0.07, 0.09, 0.11; 0.3), (0.04, 0.06, 0.08, 0.1, 0.12; -0.7),	(0.4, 0.41, 0.42, 0.43, 0.44; 0.3), (0.25, 0.26, 0.27, 0.28, 0.29; -0.7),	-
	(0.2, 0.22, 0.24, 0.26, 0.28; -0.3), (0.21, 0.23, 0.25, 0.27, 0.29; -0.6) >	(0.07, 0.08, 0.09, 0.1, 0.11; -0.4), (0.04, 0.05, 0.06, 0.07, 0.08; -0.1) >	(0.3,0.31,0.32,0.33,0.34;-0.4),(0.45,0.46,0.47,0.48,0.49;-0.2)>	
	<(0.21, 0.23, 0.25, 0.27, 0.29; 0.7), (0.31, 0.32, 0.33, 0.34, 0.35; 0.3),	<(0.41, 0.42, 0.43, 0.44, 0.45; 0.5), (0.2, 0.22, 0.24, 0.26, 0.28; 0.6),	< (0.3, 0.32, 0.34, 0.36, 0.38; 0.2), (0.25, 0.27, 0.29, 0.31, 0.33; 0.5),	
	(0.26, 0.27, 0.28, 0.29, 0.3; 0.4), (0.23, 0.24, 0.25, 0.26, 0.27; -0.6),	(0.4, 0.42, 0.44, 0.46, 0.48; 0.7), (0.34, 0.36, 0.38, 0.4, 0.42; -0.3),	(0.27, 0.28, 0.29, 0.3, 0.31; 0.4), (0.27, 0.28, 0.29, 0.3, 0.31; -0.3),	7
	(0.3, 0.31, 0.32, 0.33, 0.34; -0.5), (0.21, 0.22, 0.23, 0.24, 0.25; -0.3) >	(0.3, 0.4, 0.42, 0.44, 0.46, -0.6), (0.23, 0.25, 0.27, 0.29, 0.31; -0.3) >	(0.32, 0.33, 0.34, 0.35, 0.36, -0.5), (0.21, 0.22, 0.23, 0.24, 0.25, -0.6) >	
	<(0.45, 0.46, 0.47, 0.48, 0.49; 0.7), (0.37, 0.39, 0.41, 0.43, 0.45; 0.4),	<(0.1, 0.11, 0.12, 0.13, 0.14; 0.6), (0.13, 0.15, 0.17, 0.19, 0.21; 0.3),	<(0.21, 0.23, 0.25, 0.27, 0.29; 0.6), (0.16, 0.17, 0.18, 0.19, 0.2; 0.7),	
	$2 \hspace{1.5cm} (0.25, 0.26, 0.27, 0.28, 0.29, 0.6), (0.44, 0.46, 0.48, 0.5, 0.52, -0.7),$	(0.2, 0.21, 0.22, 0.23, 0.24; 0.6), (0.09, 0.1, 0.11, 0.12, 0.13; -0.7),	(0.25, 0.26, 0.27, 0.28, 0.29; 0.3), (0.12, 0.13, 0.14, 0.15, 0.16; -0.5),	3
	(0.41, 0.42, 0.43, 0.44, 0.45; -0.3), (0.5, 0.51, 0.52, 0.53, 0.54; -0.6) >	(0.1, 0.13, 0.16, 0.19, 0.22; -0.3), (0.06, 0.08, 0.1, 0.12, 0.14; -0.7) >	(0.2, 0.22, 0.24, 0.26, 0.28, -0.6), (0.12, 0.14, 0.16, 0.18, 0.2; -0.2) >	
	<(0.5, 0.51, 0.52, 0.53, 0.54; 0.7), (0.2, 0.25, 0.3, 0.35, 0.4; 0.4),	< (0.14, 0.16, 0.18, 0.2, 0.22; 0.5), (0.15, 0.16, 0.17, 0.18, 0.19; 0.1),	<(0.01,0.013,0.016,0.019,0.022;0.6),(0.04,0.06,0.08,0.1,0.12;0.7),	
	$\big((0.25, 0.27, 0.29, 0.31, 0.33; 0.5), (0.34, 0.35, 0.36, 0.37, 0.38; -0.6),\\$	(0.06, 0.07, 0.08, 0.09, 0.1; 0.3), (0.15, 0.16, 0.17, 0.18, 0.19; -0.6),	(0.06,0.07,0.08,0.09,0.1;0.5),(0.012,0.014,0.016,0.018,0.02;-0.8),	4
	(0.25, 0.26, 0.27, 0.28, 0.29; -0.3), (0.22, 0.26, 0.3, 0.34, 0.38; -0.5) >	(0.08,0.1,0.12,0.14,0.16;-0.7),(0.12,0.13,0.14,0.15,0.16;-0.3)>	(0.1,0.11,0.12,0.13,0.14;-0.5),(0.067,0.068,0.069,0.07,0.071;-0.3)>	^
	< (0.4, 0.42, 0.44, 0.46, 0.48; 0.6), (0.36, 0.37, 0.38, 0.39, 0.4; 0.4),	< (0.1, 0.12, 0.14, 0.16, 0.18; 0.5), (0.15, 0.17, 0.19, 0.21, 0.23; 0.6),	<(0.2, 0.21, 0.22, 0.23, 0.24; 0.7), (0.25, 0.26, 0.27, 0.28, 0.29; 0.3),	
	(0.2, 0.22, 0.24, 0.26, 0.28; 0.3), (0.14, 0.17, 0.2, 0.23, 0.26; -0.7),	(0.21, 0.22, 0.23, 0.24, 0.25; 0.7), (0.04, 0.08, 0.12, 0.16, 0.2; -0.4),	(0.21, 0.22, 0.23, 0.24, 0.25; 0.5), (0.16, 0.17, 0.18, 0.19, 0.2; -0.9),	r0
	$\left (0.23, 0.24, 0.25, 0.26, 0.27; -0.4), (0.5, 0.51, 0.52, 0.53, 0.54; -0.6) > \right.$	(0.03, 0.06, 0.09, 0.12, 0.15, -0.6), (0.15, 0.17, 0.19, 0.21, 0.23, -0.8) >	(0.12, 0.14, 0.16, 0.18, 0.2; -0.6), (0.23, 0.25, 0.27, 0.29, 0.31; -0.5) >	
_	<(0.09, 0.1, 0.11, 0.12, 0.13; 0.3), (0.05, 0.06, 0.07, 0.08, 0.09; 0.6),	<(0.1, 0.11, 0.12, 0.13, 0.14; 0.7), (0.09, 0.1, 0.11, 0.12, 0.13; 0.5),	<(0.4, 0.42, 0.44, 0.46, 0.48; 0.5), (0.3, 0.31, 0.32, 0.33, 0.34; 0.7),	_
	(0.03, 0.05, 0.07, 0.09, 0.11; 0.4), (0.06, 0.07, 0.08, 0.09, 0.1; -0.4),	(0.06, 0.08, 0.1, 0.12, 0.14; 0.2), (0.2, 0.22, 0.24, 0.26, 0.28; -0.6),	(0.24, 0.25, 0.26, 0.27, 0.28; 0.6), (0.2, 0.21, 0.22, 0.23, 0.24; -0.6),	1
	(0.02, 0.04, 0.06, 0.08, 0.1; -0.3), (0.01, 0.03, 0.05, 0.07, 0.09; -0.6) >	(0.08, 0.09, 0.1, 0.11, 0.12; -0.3), (0.1, 0.12, 0.14, 0.16, 0.18; -0.4) >	(0.45, 0.46, 0.47, 0.48, 0.49; -0.3), (0.34, 0.35, 0.36, 0.37, 0.38; -0.2) >	
	<(0.2, 0.23, 0.26, 0.29, 0.32; 0.7), (0.34, 0.35, 0.36, 0.37, 0.38; 0.3),	<(0.2, 0.22, 0.24, 0.26, 0.28; 0.3), (0.3, 0.32, 0.34, 0.36, 0.38; 0.6),	< (0.07, 0.09, 0.11, 0.13, 0.15, 0.6), (0.14, 0.15, 0.16, 0.17, 0.18, 0.4),	
	(0.4, 0.41, 0.42, 0.43, 0.44; 0.6), (0.25, 0.26, 0.27, 0.28, 0.29; -0.6),	(0.34, 0.35, 0.36, 0.37, 0.38; 0.5), (0.3, 0.31, 0.32, 0.33, 0.34; -0.1),	(0.1,0.11,0.12,0.13,0.14;0.3),(0.08,0.09,0.1,0.11,0.12;-0.8),	71
	(0.41, 0.43, 0.45, 0.47, 0.49; -0.3), (0.2, 0.21, 0.22, 0.23, 0.24; -0.7) >	(0.26, 0.27, 0.28, 0.29, 0.3; -0.5), (0.15, 0.16, 0.17, 0.18, 0.19; -0.9) >	(0.05, 0.07, 0.09, 0.11, 0.13; -0.4), (0.1, 0.12, 0.14, 0.16, 0.18; -0.2) >	
	< (0.21, 0.22, 0.23, 0.24, 0.25; 0.6), (0.12, 0.14, 0.16, 0.18, 0.2; 0.5),	<(0.07,0.08,0.09,0.1,0.11;0.7),(0.1,0.11,0.12,0.13,0.14;0.5),	< (0.35, 0.36, 0.37, 0.38, 0.39; 0.7), (0.45, 0.46, 0.47, 0.48, 0.49; 0.5),	
	$3 \hspace{1.5cm} \big \hspace{1.5cm} (0.22, 0.23, 0.24, 0.25, 0.26; 0.7), (0.25, 0.26, 0.27, 0.28, 0.29; -0.3), \\$	(0.04,0.05,0.06,0.07,0.08;0.4),(0.035,0.036,0.037,0.038,0.039;-0.7),	$(0.25, 0.26, 0.27, 0.28, 0.29; 0.6), \\ (0.31, 0.33, 0.35, 0.37, 0.39; -0.4),$	8
	(0.11,0.12,0.13,0.14,0.15;-0.5),(0.2,0.21,0.22,0.23,0.24;-0.6)>	(0.06, 0.07, 0.08, 0.09, 0.1; -0.4), (0.02, 0.04, 0.06, 0.08, 0.1; -0.6) >	(0.32, 0.33, 0.34, 0.35, 0.36; -0.6), (0.4, 0.41, 0.42, 0.43, 0.44; -0.2) >	
	<(0.02, 0.04, 0.06, 0.08, 0.1; 0.5), (0.1, 0.11, 0.12, 0.13, 0.14; 0.6),	<(0.2, 0.22, 0.24, 0.26, 0.28; 0.6), (0.15, 0.17, 0.19, 0.21, 0.23; 0.4),	< (0.2, 0.22, 0.24, 0.26, 0.28; 0.6), (0.1, 0.11, 0.12, 0.13, 0.14; 0.3),	
	(0.04,0.05,0.06,0.07,0.08;0.3),(0.01,0.02,0.03,0.04,0.05;-0.6),	(0.23, 0.24, 0.25, 0.26, 0.27; 0.3), (0.17, 0.19, 0.21, 0.23, 0.25; -0.6),	(0.13, 0.14, 0.15, 0.16, 0.17; 0.5), (0.14, 0.15, 0.16, 0.17, 0.18; -0.6),	4
	(0.013, 0.014, 0.015, 0.016, 0.017; -0.4), (0.07, 0.09, 0.11, 0.13, 0.15; -0.2) > 0.000, 0.	(0.26, 0.27, 0.28, 0.29, 0.3; -0.7), (0.13, 0.14, 0.15, 0.16, 0.17; -0.3) >	(0.11,0.13,0.15,0.17,0.19;-0.3),(0.06,0.08,0.1,0.12,0.14;-0.7)>	
	< (0.2, 0.22, 0.24, 0.26, 0.28; 0.7), (0.23, 0.25, 0.27, 0.29, 0.31; 0.4),	<(0.3, 0.31, 0.32, 0.33, 0.34; 0.9), (0.25, 0.26, 0.27, 0.28, 0.29; 0.6),	<(0.5, 0.51, 0.52, 0.53, 0.54; 0.2), (0.2, 0.25, 0.3, 0.35, 0.4; 0.4),	
	(0.2, 0.21, 0.22, 0.23, 0.24; 0.5), (0.15, 0.16, 0.17, 0.18, 0.19; -0.6),	(0.15, 0.17, 0.19, 0.21, 0.23; 0.4), (0.14, 0.15, 0.16, 0.17, 0.18; -0.8),	(0.25, 0.27, 0.29, 0.31, 0.33; 0.6), (0.34, 0.35, 0.36, 0.37, 0.38; -0.7),	rů
	(0.14,0.16,0.18,0.2,0.22;-0.3),(0.21,0.22,0.23,0.24,0.25;-0.5)>	(0.16, 0.17, 0.18, 0.19, 0.2; -0.5), (0.26, 0.28, 0.3, 0.32, 0.34; -0.3) >	(0.25, 0.26, 0.27, 0.28, 0.29; -0.3), (0.22, 0.26, 0.3, 0.34, 0.38; -0.4) >	_

Table 21: BPNFS input for $\widehat{TrmE_{jmk''}}$ from the j^{th} extraction and recycling center to the m^{th} manufacturing company via k''^{th} conveyance.

$ \begin{split} & < (0.13, 0.15, 0.17, 0.19, 0.21; 0.7), (0.16, 0.17, 0.18, 0.19, 0.2; 0.3), \\ & (0.04, 0.06, 0.05, 0.05, 0.07, 0.08; 0.2), (0.14, 0.15, 0.16, 0.17, 0.18, 0.21; 0.3), \\ & (0.04, 0.06, 0.05, 0.05, 0.07, 0.08; 0.2), (0.14, 0.15, 0.15, 0.15, 0.15, 0.15, 0.15, 0.15, 0.15), \\ & < (0.04, 0.06, 0.06, 0.05, 0.11, 0.02), (0.11, 0.12, 0.14, 0.15, 0.13, 0.21; 0.2), \\ & < (0.12, 0.13, 0.14, 0.15, 0.18; 0.2), (0.11, 0.12, 0.14, 0.15, 0.13, 0.13, 0.13, 0.15, 0.15), \\ & < (0.12, 0.13, 0.14, 0.15, 0.25, 0.25, 0.20, 0.11, 0.12, 0.14, 0.15, 0.13, 0.13, 0.13, 0.13, 0.13, 0.13, 0.13, 0.13, 0.13, 0.25, 0.21, 0.25; 0.21, 0.25; 0.21, 0.21, 0.25; 0.21, 0.22; 0.23, 0.24, 0.25, $	ш		-			2			ю			1			61			က			1			7			က			1			71			က			-			73			8	
	k'' = 3	<(0.1, 0.11, 0.12, 0.13, 0.14; 0.3), (0.12, 0.14, 0.16, 0.18, 0.2; 0.5),	(0.14,0.15,0.16,0.17,0.18;0.7),(0.14,0.15,0.16,0.17,0.18;-0.3),	(0.11,0.13,0.15,0.17,0.19;-0.6),(0.1,0.11,0.12,0.13,0.14;-0.5)>	< (0.3, 0.32, 0.34, 0.36, 0.38; 0.7), (0.19, 0.21, 0.23, 0.25, 0.27; 0.4),	(0.22,0.23,0.24,0.25,0.26;0.2),(0.24,0.25,0.26,0.27,0.28;-0.8),	(0.17,0.19,0.21,0.23,0.25;-0.5),(0.27,0.29,0.31,0.33,0.35;-0.3)>	< (0.11, 0.12, 0.13, 0.14, 0.15; 0.8), (0.09, 0.11, 0.13, 0.15, 0.17; 0.3),	(0.12, 0.14, 0.16, 0.18, 0.2; 0.6), (0.12, 0.13, 0.14, 0.15, 0.16; -0.3),	(0.15,0.16,0.17,0.18,0.19;-0.5),(0.07,0.09,0.11,0.13,0.15;-0.4)>	<(0.2,0.22,0.24,0.26,0.28;0.2),(0.25,0.26,0.27,0.28,0.29;0.4),	(0.3,0.31,0.32,0.33,0.34;0.6),(0.22,0.23,0.24,0.25,0.26;-0.4),		<(0.01, 0.02, 0.03, 0.04, 0.05; 0.6), (0.01, 0.03, 0.05, 0.07, 0.09; 0.4),	(0.05, 0.07, 0.09, 0.11, 0.13; 0.2), (0.06, 0.07, 0.08, 0.09, 0.1; -0.4),	(0.04,0.06,0.08,0.1,0.12;-0.5),(0.03,0.05,0.07,0.09,0.11;-0.7)>	<(0.06, 0.07, 0.08, 0.09, 0.1; 0.8), (0.03, 0.04, 0.05, 0.06, 0.07; 0.5),	(0.02, 0.04, 0.06, 0.08, 0.1; 0.4), (0.05, 0.07, 0.09, 0.11, 0.13; -0.6),	(0.02, 0.04, 0.06, 0.08, 0.1; -0.3), (0.02, 0.03, 0.04, 0.05, 0.06; -0.4) >	<(0.21,0.22,0.23,0.24,0.25;0.2),(0.17,0.19,0.21,0.23,0.25;0.5),	(0.16, 0.17, 0.18, 0.19, 0.2; 0.6), (0.19, 0.21, 0.23, 0.25, 0.27; -0.3),	(0.22,0.23,0.24,0.25,0.26;-0.6),(0.24,0.25,0.26,0.27,0.28;-0.7)>	< (0.12, 0.13, 0.14, 0.15, 0.16; 0.6), (0.08, 0.1, 0.12, 0.14, 0.16; 0.4),	(0.1, 0.11, 0.12, 0.13, 0.14; 0.5), (0.09, 0.11, 0.13, 0.15, 0.17; -0.8),	(0.1,0.11,0.12,0.13,0.14;-0.6),(0.13,0.15,0.17,0.19,0.21;-0.2)>	<(0.12,0.13,0.14,0.15,0.16;0.5),(0.08,0.1,0.12,0.14,0.16;0.6),	(0.1,0.11,0.12,0.13,0.14;0.8),(0.14,0.15,0.16,0.17,0.18;-0.2),	(0.13,0.15,0.17,0.19,0.21;-0.4),(0.1,0.13,0.16,0.19,0.22;-0.6)>	< (0.22, 0.23, 0.24, 0.25, 0.26; 0.6), (0.2, 0.21, 0.22, 0.23, 0.24; 0.3),	(0.14,0.16,0.18,0.2,0.25;0.2),(0.23,0.24,0.25,0.26,0.27;-0.3),	(0.15,0.16,0.17,0.18,0.19;-0.6),(0.19,0.21,0.23,0.25,0.27;-0.7)>	<(0.02, 0.03, 0.04, 0.05, 0.06; 0.4), (0.04, 0.05, 0.06, 0.07, 0.08; 0.3),	(0.02, 0.04, 0.06, 0.08, 0.1; 0.6), (0.05, 0.06, 0.07, 0.08, 0.09; -0.7),	(0.04, 0.06, 0.08, 0.1, 0.12; -0.5), (0.05, 0.07, 0.09, 0.11, 0.13; -0.8) >	<(0.01, 0.03, 0.05, 0.07, 0.09; 0.1), (0.05, 0.06, 0.07, 0.08, 0.09; 0.3),	(0.01, 0.02, 0.03, 0.04, 0.05; 0.6), (0.03, 0.05, 0.07, 0.09, 0.11; -0.8),	(0.06, 0.07, 0.08, 0.09, 0.1; -0.4), (0.02, 0.04, 0.06, 0.08, 0.1; -0.1) >	<(0.21,0.22,0.23,0.24,0.25;0.4),(0.14,0.16,0.18,0.2,0.22;0.5),	(0.23, 0.24, 0.25, 0.26, 0.27; 0.6), (0.16, 0.17, 0.18, 0.19, 0.2; -0.6),	(0.18, 0.2, 0.22, 0.24, 0.26; -0.4), (0.21, 0.22, 0.23, 0.24, 0.25; -0.5) >	< (0.03, 0.05, 0.07, 0.09, 0.11; 0.6), (0.01, 0.02, 0.03, 0.04, 0.05; 0.3),	(0.05, 0.06, 0.07, 0.08, 0.09;0.5), (0.05, 0.07, 0.09, 0.11, 0.13;-0.8),	(0.05, 0.06, 0.07, 0.08, 0.09; -0.3), (0.07, 0.08, 0.09, 0.1, 0.11; -0.7) >	<(0.1,0.11,0.12,0.13,0.14;0.6),(0.14,0.15,0.16,0.17,0.18;0.3),	(0.07, 0.09, 0.11, 0.13, 0.15; 0.6), (0.15, 0.16, 0.17, 0.18, 0.19; -0.8),	(0.11, 0.12, 0.13, 0.14, 0.15, -0.4), (0.09, 0.1, 0.11, 0.12, 0.13, -0.2) >
$ \begin{aligned} & \langle (0.15, 0.17, 0.19, 0.21, 0.28; 0.4), \langle (0.22, 0.23, 0.24, 0.25, 0.26; 0.7), \langle (0.24, 0.25, 0.28, 0.27, 0.28; 0.4), \langle (0.22, 0.23, 0.24, 0.25, 0.28; 0.7), \langle (0.21, 0.21, 0.13, 0.14, 0.15, 0.18; 0.17, 0.18, 0.19, 0.21, 0.13), \langle (0.12, 0.13, 0.14, 0.15, 0.16, 0.17, 0.12, 0.13, 0.14, 0.15, 0.16, 0.17, 0.12, 0.13, 0.14, 0.15, 0.16, 0.17, 0.12, 0.13, 0.14, 0.15, 0.16, 0.17, 0.12, 0.13, 0.14, 0.15, 0.16, 0.17, 0.12, 0.13, 0.14, 0.15, 0.16, 0.17, 0.18, 0.06), \langle (0.12, 0.14, 0.15, 0.16, 0.17, 0.15, 0.16, 0.17, 0.18, 0.06), \langle (0.12, 0.14, 0.15, 0.16, 0.17, 0.15, 0.16, 0.17, 0.18, 0.06), \langle (0.12, 0.14, 0.15, 0.15, 0.15, 0.16, 0.17, 0.18, 0.17, 0.18, 0.06), \langle (0.12, 0.14, 0.15, 0.15, 0.17, 0.14, 0.17, 0.18, 0.17, 0.18, 0.17, 0.18, 0.17, 0.18, 0.17, 0.18, 0.17, 0.18, 0.17, 0.18, 0.17, 0.18, 0.17, 0.18, 0.17, 0.18, 0.17, 0.18, 0.17, 0.18, 0.17, 0.18, 0.17, 0.18, 0.17, 0.18, 0.17, 0.18, 0.17, 0.18, 0.18, 0.17, 0.18, 0.17, 0.18, 0.18, 0.17, 0.18, 0.18, 0.17, 0.18, $	$k^{\prime\prime} = 2$	<(0.13,0.15,0.17,0.19,0.21;0.7),(0.16,0.17,0.18,0.19,0.2;0.3),	(0.04,0.05,0.06,0.07,0.08;0.2),(0.14,0.15,0.16,0.17,0.18;-0.5),	(0.02,0.04,0.06,0.08,0.1;-0.2),(0.1,0.12,0.14,0.16,0.18;-0.1)>	< (0.12, 0.13, 0.14, 0.15, 0.16, 0.1), (0.13, 0.15, 0.17, 0.19, 0.21, 0.3),	(0.12, 0.14, 0.16, 0.18, 0.2; 0.2), (0.11, 0.12, 0.13, 0.14, 0.15; -0.2),	(0.1,0.13,0.16,0.19,0.22;-0.6),(0.09,0.1,0.11,0.12,0.13;-0.5)>	<(0.23,0.24,0.25,0.26,0.27;0.7),(0.18,0.19,0.2,0.21,0.22;0.4),	(0.22,0.23,0.24,0.25,0.26;0.3),(0.14,0.15,0.16,0.17,0.18;-0.6),	(0.13,0.15,0.17,0.19,0.21;-0.2),(0.14,0.16,0.18,0.2,0.22;-0.3) >	<(0.21, 0.22, 0.23, 0.24, 0.25; 0.7), (0.14, 0.15, 0.16, 0.17, 0.18; 0.4),	(0.19, 0.2, 0.21, 0.22, 0.23; 0.6), (0.22, 0.23, 0.24, 0.25, 0.26; -0.8),	(0.2, 0.21, 0.22, 0.23, 0.24, -0.3), (0.15, 0.16, 0.17, 0.18, 0.19, -0.3) >	< (0.1, 0.11, 0.12, 0.13, 0.14; 0.4), (0.12, 0.13, 0.14, 0.15, 0.16; 0.6),	(0.09,0.1,0.11,0.12,0.13;0.8),(0.07,0.08,0.09,0.1,0.11;-0.7),	(0.13,0.15,0.17,0.19,0.21;-0.1),(0.12,0.13,0.14,0.15,0.16;-0.3)>	< (0.12, 0.13, 0.14, 0.15, 0.160.5), (0.11, 0.13, 0.15, 0.17, 0.19; 0.3),	(0.09,0.11,0.13,0.15,0.17;0.4),(0.13,0.14,0.15,0.16,0.17;-0.6),	(0.13,0.15,0.17,0.19,0.21;-0.4),(0.08,0.09,0.1,0.11,0.12;-0.5)>	<(0.06, 0.07, 0.08, 0.09, 0.1; 0.7), (0.01, 0.02, 0.03, 0.04, 0.05; 0.3),	(0.02, 0.04, 0.06, 0.08, 0.1; 0.4), (0.05, 0.06, 0.07, 0.08, 0.09; -0.6),	(0.05,0.07,0.09,0.11,0.13;-0.2),(0.03,0.05,0.07,0.09,0.11;-0.4)>	< (0.04,0.05,0.06,0.07,0.08;0.6),(0.03,0.05,0.07,0.09,0.11;0.4),	(0.05,0.07,0.09,0.11,0.13;0.2),(0.07,0.09,0.11,0.13,0.15,-0.3),	(0.01, 0.02, 0.03, 0.04, 0.05; -0.7), (0.02, 0.04, 0.06, 0.08, 0.1; -0.5) >	<(0.22,0.23,0.24,0.25,0.26;0.2),(0.21,0.23,0.25,0.27,0.29;0.5),	(0.14,0.15,0.16,0.17,0.18;0.7),(0.15,0.16,0.17,0.18,0.19;-0.3),	(0.18,0.21,0.24,0.27,0.3;-0.6),(0.24,0.26,0.28,0.3,0.32;-0.7)>	<(0.3,0.32,0.34,0.36,0.38;0.5),(0.25,0.26,0.27,0.28,0.29;0.2),	(0.3,0.31,0.32,0.33,0.34;0.3),(0.23,0.24,0.25,0.26,0.27;-0.8),	(0.2, 0.21, 0.22, 0.23, 0.24; -0.6), (0.21, 0.23, 0.25, 0.27, 0.29; -0.5) >	<(0.1,0.11,0.12,0.13,0.14;0.7),(0.12,0.13,0.14,0.15,0.16;0.4),	(0.08,0.09,0.1,0.11,0.12;0.3),(0.07,0.1,0.13,0.16,0.19;-0.6),	(0.14, 0.16, 0.18, 0.2, 0.22; -0.4), (0.11, 0.12, 0.13, 0.14, 0.15, -0.3) >	<(0.23,0.25,0.27,0.29,0.31;0.6),(0.21,0.22,0.23,0.24,0.25;0.4),	(0.32, 0.33, 0.34, 0.35, 0.36; 0.2), (0.26, 0.27, 0.28, 0.29, 0.3; -0.6),	(0.31, 0.33, 0.35, 0.37, 0.39, -0.4), (0.15, 0.16, 0.17, 0.18, 0.19, -0.3) >	< (0.15, 0.16, 0.17, 0.18, 0.19; 0.2), (0.13, 0.14, 0.15, 0.16, 0.17; 0.5),	(0.09,0.11,0.13,0.15,0.17;0.6),(0.12,0.13,0.14,0.15,0.16;-0.3),	(0.11,0.12,0.13,0.14,0.15;-0.4),(0.11,0.13,0.15,0.17,0.19;-0.6)>	<(0.08,0.1,0.12,0.14,0.16;0.5),(0.1,0.11,0.12,0.13,0.14;0.4),	(0.11, 0.12, 0.13, 0.14, 0.15; 0.2), (0.1, 0.12, 0.14, 0.16, 0.18; -0.6),	(0.13,0.14,0.15,0.16,0.17;-0.4),(0.1,0.13,0.16,0.19,0.22;-0.2)>	<(0.2, 0.22, 0.24, 0.26, 0.28; 0.1), (0.14, 0.16, 0.18, 0.2, 0.22; 0.4),	(0.13,0.14,0.15,0.16,0.17;0.7),(0.21,0.22,0.23,0.24,0.25;-0.8),	(0.12, 0.14, 0.16, 0.18, 0.2; -0.3), (0.25, 0.26, 0.27, 0.28, 0.29; -0.5) >
	$k^{\prime\prime} = 1$	<((0.15, 0.17, 0.19, 0.21, 0.23; 0.4), (0.22, 0.23, 0.24, 0.25, 0.26; 0.7),	(0.24, 0.25, 0.26, 0.27, 0.28; 0.8), (0.16, 0.17, 0.18, 0.19, 0.2; -0.3),	(0.22, 0.23, 0.24, 0.25, 0.26; -0.5), (0.2, 0.22, 0.24, 0.26, 0.28; -0.7) >	<(0.1,0.11,0.12,0.13,0.14;0.2),(0.12,0.13,0.14,0.15,0.16;0.4),	(0.13,0.14,0.15,0.16,0.17;0.7),(0.12,0.14,0.16,0.18,0.2;-0.9),	(0.1,0.11,0.12,0.13,0.14;-0.2),(0.14,0.15,0.16,0.17,0.18;-0.6)>	<(0.12,0.13,0.14,0.15,0.16;0.5),(0.08,0.11,0.14,0.17,0.2;0.4),	(0.12,0.14,0.16,0.18,0.2;0.2),(0.14,0.15,0.16,0.17,0.18;-0.6),	(0.11,0.13,0.15,0.17,0.19;-0.1), (0.08,0.09,0.1,0.11,0.12;-0.2) >	<(0.09, 0.11, 0.13, 0.15, 0.17; 0.8), (0.1, 0.12, 0.14, 0.16, 0.18; 0.2),	(0.12,0.14,0.16,0.18,0.2;0.4),(0.1,0.11,0.12,0.13,0.14;-0.6),	(0.13, 0.14, 0.15, 0.16, 0.17; -0.3), (0.07, 0.08, 0.09, 0.1, 0.11; -0.5) >	<(0.11, 0.13, 0.15, 0.17, 0.19; 0.2), (0.12, 0.14, 0.16, 0.18, 0.2; 0.4),	(0.07,0.09,0.11,0.13,0.15;0.6),(0.09,0.12,0.15,0.18,0.21;-0.3),	(0.11,0.12,0.13,0.14,0.15;-0.6),(0.14,0.16,0.18,0.2,0.22;-0.8)>	< (0.12, 0.13, 0.14, 0.15, 0.16; 0.3), (0.11, 0.13, 0.15, 0.17, 0.19; 0.7),	(0.15,0.16,0.17,0.18,0.19;0.6),(0.14,0.15,0.16,0.17,0.18;-0.1),	(0.13, 0.15, 0.17, 0.19, 0.21; -0.6), (0.07, 0.09, 0.11, 0.13, 0.15; -0.3) >	<(0.2, 0.22, 0.24, 0.26, 0.28; 0.6), (0.15, 0.16, 0.17, 0.18, 0.19; 0.4),	(0.12,0.14,0.16,0.18,0.2;0.2),(0.13,0.15,0.17,0.19,0.21;-0.6),	(0.23, 0.25, 0.27, 0.29, 0.31; -0.4), (0.2, 0.21, 0.22, 0.23, 0.24; -0.3) >	<(0.12,0.13,0.14,0.15,0.16;0.5),(0.1,0.11,0.12,0.13,0.14;0.6),	(0.09,0.1,0.11,0.12,0.13;0.7),(0.07,0.09,0.11,0.13,0.15;-0.4),	(0.15,0.16,0.17,0.18,0.19;-0.4),(0.14,0.16,0.18,0.2,0.22;-0.1)>	< (0.24, 0.25, 0.26, 0.27, 0.28; 0.7), (0.21, 0.23, 0.25, 0.27, 0.29; 0.3),	(0.31, 0.32, 0.33, 0.34, 0.35; 0.2), (0.14, 0.16, 0.18, 0.2, 0.22; -0.5),	(0.23, 0.25, 0.27, 0.29, 0.31; -0.3), (0.24, 0.25, 0.26, 0.27, 0.28; -0.2) >	<(0.04, 0.05, 0.06, 0.07, 0.08; 0.9), (0.01, 0.03, 0.05, 0.07, 0.09; 0.6),	(0.05, 0.07, 0.09, 0.11, 0.13; 0.3), (0.04, 0.06, 0.08, 0.1, 0.12; -0.5),	(0.01, 0.02, 0.03, 0.04, 0.05; -0.4), (0.03, 0.05, 0.07, 0.09, 0.11; -0.1) >	< (0.21, 0.22, 0.23, 0.24, 0.25; 0.6), (0.24, 0.25, 0.26, 0.27, 0.28; 0.4),	(0.11,0.12,0.13,0.14,0.15;0.5),(0.13,0.15,0.17,0.19,0.21;-0.6),	(0.21, 0.22, 0.23, 0.24, 0.25; -0.4), (0.16, 0.18, 0.2, 0.22, 0.24; -0.2) >	<(0.1, 0.11, 0.12, 0.13, 0.14; 0.3), (0.12, 0.13, 0.14, 0.15, 0.16; 0.5),	(0.09, 0.11, 0.13, 0.15, 0.17; 0.7), (0.13, 0.14, 0.15, 0.16, 0.17; -0.4),	(0.12, 0.14, 0.16, 0.18, 0.2; -0.7), (0.1, 0.13, 0.16, 0.19, 0.22; -0.3) >	<(0.1,0.11,0.12,0.13,0.14;0.2),(0.15,0.16,0.17,0.18,0.19;0.5),	(0.12,0.14,0.16,0.18,0.2;0.7),(0.11,0.13,0.15,0.17,0.19;-0.2),	(0.14,0.15,0.16,0.17,0.18;-0.4),(0.09,0.11,0.13,0.15,0.17;-0.6)>	<(0.03, 0.05, 0.07, 0.09, 0.11; 0.4), (0.02, 0.03, 0.04, 0.05, 0.06; 0.6),	(0.04,0.06,0.08,0.1,0.12;0.2),(0.02,0.04,0.06,0.08,0.1;-0.6),	(0.06, 0.07, 0.08, 0.09, 0.1; -0.3), (0.04, 0.06, 0.08, 0.1, 0.12; -0.7) >	< (0.24, 0.25, 0.26, 0.27, 0.28, 0.6), (0.32, 0.33, 0.34, 0.35, 0.36, 0.4),	(0.17,0.18,0.19,0.2,0.21;0.3),(0.21,0.22,0.23,0.24,0.25;-0.7),	(0.31, 0.32, 0.33, 0.34, 0.35, -0.2), (0.24, 0.25, 0.26, 0.27, 0.28, -0.3) > 1