

Lampiran 11: Hasil Perhitungan *Failure Mode Analysis Severity Risk Event*

	E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	E11	E12	E13	E14	E15
R1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
R2	2	2	4	3	3	2	2	3	2	3	2	2	2	2	3
R3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
R4	4	3	3	4	4	2	3	4	3	3	2	3	3	3	3
R5	3	2	3	3	4	3	2	4	2	3	3	3	3	4	4
R6	3	3	2	4	3	2	2	3	2	3	3	3	3	2	3
R7	3	3	1	2	3	2	2	2	1	3	3	3	3	4	3
R8	3	1	1	1	1	2	2	2	2	2	2	3	3	3	2
R9	3	1	1	3	1	3	2	4	3	3	4	4	4	4	4
R10	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2
R11	4	3	3	4	4	1	2	3	3	4	4	4	3	3	1
R12	5	3	4	4	3	3	2	3	2	4	4	5	4	5	4
R13	5	4	5	5	4	4	4	4	4	3	3	3	3	4	3
R14	5	3	2	4	4	4	4	4	4	4	4	4	4	4	4
R15	4	4	4	3	4	3	4	4	3	3	3	4	3	3	3
R16	3	4	5	4	4	4	4	5	4	4	5	3	3	4	4
R17	4	3	3	4	4	2	3	4	3	3	2	3	3	3	3
R18	4	4	4	5	5	5	5	2	4	4	3	2	3	4	4
R19	3	3	3	2	3	2	2	2	1	3	3	3	3	4	3
R20	3	3	1	2	3	2	2	2	1	3	3	3	3	4	3
R21	5	3	4	4	3	3	2	3	2	4	4	5	4	5	4
R22	3	3	2	4	3	2	2	3	2	3	3	3	3	2	3
R23	3	2	3	3	4	3	2	4	2	3	3	3	3	4	4
R24	3	2	3	3	4	3	2	4	2	3	3	3	3	4	4
R25	4	3	3	4	4	3	3	3	4	4	4	5	3	3	3
R26	4	2	4	3	4	3	4	4	4	5	3	3	3	2	5
R27	3	5	5	4	5	3	4	3	4	3	2	4	3	2	4
R28	3	1	4	3	1	3	2	4	3	3	1	4	4	4	4
R29	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3
R30	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2
R31	4	3	4	4	4	1	2	3	3	4	3	4	3	3	1
R32	5	3	4	4	3	3	2	3	2	4	2	5	4	5	4
R33	5	4	3	5	4	4	4	4	4	3	3	3	3	4	3
R34	5	3	4	4	4	4	4	4	4	4	2	4	4	4	4
R35	4	4	3	3	4	3	4	4	3	3	4	4	3	3	3
R36	3	4	5	4	4	4	4	5	4	4	3	3	3	4	4
R37	3	3	3	3	2	2	2	3	2	1	3	2	2	1	1
R38	3	4	5	4	4	4	4	5	4	4	5	3	3	4	4
R39	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3
mean	3.54	2.85	3.15	3.36	3.31	2.79	2.79	3.31	2.77	3.21	2.97	3.28	3.05	3.31	3.18

Lampiran 12: Hasil Perhitungan *Failure Mode Analysis Occurance Risk Event*

	E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	E11	E12	E13	E14	E15
R1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
R2	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2
R3	2	1	1	1	3	2	2	2	3	2	2	2	2	2	2
R4	4	3	3	4	4	2	3	4	3	3	2	3	3	3	2
R5	4	2	2	2	3	2	2	2	2	1	1	1	1	1	1
R6	3	1	2	3	3	2	2	3	2	2	2	2	2	2	2
R7	4	3	2	2	3	2	2	2	2	2	2	2	2	3	3
R8	2	1	1	1	2	2	2	2	2	2	2	2	2	2	2
R9	2	1	2	3	1	2	3	3	3	3	4	4	2	2	2
R10	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
R11	4	3	3	4	4	1	2	3	3	4	4	4	3	3	1
R12	4	2	4	4	3	2	2	3	3	3	4	5	3	5	4
R13	5	5	2	5	4	4	4	1	1	3	3	3	3	1	1
R14	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3
R15	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3
R16	4	3	5	4	4	4	2	2	4	2	3	4	4	4	4
R17	4	3	3	4	4	2	3	4	3	3	2	3	3	3	2
R18	4	5	3	5	5	4	4	5	5	5	4	5	2	5	5
R19	4	3	2	2	3	2	2	2	2	2	2	2	2	3	3
R20	4	3	2	2	3	2	2	2	2	2	2	2	2	3	3
R21	4	2	4	4	3	2	2	3	3	3	4	5	3	5	4
R22	3	1	2	3	3	2	2	3	2	2	2	2	2	2	2
R23	4	2	2	2	3	2	2	2	2	1	1	2	1	1	1
R24	4	2	2	2	3	2	2	2	2	1	1	1	1	1	1
R25	3	5	3	5	4	4	3	5	4	4	3	4	4	5	3
R26	3	5	4	4	5	5	5	4	3	3	4	3	4	3	3
R27	3	4	4	4	4	4	3	4	3	2	4	2	4	3	4
R28	2	1	4	3	1	2	3	3	3	3	2	4	2	2	2
R29	3	3	2	4	3	3	3	3	3	3	3	2	2	3	3
R30	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2
R31	4	3	4	4	4	1	2	3	3	4	3	4	3	3	3
R32	4	2	4	4	3	2	2	3	3	3	4	5	3	5	4
R33	5	5	3	5	4	4	4	1	1	3	2	3	3	1	1
R34	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3
R35	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3
R36	4	3	3	4	4	4	2	2	4	2	5	4	4	4	4
R37	2	3	2	2	2	2	2	2	2	2	3	2	2	1	1
R38	4	3	3	4	4	4	2	2	4	2	5	4	4	4	4
R39	3	3	2	4	3	3	3	3	3	3	3	2	2	3	3
mean	3.44	2.74	2.77	3.21	3.15	2.62	2.56	2.72	2.72	2.59	2.79	2.92	2.59	2.79	2.59

Lampiran 13: Hasil Perhitungan *Failure Mode Analysis Detection Risk Event*

	E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	E11	E12	E13	E14	E15
R1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
R2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
R3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R4	3	2	3	3	3	1	3	3	3	3	2	3	3	3	2
R5	2	2	2	1	1	2	3	3	1	1	1	1	1	1	1
R6	2	2	2	2	2	2	2	2	2	3	3	3	3	2	2
R7	2	2	1	3	3	2	2	2	2	2	2	2	3	2	2
R8	1	1	1	2	1	1	1	1	1	1	1	1	1	2	1
R9	2	2	4	3	2	4	2	3	2	2	2	2	2	3	2
R10	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
R11	4	3	3	4	4	1	2	3	3	4	4	4	3	3	1
R12	1	1	3	3	2	2	1	2	3	4	4	5	1	2	1
R13	1	1	3	4	3	2	3	2	1	3	2	3	3	1	1
R14	2	2	2	4	4	4	4	3	2	2	2	3	3	4	4
R15	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
R16	4	3	4	5	4	4	2	4	4	3	4	5	4	3	5
R17	3	2	3	3	3	1	3	3	3	3	2	3	3	3	2
R18	5	5	4	4	3	5	5	4	3	5	4	3	5	3	5
R19	2	2	1	3	3	2	2	2	2	2	2	2	3	2	2
R20	2	2	3	3	3	2	2	2	2	2	2	2	3	2	2
R21	1	1	3	3	2	2	1	2	3	4	4	5	1	2	1
R22	2	2	2	2	2	2	2	2	2	3	3	3	3	2	2
R23	2	2	2	1	1	2	3	3	1	1	2	1	1	1	1
R24	2	2	2	1	1	2	3	3	1	1	1	1	1	1	1
R25	3	2	4	4	5	3	4	5	4	3	4	4	5	3	5
R26	2	4	4	5	4	4	3	3	5	3	3	4	3	2	2
R27	2	3	5	4	5	3	2	5	4	3	4	4	2	4	4
R28	2	2	2	3	2	4	2	3	2	2	3	2	2	3	2
R29	3	3	3	3	3	3	3	3	2	3	2	3	3	3	2
R30	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
R31	4	3	4	4	4	1	2	3	3	4	3	4	3	3	2
R32	1	1	4	3	2	2	1	2	3	4	3	5	1	2	1
R33	1	1	2	4	3	2	3	2	1	3	3	3	3	1	1
R34	2	2	2	4	4	4	4	3	2	2	2	3	3	4	4
R35	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
R36	4	3	4	5	4	4	2	4	4	3	4	5	4	3	5
R37	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
R38	4	3	4	5	4	4	2	4	4	3	4	5	4	3	5
R39	3	3	3	3	3	3	3	3	2	3	3	3	3	3	2
mean	2.33	2.21	2.72	3.03	2.74	2.49	2.41	2.72	2.41	2.62	2.62	2.92	2.56	2.38	2.31

Lampiran 14: Hasil Perhitungan *Occurance Risk Agent*

	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14
R1	3	3	3	3	3	3	3	3	3	3	3	3	3	3
R2	3	2	2	3	3	3	3	2	2	2	2	2	2	2
R3	2	2	2	3	2	3	3	3	2	2	3	2	3	3
R4	3	2	3	3	3	3	2	3	3	3	2	3	4	4
R5	3	1	2	2	3	1	1	1	1	1	1	1	4	1
R6	2	2	2	3	2	2	3	2	3	2	2	2	4	3
R7	2	3	2	4	4	3	3	2	2	2	3	3	4	4
R8	3	2	3	3	1	2	2	3	2	3	3	1	4	1
R9	3	4	4	4	2	4	4	3	3	3	3	3	4	4
R10	2	2	2	2	2	2	2	2	2	2	2	2	2	2
R11	2	2	3	4	3	3	2	2	2	1	1	1	4	3
R12	4	3	4	5	4	4	5	4	3	5	3	3	5	5
R13	2	1	3	3	1	1	3	1	1	2	1	1	4	3
R14	2	2	2	2	2	2	2	2	2	2	2	2	3	4
R15	4	2	3	3	2	3	2	1	2	2	1	2	4	4
R16	2	3	2	4	4	3	3	2	2	2	5	3	4	4
R17	4	3	2	3	3	2	3	2	3	3	2	2	4	3
R18	2	2	3	3	2	1	3	2	3	3	4	4	2	2
R19	3	2	2	2	3	1	4	4	3	2	3	1	5	1
R20	1	2	2	4	2	2	3	2	4	2	1	2	4	3
R21	3	2	2	3	3	3	4	2	2	2	1	2	3	4
R22	2	1	3	2	2	1	3	1	1	2	3	1	3	3
R23	5	3	4	3	3	3	2	3	3	3	2	3	5	4
R24	3	2	1	2	3	1	1	3	2	1	2	1	4	3
R25	2	3	2	3	2	2	3	2	3	2	1	2	3	3
R26	3	2	3	3	3	2	3	2	3	2	2	3	4	5
R27	3	2	3	3	3	2	3	4	4	4	1	2	1	3
R28	2	3	3	2	2	3	2	3	2	5	4	3	5	3
R29	2	1	3	3	3	4	2	2	3	3	2	3	1	4
R30	1	2	2	2	2	1	3	3	3	3	3	3	1	1
R31	2	3	3	3	2	2	3	3	3	2	2	2	4	4
R32	1	3	3	5	3	4	3	3	1	3	1	1	4	3
R33	2	3	4	3	2	3	2	3	2	3	2	1	4	4
R34	4	2	2	4	3	3	3	2	2	3	4	3	5	5
R35	2	1	3	2	2	3	3	3	2	2	1	2	3	2
R36	3	3	2	3	2	3	3	3	3	2	1	2	3	3
R37	3	2	3	3	3	3	2	3	3	3	1	3	4	4
R38	2	2	2	3	1	2	2	3	2	3	4	1	4	1
R39	2	1	3	5	2	1	3	2	3	3	3	4	5	2
mean	2.54	2.21	2.62	3.08	2.49	2.41	2.72	2.46	2.44	2.51	2.23	2.18	3.56	3.08

Lampiran 15: Hasil Rekap Penilaian Korelasi Risk Event - Risk Agent (A1)

A1	K(1,1)	K(1,3)	K(1,4)	K(1,5)	K(1,8)	K(1,12)
R1	1	1	3	3	9	3
R2	1	0	3	1	9	1
R3	1	1	3	3	9	1
R4	0	1	1	3	9	3
R5	1	1	3	3	9	1
R6	1	0	1	1	9	3
R7	9	3	1	9	9	9
R8	3	1	1	1	1	1
R9	0	1	1	3	9	3
R10	1	1	1	3	9	1
R11	3	3	3	3	3	3
R12	3	0	0	0	9	3
R13	0	0	0	0	9	3
R14	3	3	9	9	9	3
R15	3	0	0	0	9	3
R16	3	9	3	1	1	1
R17	3	1	1	1	3	9
R18	9	1	3	9	9	9
R19	0	0	1	3	9	3
R20	0	1	3	3	9	3
R21	1	0	3	3	9	1
R22	1	1	3	3	3	3
R23	1	0	1	1	9	3
R24	1	1	3	3	3	3
R25	1	1	3	1	9	3
R26	1	1	1	3	9	3
R27	0	0	3	1	9	3
R28	0	0	3	3	9	3
R29	1	1	3	3	3	1
R30	1	0	3	1	9	3
R31	1	0	1	1	3	3
R32	1	0	1	1	9	1
R33	0	1	3	3	9	3
R34	0	0	1	1	9	3
R35	0	1	1	3	9	3
R36	1	1	1	3	9	3
R37	1	0	1	3	3	3
R38	1	0	3	1	9	3
R39	1	0	3	3	9	1
<i>mean</i>	1.51	0.92	2.10	2.56	7.67	2.95

Lampiran 16: Hasil Rekap Penilaian Korelasi Risk Event - Risk Agent (A2)

A2	K(2,1)	K(2,3)	K(2,4)	K(2,5)	K(2,8)	K(2,12)
R1	1	0	3	3	3	3
R2	0	0	3	1	3	3
R3	1	1	3	3	3	1
R4	1	0	3	1	3	1
R5	1	0	1	3	3	3
R6	0	0	1	3	1	3
R7	9	3	9	9	9	9
R8	0	1	1	0	0	0
R9	1	1	3	3	3	3
R10	1	3	9	9	1	3
R11	3	3	3	3	3	3
R12	0	0	1	0	3	3
R13	0	0	1	0	3	9
R14	1	1	3	3	3	1
R15	0	0	1	0	3	9
R16	3	3	3	1	1	3
R17	0	0	1	0	9	9
R18	1	1	1	1	3	3
R19	1	0	1	3	3	3
R20	1	1	3	1	3	3
R21	1	0	3	3	1	1
R22	1	0	1	1	3	3
R23	1	1	1	3	3	3
R24	1	0	3	3	1	3
R25	1	1	3	3	3	3
R26	1	1	3	3	1	1
R27	1	1	1	1	3	3
R28	1	1	1	3	3	1
R29	1	1	1	1	3	1
R30	1	1	3	1	3	1
R31	0	1	3	3	1	3
R32	0	1	1	3	3	3
R33	0	1	1	1	3	3
R34	1	1	1	3	3	9
R35	0	0	3	1	3	3
R36	1	0	3	3	1	3
R37	1	1	1	1	3	1
R38	0	1	1	3	3	1
R39	1	1	3	3	3	1
<i>mean</i>	1.00	0.82	2.33	2.31	2.82	3.13

Lampiran 17: Hasil Rekap Penilaian Korelasi Risk Event - Risk Agent (A3)

A3	K(3,1)	K(3,3)	K(3,4)	K(3,5)	K(3,8)	K(3,12)
R1	0	0	1	0	3	1
R2	0	0	1	1	3	1
R3	1	0	1	1	1	0
R4	0	0	1	1	1	1
R5	0	0	0	1	3	1
R6	0	0	0	0	3	0
R7	9	3	3	3	3	3
R8	3	3	0	0	0	0
R9	0	0	1	1	3	0
R10	3	3	1	1	3	1
R11	3	3	3	3	3	3
R12	3	0	0	3	9	9
R13	0	0	0	3	9	3
R14	1	1	3	1	1	1
R15	3	0	0	3	9	3
R16	9	3	1	3	3	3
R17	1	0	9	3	9	9
R18	9	9	3	9	3	3
R19	0	1	1	0	3	1
R20	0	0	1	0	1	1
R21	0	0	1	3	3	1
R22	0	0	1	0	3	1
R23	0	0	0	1	1	1
R24	0	0	0	0	3	1
R25	0	0	1	1	3	0
R26	0	0	1	3	3	1
R27	0	0	1	1	3	1
R28	0	0	1	1	1	0
R29	0	0	1	1	1	1
R30	0	0	0	1	3	1
R31	0	0	1	0	3	1
R32	0	0	1	1	1	1
R33	0	0	1	0	3	1
R34	0	0	1	1	3	0
R35	0	0	0	1	3	1
R36	0	0	1	0	3	0
R37	0	0	1	1	1	0
R38	0	0	1	1	3	0
R39	0	0	0	1	3	0
<i>mean</i>	1.13	0.64	1.13	1.31	3.08	1.44

Lampiran 18: Hasil Rekap Penilaian Korelasi Risk Event - Risk Agent (A4)

A4	K(4,1)	K(4,3)	K(4,4)	K(4,5)	K(4,8)	K(4,12)
R1	0	0	1	1	3	9
R2	0	1	1	0	3	9
R3	0	0	1	1	3	9
R4	0	0	1	1	3	9
R5	0	0	0	1	1	9
R6	0	0	1	1	3	3
R7	9	1	3	3	3	3
R8	0	0	0	0	0	0
R9	0	0	1	0	3	9
R10	1	9	9	1	3	3
R11	9	3	9	9	3	3
R12	3	0	0	1	3	9
R13	0	0	0	1	3	9
R14	3	1	3	3	3	3
R15	3	0	0	1	3	9
R16	9	9	3	3	3	3
R17	9	0	9	1	9	9
R18	3	1	3	1	3	3
R19	0	0	1	3	3	9
R20	0	0	1	1	3	9
R21	0	0	1	0	3	3
R22	0	1	0	0	3	9
R23	0	0	3	0	3	9
R24	0	0	0	1	3	9
R25	0	0	1	1	3	3
R26	0	0	1	1	3	9
R27	0	0	1	0	1	3
R28	0	0	0	0	3	9
R29	0	0	1	0	3	9
R30	0	0	0	0	3	9
R31	0	0	1	1	3	9
R32	0	0	1	0	1	9
R33	0	0	1	0	3	3
R34	0	0	1	1	3	3
R35	0	0	1	1	3	9
R36	0	0	1	0	3	9
R37	0	0	1	1	1	9
R38	0	0	3	0	3	3
R39	0	0	1	1	3	3
<i>mean</i>	1.26	0.77	1.59	1.08	2.87	6.62

Lampiran 19: Hasil Rekap Penilaian Korelasi Risk Event - Risk Agent (A5)

A5	K(5,1)	K(5,3)	K(5,4)	K(5,5)	K(5,8)	K(5,12)
R1	3	0	9	1	9	0
R2	3	1	9	3	9	1
R3	3	0	9	3	9	0
R4	3	1	9	3	9	0
R5	3	0	3	1	3	1
R6	3	1	9	3	9	1
R7	9	1	9	9	9	9
R8	0	0	0	0	0	0
R9	3	1	9	3	9	0
R10	9	1	1	9	0	0
R11	3	3	3	3	3	3
R12	3	1	0	3	3	0
R13	1	3	0	3	3	0
R14	3	1	3	3	3	1
R15	3	1	0	3	3	0
R16	3	1	3	1	9	9
R17	9	3	9	9	9	3
R18	9	3	9	3	3	1
R19	3	1	3	3	9	0
R20	3	1	9	3	9	0
R21	3	1	9	1	9	1
R22	1	1	3	1	3	1
R23	1	1	3	3	9	1
R24	3	0	9	3	3	1
R25	1	1	9	3	9	1
R26	3	0	9	1	3	1
R27	3	0	9	3	3	1
R28	3	1	3	3	9	1
R29	3	0	9	1	9	1
R30	3	0	1	0	9	1
R31	3	0	3	3	9	1
R32	1	0	9	1	9	1
R33	3	0	9	3	9	0
R34	3	1	1	3	3	1
R35	3	1	9	3	9	1
R36	3	1	3	3	9	1
R37	3	0	9	1	3	1
R38	1	1	9	3	3	0
R39	3	0	3	1	9	1
mean	3.28	0.79	6.49	2.92	6.38	1.21

Lampiran 20: Hasil Rekap Penilaian Korelasi Risk Event - Risk Agent (A6)

A6	K(6,1)	K(6,3)	K(6,4)	K(6,5)	K(6,8)	K(6,12)
R1	0	0	1	1	9	3
R2	0	0	1	3	9	3
R3	0	0	1	0	9	3
R4	0	0	0	0	9	3
R5	0	0	0	1	9	1
R6	0	0	0	1	9	3
R7	3	1	9	9	9	9
R8	1	1	1	1	1	1
R9	0	0	1	0	9	1
R10	1	3	3	1	9	3
R11	9	9	9	9	9	9
R12	9	0	1	1	3	3
R13	3	0	1	1	3	3
R14	1	1	3	1	3	1
R15	9	0	1	1	3	3
R16	3	3	3	9	3	3
R17	1	0	3	3	3	3
R18	9	1	3	1	9	3
R19	0	0	1	0	3	3
R20	0	0	1	1	9	1
R21	0	0	1	0	9	3
R22	0	0	1	1	9	1
R23	1	0	1	1	3	3
R24	0	0	0	1	9	1
R25	0	0	0	1	9	3
R26	3	0	1	1	9	1
R27	3	0	1	1	3	3
R28	0	1	0	0	3	1
R29	0	0	1	0	9	3
R30	0	0	3	1	9	3
R31	0	0	1	1	9	1
R32	0	0	1	0	3	1
R33	0	0	1	1	9	1
R34	0	9	1	1	3	1
R35	0	0	1	1	9	3
R36	0	0	1	0	9	3
R37	0	3	1	1	9	3
R38	0	0	1	1	9	3
R39	0	0	0	1	9	3
<i>mean</i>	1.44	0.49	1.54	1.49	6.95	2.64

Lampiran 21: Hasil Rekap Penilaian Korelasi Risk Event - Risk Agent (A7)

A7	K(7,1)	K(7,3)	K(7,4)	K(7,5)	K(7,8)	K(7,12)
R1	0	0	1	0	3	3
R2	0	0	3	1	1	1
R3	0	0	1	1	3	3
R4	0	0	1	1	3	3
R5	0	0	0	1	3	3
R6	0	0	1	0	1	3
R7	9	1	9	9	9	9
R8	0	0	0	0	0	0
R9	0	0	1	1	3	1
R10	3	9	1	3	1	1
R11	3	3	3	3	3	3
R12	1	3	1	1	1	0
R13	1	1	1	1	1	0
R14	1	1	3	3	3	1
R15	1	3	1	1	1	0
R16	9	9	9	9	3	3
R17	3	3	9	9	9	9
R18	3	1	1	3	1	1
R19	0	0	0	1	3	3
R20	0	0	0	1	3	3
R21	0	0	1	0	3	3
R22	0	0	0	0	3	3
R23	0	0	1	0	1	1
R24	0	0	1	0	3	1
R25	0	1	1	0	1	3
R26	0	0	1	0	3	3
R27	0	0	0	1	1	3
R28	1	0	1	0	3	3
R29	0	0	1	0	1	1
R30	0	0	1	1	3	3
R31	0	0	0	1	1	3
R32	3	0	0	0	3	3
R33	0	3	1	0	1	3
R34	0	0	0	0	3	3
R35	0	0	1	1	3	3
R36	0	0	1	1	1	1
R37	0	0	1	0	3	3
R38	0	0	1	0	1	3
R39	0	0	0	0	3	1
mean	0.87	0.87	1.49	1.38	2.46	2.49

Lampiran 22: Hasil Rekap Penilaian Korelasi Risk Event - Risk Agent (A8)

A8	K(8,1)	K(8,3)	K(8,4)	K(8,5)	K(8,8)	K(8,12)
R1	0	1	3	1	3	0
R2	1	1	3	1	3	0
R3	1	1	3	1	3	1
R4	1	0	1	1	3	0
R5	1	1	1	1	1	1
R6	1	1	3	1	1	1
R7	9	1	9	9	9	9
R8	0	0	0	0	0	0
R9	1	0	3	1	1	0
R10	1	1	1	1	3	3
R11	1	3	1	1	1	1
R12	1	0	0	3	3	0
R13	3	0	0	1	3	0
R14	3	1	3	3	3	1
R15	1	0	0	3	3	0
R16	3	3	3	3	3	3
R17	3	0	9	3	9	3
R18	1	1	3	3	3	1
R19	0	1	1	1	3	1
R20	0	1	3	1	3	1
R21	1	0	3	1	1	1
R22	1	1	1	0	3	1
R23	1	1	3	1	3	1
R24	1	1	3	3	1	1
R25	0	1	1	1	1	1
R26	0	1	1	0	1	0
R27	1	0	1	0	3	0
R28	0	1	3	0	3	0
R29	0	1	3	1	3	1
R30	1	1	1	1	1	1
R31	1	1	3	0	1	0
R32	0	0	3	0	3	1
R33	1	1	3	1	1	1
R34	0	0	1	0	3	0
R35	1	1	1	1	3	1
R36	1	1	3	1	3	1
R37	0	1	3	0	3	1
R38	1	0	3	1	3	1
R39	1	1	1	1	1	1
<i>mean</i>	1.13	0.82	2.33	1.33	2.62	1.03

Lampiran 23: Hasil Rekap Penilaian Korelasi Risk Event - Risk Agent (A9)

A9	K(9,1)	K(9,3)	K(9,4)	K(9,5)	K(9,8)	K(9,12)
R1	1	1	3	3	3	1
R2	1	0	9	1	3	1
R3	1	1	3	3	3	1
R4	1	1	9	1	1	1
R5	0	1	9	3	3	1
R6	1	1	3	1	3	1
R7	9	1	9	9	9	9
R8	0	0	0	0	0	0
R9	1	1	9	3	1	0
R10	3	3	3	3	1	1
R11	0	0	0	0	0	0
R12	3	0	3	1	3	0
R13	0	0	9	1	3	0
R14	1	1	3	3	3	1
R15	3	0	3	1	3	0
R16	9	9	9	3	3	3
R17	9	0	9	3	3	9
R18	3	3	3	3	3	3
R19	0	1	9	1	3	1
R20	0	1	9	1	1	0
R21	0	1	9	3	3	1
R22	1	1	3	3	3	1
R23	0	1	9	9	3	1
R24	1	1	3	1	3	1
R25	1	0	9	1	3	0
R26	0	1	9	1	3	0
R27	1	1	9	3	1	0
R28	1	1	3	3	3	1
R29	1	1	9	3	3	1
R30	1	1	3	1	3	1
R31	1	0	3	1	1	1
R32	1	1	9	1	1	1
R33	1	0	3	3	3	1
R34	0	1	9	3	1	1
R35	1	1	9	1	3	0
R36	1	1	9	3	3	0
R37	1	1	9	3	1	1
R38	1	1	3	1	3	1
R39	1	1	9	3	3	1
mean	1.56	1.05	6.38	2.33	2.54	1.21

Lampiran 24: Hasil Rekap Penilaian Korelasi Risk Event - Risk Agent (A10)

A10	K(10,1)	K(10,3)	K(10,4)	K(10,5)	K(10,8)	K(10,12)
R1	0	3	3	1	1	0
R2	0	3	3	1	0	0
R3	0	9	3	1	0	0
R4	0	9	1	1	1	0
R5	0	3	3	1	1	0
R6	0	9	3	0	1	0
R7	9	9	9	9	9	0
R8	1	1	0	0	0	0
R9	0	9	1	1	1	0
R10	0	1	0	1	9	3
R11	1	0	1	1	1	1
R12	0	1	0	1	1	1
R13	1	3	1	1	1	1
R14	3	1	3	3	3	1
R15	0	1	0	1	1	1
R16	9	3	1	1	1	1
R17	9	9	9	9	3	3
R18	1	3	1	3	3	1
R19	0	3	1	1	0	0
R20	0	9	1	1	1	0
R21	0	3	1	0	1	0
R22	0	9	3	1	0	0
R23	0	3	3	0	1	0
R24	0	3	3	1	1	0
R25	0	9	3	1	1	0
R26	0	1	3	1	1	0
R27	0	3	3	1	0	0
R28	0	9	3	0	3	0
R29	3	9	3	1	0	0
R30	0	3	3	0	1	0
R31	0	9	3	0	1	0
R32	1	3	1	1	0	0
R33	0	9	1	1	1	0
R34	0	3	3	1	0	0
R35	0	9	3	1	1	0
R36	0	3	3	0	0	0
R37	0	9	3	1	1	0
R38	0	9	1	0	1	0
R39	0	9	1	1	1	0
<i>mean</i>	0.87	5.59	2.44	1.28	1.31	0.33

Lampiran 25: Hasil Rekap Penilaian Korelasi Risk Event - Risk Agent (A11)

A11	K(11,1)	K(11,3)	K(11,4)	K(11,5)	K(11,8)	K(11,12)
R1	1	1	1	1	1	1
R2	1	1	3	0	1	1
R3	1	1	1	1	3	0
R4	0	1	3	0	1	0
R5	1	1	3	1	3	1
R6	1	1	1	0	3	1
R7	9	3	9	3	9	0
R8	0	0	0	0	0	0
R9	0	1	3	1	3	1
R10	1	0	3	0	1	1
R11	0	3	0	0	9	0
R12	1	0	0	0	9	0
R13	0	0	0	0	9	0
R14	3	3	3	3	3	1
R15	1	0	0	0	9	0
R16	9	3	1	3	3	9
R17	3	3	3	3	3	3
R18	3	9	3	3	1	1
R19	0	0	3	1	1	1
R20	1	1	1	1	3	1
R21	0	1	3	1	3	0
R22	1	1	3	0	3	1
R23	1	1	3	1	1	1
R24	1	0	3	0	1	1
R25	1	1	3	1	1	1
R26	3	1	3	0	3	1
R27	3	1	1	1	3	0
R28	0	1	1	0	1	1
R29	9	1	3	1	1	1
R30	0	1	1	0	3	1
R31	1	1	1	0	1	1
R32	1	0	3	0	1	1
R33	1	1	3	1	3	1
R34	0	1	3	1	3	0
R35	1	1	3	1	1	0
R36	1	0	1	0	1	1
R37	0	0	3	0	1	1
R38	0	1	1	0	3	0
R39	0	0	1	0	1	1
<i>mean</i>	1.38	1.10	2.21	0.74	2.59	0.92

Lampiran 26: Hasil Rekap Penilaian Korelasi Risk Event - Risk Agent (A12)

A12	K(12,1)	K(12,3)	K(12,4)	K(12,5)	K(12,8)	K(12,12)
R1	3	0	3	3	9	1
R2	3	1	1	9	9	1
R3	1	0	3	9	9	1
R4	3	0	3	9	9	0
R5	3	1	1	9	9	1
R6	3	0	3	3	9	1
R7	3	0	1	9	3	1
R8	0	0	0	0	0	0
R9	3	1	1	3	9	1
R10	3	3	1	1	3	0
R11	0	0	0	0	0	0
R12	1	1	0	9	9	0
R13	9	0	9	9	9	0
R14	1	1	3	3	3	1
R15	1	0	0	9	9	0
R16	3	9	3	3	3	3
R17	9	3	9	9	9	3
R18	1	1	3	3	3	3
R19	3	1	3	3	9	1
R20	3	0	1	9	9	1
R21	3	1	3	9	9	0
R22	9	1	3	9	3	0
R23	3	1	3	9	9	1
R24	1	1	1	9	3	1
R25	3	1	3	3	9	1
R26	3	0	3	9	9	0
R27	1	1	3	9	3	1
R28	3	1	3	9	9	1
R29	3	1	1	9	9	1
R30	1	1	3	9	3	1
R31	1	0	3	9	9	0
R32	3	1	1	9	9	1
R33	1	0	3	3	9	0
R34	1	0	3	9	9	1
R35	3	1	3	9	9	1
R36	3	1	3	9	3	0
R37	1	1	3	3	9	0
R38	1	0	3	9	9	1
R39	1	1	3	9	3	1
<i>mean</i>	2.59	0.92	2.54	6.95	7.00	0.79

Lampiran 27: Hasil Rekap Penilaian Korelasi Risk Event - Risk Agent (A13)

A13	K(13,1)	K(13,3)	K(13,4)	K(13,5)	K(13,8)	K(13,12)
R1	0	3	1	0	1	0
R2	0	9	0	0	0	0
R3	0	3	1	0	1	0
R4	0	9	0	0	0	0
R5	0	3	1	0	0	0
R6	0	3	0	0	1	0
R7	3	9	9	9	9	0
R8	1	1	1	0	1	1
R9	0	9	0	0	0	0
R10	1	1	0	9	1	1
R11	0	9	9	9	3	3
R12	3	0	3	0	0	0
R13	0	0	0	0	0	0
R14	1	1	3	1	3	1
R15	3	0	3	0	0	0
R16	9	9	9	9	9	9
R17	3	9	9	9	9	9
R18	3	1	3	9	3	1
R19	0	3	0	0	1	0
R20	0	9	0	0	1	0
R21	0	9	0	0	0	0
R22	0	3	1	0	0	0
R23	0	9	1	0	0	0
R24	0	9	3	0	1	0
R25	0	3	1	0	1	0
R26	0	9	1	0	0	0
R27	0	9	0	3	1	0
R28	3	3	1	0	0	0
R29	0	9	0	0	0	0
R30	0	9	1	0	1	0
R31	0	3	1	0	0	0
R32	0	9	1	0	0	0
R33	1	9	0	0	1	0
R34	0	9	1	0	1	0
R35	0	9	0	0	0	0
R36	0	3	1	0	0	0
R37	0	9	1	0	1	0
R38	0	3	0	0	0	0
R39	0	9	0	0	0	0
<i>mean</i>	0.69	6.26	1.62	1.41	1.31	0.64

Lampiran 28: Hasil Rekap Penilaian Korelasi Risk Event - Risk Agent (A14)

A14	K(14,1)	K(14,3)	K(14,4)	K(14,5)	K(14,8)	K(14,12)
R1	9	0	3	3	3	1
R2	9	1	3	3	3	0
R3	3	1	3	3	1	0
R4	9	1	3	9	3	1
R5	3	1	3	9	3	0
R6	9	1	9	9	3	0
R7	9	9	9	9	9	0
R8	0	0	0	0	0	0
R9	9	1	3	9	3	1
R10	9	9	3	9	1	3
R11	1	1	1	1	1	1
R12	9	1	3	3	0	1
R13	9	1	3	3	1	1
R14	3	1	3	3	3	1
R15	9	1	3	3	1	1
R16	3	3	3	3	3	3
R17	9	9	9	9	9	1
R18	3	3	3	3	3	3
R19	3	1	9	9	3	1
R20	9	1	9	9	3	0
R21	9	0	9	9	3	1
R22	9	0	9	9	3	0
R23	9	1	9	3	3	0
R24	3	1	3	3	1	0
R25	9	1	9	9	3	1
R26	9	1	3	9	3	1
R27	9	0	3	9	3	1
R28	9	1	9	9	3	1
R29	9	1	9	9	3	1
R30	3	0	1	3	1	1
R31	9	1	9	9	3	1
R32	3	1	9	9	3	1
R33	3	1	3	9	3	1
R34	9	1	9	9	1	0
R35	9	0	9	3	3	1
R36	9	1	3	3	3	1
R37	3	1	9	9	1	1
R38	9	1	3	9	3	1
R39	9	1	9	9	1	0
<i>mean</i>	6.87	1.54	5.79	6.41	2.64	0.85

Lampiran 29: Hasil Rekap Penilaian Tingkat Kesulitan *Preventive Action* (HOR 2)

	PA1	PA2	PA3	PA4	PA5	PA6	PA7	PA8	PA9	PA10	PA11
R1	3	4	3	3	3	3	3	4	4	4	3
R2	4	4	4	5	5	3	4	3	3	4	4
R3	5	5	3	4	4	3	4	3	4	3	4
R4	4	3	4	5	4	4	4	3	4	5	3
R5	3	4	4	4	3	4	4	5	3	5	3
R6	4	5	4	3	3	4	5	5	5	4	4
R7	4	3	3	5	3	3	3	3	3	4	3
R8	3	3	3	3	3	3	3	3	4	3	3
R9	4	4	4	4	3	3	4	5	5	3	3
R10	3	4	3	4	3	5	5	5	4	5	4
R11	3	3	3	3	4	3	3	3	3	3	3
R12	3	3	4	4	4	3	4	4	3	4	3
R13	3	3	3	4	4	3	3	4	4	4	3
R14	4	3	4	4	4	4	3	4	4	3	4
R15	5	3	3	4	4	3	3	3	4	5	3
R16	4	3	4	4	3	3	3	4	3	4	3
R17	5	3	3	3	4	4	4	3	5	4	3
R18	3	3	3	4	3	3	3	3	3	3	3
R19	4	4	5	4	5	5	5	4	4	4	5
R20	4	4	5	5	5	5	5	5	5	5	4
R21	5	3	5	4	5	3	5	4	5	5	3
R22	5	3	4	4	5	4	5	4	4	5	4
R23	4	4	4	4	5	4	3	4	3	5	4
R24	4	3	5	5	5	4	5	4	5	5	4
R25	3	3	5	5	5	4	5	3	5	5	4
R26	4	3	4	5	5	4	5	4	4	5	4
R27	4	4	5	5	5	3	4	4	3	5	4
R28	4	3	4	5	4	4	5	4	3	4	4
R29	4	3	5	4	3	4	5	4	5	5	5
R30	4	3	5	4	5	3	4	4	3	5	5
R31	3	4	5	4	4	3	5	4	4	5	4
R32	4	3	5	4	5	4	5	5	4	5	4
R33	4	3	5	4	4	4	5	4	3	5	4
R34	5	3	5	5	5	4	5	3	3	5	4
R35	4	3	5	5	5	4	5	4	3	5	4
R36	4	4	3	4	4	4	4	4	3	5	3
R37	4	4	4	5	4	5	4	4	4	5	3
R38	4	3	4	4	4	5	4	3	5	5	4
R39	3	3	4	4	3	4	3	3	4	5	1
<i>mean</i>	3.87	3.41	4.05	4.18	4.13	3.72	4.13	3.82	3.85	4.44	3.59

Lampiran 30: Hasil Rekap Penilaian Korelasi Risk Agent – *Preventive Action* (1)

PA1	K(1,1)	K(1,3)	K(1,4)	K(1,5)	K(1,7)	K(1,8)	K(1,9)	K(1,12)	K(1,13)	K(1,14)
R1	1	1	3	9	1	3	1	3	0	0
R2	3	1	3	9	0	0	0	9	0	0
R3	0	0	3	1	0	0	0	9	0	0
R4	0	0	9	9	1	0	0	9	0	0
R5	3	0	1	0	1	1	0	9	0	1
R6	0	0	3	9	3	0	0	3	9	0
R7	1	0	9	1	1	1	1	3	3	0
R8	3	0	3	9	1	0	0	9	0	0
R9	1	3	1	9	1	0	0	9	0	0
R10	1	3	0	9	1	0	1	9	0	0
R11	3	0	9	3	3	1	0	1	0	0
R12	1	0	9	3	1	0	3	9	0	0
R13	1	0	0	1	0	0	0	3	0	0
R14	1	1	1	1	0	0	0	9	1	1
R15	1	0	9	9	1	0	0	3	0	3
R16	9	0	0	1	1	0	1	3	0	1
R17	1	0	3	3	1	3	3	9	0	0
R18	1	1	0	1	1	0	0	9	3	0
R19	1	0	3	9	0	0	0	0	3	0
R20	1	1	9	3	3	1	0	3	0	0
R21	1	3	3	3	9	3	0	9	1	0
R22	3	0	1	3	0	0	0	9	0	1
R23	3	0	1	3	3	0	9	1	3	0
R24	1	0	9	3	1	1	0	9	0	1
R25	1	0	1	3	1	0	0	9	9	0
R26	1	0	3	3	0	0	0	3	0	0
R27	1	1	0	0	1	0	1	9	1	0
R28	1	0	3	3	1	0	1	3	0	0
R29	1	0	9	3	1	3	0	9	0	1
R30	3	0	3	1	0	0	0	9	0	0
R31	1	1	3	1	0	0	0	9	9	0
R32	0	0	0	1	1	0	0	9	0	0
R33	0	3	9	0	0	0	0	9	0	1
R34	1	1	3	9	1	3	1	9	0	1
R35	1	0	3	1	0	1	0	9	0	0
R36	1	0	9	3	1	0	0	9	0	0
R37	0	0	1	9	0	3	0	9	0	0
R38	1	0	3	3	3	0	0	1	0	0
R39	1	0	9	3	1	0	0	9	0	0
<i>mean</i>	1.41	0.51	3.87	3.95	1.15	0.62	0.56	6.77	1.08	0.28

Lampiran 31: Hasil Rekap Penilaian Korelasi Risk Agent – *Preventive Action* (2)

PA2	K(2,1)	K(2,3)	K(2,4)	K(2,5)	K(2,7)	K(2,8)	K(2,9)	K(2,12)	K(2,13)	K(2,14)
R1	3	3	9	0	3	0	0	3	0	0
R2	9	0	9	1	3	0	0	0	0	0
R3	1	3	3	1	3	1	0	0	0	0
R4	3	9	9	0	3	0	0	1	0	0
R5	3	3	9	1	3	0	0	0	0	1
R6	1	9	9	1	1	0	0	1	0	3
R7	1	1	3	1	9	0	0	3	0	0
R8	3	9	9	0	0	3	0	0	0	0
R9	1	9	9	1	3	0	0	0	0	0
R10	1	1	3	1	3	0	0	0	0	0
R11	3	9	9	0	3	1	0	0	0	0
R12	9	9	3	1	3	0	0	3	3	0
R13	9	9	3	1	1	1	0	0	0	1
R14	3	3	9	1	9	0	0	0	0	0
R15	0	9	1	1	3	0	1	1	1	3
R16	9	9	9	0	3	0	0	0	1	0
R17	3	9	9	1	3	1	0	3	0	1
R18	3	3	9	0	3	0	0	0	0	0
R19	1	9	9	1	1	1	1	0	0	0
R20	3	3	9	0	9	0	0	0	0	0
R21	3	9	9	1	1	0	1	0	0	1
R22	3	9	9	1	1	0	0	0	0	0
R23	3	3	3	3	0	0	0	3	1	0
R24	3	9	9	1	3	0	9	0	0	1
R25	1	9	9	1	3	1	0	3	0	0
R26	9	3	9	9	3	0	0	0	0	0
R27	3	9	0	0	0	0	1	0	1	0
R28	0	3	9	3	3	0	0	0	0	9
R29	1	9	9	1	1	0	3	0	0	0
R30	3	9	3	3	9	0	0	0	0	0
R31	1	9	9	0	0	0	0	0	0	1
R32	3	3	9	0	1	0	0	0	0	0
R33	3	9	9	1	3	0	0	0	0	1
R34	3	9	3	1	3	0	0	0	0	0
R35	3	9	3	1	3	3	0	0	0	0
R36	3	9	9	0	3	0	0	0	3	0
R37	3	9	3	1	9	0	0	1	0	0
R38	0	9	9	0	3	1	0	1	0	0
R39	3	9	3	3	9	0	0	3	0	0
<i>mean</i>	3.08	6.82	6.87	1.10	3.26	0.33	0.38	0.67	0.26	0.56

Lampiran 32: Hasil Rekap Penilaian Korelasi Risk Agent – *Preventive Action* (3)

PA3	K(3,1)	K(3,3)	K(3,4)	K(3,5)	K(3,7)	K(3,8)	K(3,9)	K(3,12)	K(3,13)	K(3,14)
R1	0	1	3	0	0	1	1	1	3	9
R2	0	0	1	1	0	9	1	0	0	3
R3	0	0	3	0	0	9	1	0	0	3
R4	0	0	9	0	0	9	1	0	0	1
R5	1	0	3	0	0	3	3	1	0	1
R6	1	0	1	0	1	9	1	0	0	3
R7	0	3	3	0	0	9	1	0	1	3
R8	0	0	9	9	0	9	0	0	3	3
R9	0	0	3	0	0	9	1	0	0	1
R10	0	1	1	0	0	9	3	0	0	3
R11	0	1	1	0	3	9	1	0	0	1
R12	3	3	1	1	1	9	1	0	3	3
R13	0	0	1	0	0	3	1	0	1	0
R14	0	0	3	0	1	9	1	0	0	3
R15	1	0	0	0	0	9	0	0	0	3
R16	0	0	3	0	0	9	1	0	0	9
R17	0	1	9	0	0	9	0	0	0	1
R18	0	0	3	0	0	9	1	0	0	3
R19	3	0	1	9	0	9	1	0	1	3
R20	1	0	3	1	1	3	1	0	0	9
R21	1	0	3	0	0	1	1	3	0	3
R22	1	0	1	0	9	9	1	1	0	3
R23	3	0	3	0	0	9	0	0	0	3
R24	0	1	1	0	0	3	0	0	0	1
R25	1	1	3	0	0	1	0	0	0	3
R26	0	0	3	0	1	3	3	0	0	9
R27	0	0	9	3	0	9	0	0	0	3
R28	0	0	3	0	0	9	1	9	0	3
R29	0	0	3	0	0	9	0	0	1	1
R30	0	0	0	1	0	3	1	0	0	1
R31	0	1	1	0	0	9	1	3	0	3
R32	1	0	3	0	0	9	1	0	1	1
R33	3	0	9	0	0	9	1	1	0	1
R34	0	0	3	0	0	9	3	3	0	3
R35	0	0	1	3	0	9	1	0	1	3
R36	1	3	9	0	0	3	1	0	0	1
R37	1	0	3	0	0	9	1	0	0	3
R38	0	0	9	0	1	9	0	0	0	3
R39	0	0	9	1	0	3	1	1	0	3
<i>mean</i>	0.56	0.41	3.51	0.74	0.46	7.15	0.97	0.59	0.38	2.97

Lampiran 33: Hasil Rekap Penilaian Korelasi Risk Agent – *Preventive Action* (4)

PA4	K(4,1)	K(4,3)	K(4,4)	K(4,5)	K(4,7)	K(4,8)	K(4,9)	K(4,12)	K(4,13)	K(4,14)
R1	0	0	0	9	0	0	0	3	3	3
R2	3	0	0	3	0	0	3	1	0	0
R3	0	1	0	1	0	0	1	3	9	9
R4	0	0	0	3	0	0	1	0	9	9
R5	0	0	0	1	0	0	3	3	1	9
R6	0	0	1	3	0	0	1	3	3	9
R7	0	0	0	1	0	1	1	0	3	3
R8	0	0	0	3	1	0	1	9	3	3
R9	0	0	0	3	1	0	1	3	1	9
R10	0	0	0	3	3	0	0	9	0	9
R11	0	0	3	3	0	0	1	9	3	3
R12	1	0	1	3	0	1	0	1	1	3
R13	1	1	0	3	0	0	3	1	3	9
R14	3	0	0	3	0	3	0	3	3	9
R15	0	3	0	1	0	0	3	3	3	9
R16	3	0	0	3	1	0	0	3	0	9
R17	0	0	0	9	0	0	0	9	9	9
R18	3	0	0	1	0	0	3	3	3	9
R19	0	1	1	0	0	3	1	3	9	9
R20	0	0	9	3	0	1	1	1	1	9
R21	0	0	0	3	0	0	3	1	3	9
R22	1	1	1	9	0	0	0	1	9	9
R23	0	0	0	9	0	1	1	1	9	9
R24	1	0	0	1	0	0	1	1	3	3
R25	9	1	0	3	1	0	1	3	9	9
R26	0	0	0	3	0	0	3	3	3	9
R27	0	1	0	1	0	0	1	3	1	9
R28	0	1	0	1	0	1	1	1	1	9
R29	1	0	0	1	0	0	1	3	9	9
R30	0	0	1	0	1	0	1	9	3	3
R31	0	0	0	0	0	0	1	3	3	9
R32	0	0	3	9	1	0	1	9	3	3
R33	0	0	0	9	0	0	1	9	1	1
R34	0	0	0	3	0	0	0	9	9	9
R35	0	0	0	9	1	0	1	9	3	1
R36	0	0	9	3	0	0	1	3	9	3
R37	1	0	0	3	0	0	0	0	3	1
R38	0	1	0	9	1	0	0	3	3	3
R39	1	0	1	1	0	1	1	1	3	9
<i>mean</i>	0.72	0.28	0.77	3.49	0.28	0.31	1.10	3.64	3.95	6.62

Lampiran 34: Hasil Rekap Penilaian Korelasi Risk Agent – *Preventive Action* (5)

PA5	K(5,1)	K(5,3)	K(5,4)	K(5,5)	K(5,7)	K(5,8)	K(5,9)	K(5,12)	K(5,13)	K(5,14)
R1	9	3	0	0	1	1	0	1	1	0
R2	1	3	1	1	1	0	0	9	0	0
R3	3	1	0	3	3	0	0	0	0	0
R4	9	1	0	0	1	1	0	0	0	0
R5	9	9	0	0	3	0	0	1	0	0
R6	9	3	1	3	3	0	0	1	0	0
R7	3	3	1	0	1	1	0	1	0	0
R8	0	3	0	0	1	0	0	1	0	1
R9	1	3	0	0	3	0	1	0	0	0
R10	1	9	0	3	9	0	0	1	0	0
R11	3	9	0	3	1	0	3	3	1	0
R12	3	3	0	0	9	0	0	3	0	0
R13	3	3	1	1	1	9	0	1	0	1
R14	1	3	0	1	3	0	1	0	0	0
R15	1	9	0	0	3	0	0	9	3	1
R16	3	1	0	1	3	0	0	1	0	0
R17	1	3	0	3	3	3	0	0	0	0
R18	3	3	1	1	3	0	0	3	0	0
R19	1	3	0	1	0	0	0	1	1	0
R20	3	3	0	1	3	0	0	0	0	0
R21	3	9	0	1	0	0	0	3	1	0
R22	9	3	0	3	1	1	0	0	0	1
R23	1	0	0	1	1	0	0	1	0	1
R24	3	9	0	1	1	3	0	0	1	0
R25	3	9	1	1	3	0	0	1	0	0
R26	1	3	1	1	3	0	0	0	0	0
R27	1	9	0	3	3	0	9	0	0	0
R28	0	3	0	0	9	0	0	1	0	0
R29	3	9	0	1	1	0	0	3	0	0
R30	3	0	0	1	9	3	0	0	0	1
R31	3	3	0	1	0	1	0	1	0	1
R32	9	3	1	1	9	0	0	1	0	0
R33	1	3	0	0	9	0	1	0	0	0
R34	9	3	1	1	9	0	1	1	0	9
R35	3	9	0	9	1	0	1	1	1	0
R36	9	1	0	1	3	0	0	1	0	0
R37	3	9	0	3	3	1	0	1	0	0
R38	9	3	0	1	3	0	0	1	0	0
R39	9	3	0	1	9	0	3	1	0	0
<i>mean</i>	3.82	4.33	0.23	1.36	3.38	0.62	0.51	1.36	0.23	0.41

Lampiran 35: Hasil Rekap Penilaian Korelasi Risk Agent – *Preventive Action* (6)

PA6	K(6,1)	K(6,3)	K(6,4)	K(6,5)	K(6,7)	K(6,8)	K(6,9)	K(6,12)	K(6,13)	K(6,14)
R1	0	0	1	3	1	3	1	3	3	9
R2	0	0	0	1	0	3	0	1	0	1
R3	1	0	1	3	0	9	0	9	0	9
R4	1	0	0	3	0	9	1	3	3	9
R5	1	1	0	9	1	3	0	9	0	9
R6	0	1	0	1	0	3	1	9	3	9
R7	0	0	0	1	0	0	0	3	0	3
R8	0	0	0	9	0	3	0	9	0	1
R9	0	1	0	3	1	3	1	1	1	9
R10	0	0	3	9	0	1	0	1	0	9
R11	1	0	0	9	0	3	1	3	0	9
R12	0	0	0	1	0	3	1	1	0	3
R13	3	0	0	3	0	3	1	3	0	9
R14	1	0	0	1	0	3	3	3	0	9
R15	0	1	0	3	0	0	1	3	1	3
R16	1	0	3	9	0	3	0	9	0	9
R17	0	1	0	3	0	3	0	3	0	9
R18	0	0	9	3	0	3	1	3	1	9
R19	0	0	0	9	3	9	3	9	0	9
R20	0	1	0	9	0	3	0	3	0	9
R21	0	0	0	3	0	3	0	3	0	9
R22	0	0	3	3	3	0	1	3	0	3
R23	1	0	0	1	0	9	9	1	0	9
R24	0	0	0	3	0	3	3	9	0	1
R25	0	0	0	3	0	3	1	3	3	9
R26	1	3	0	0	0	3	0	3	0	0
R27	1	0	0	9	0	0	0	3	0	9
R28	1	0	0	1	0	0	9	3	0	9
R29	0	0	1	1	0	3	1	3	0	3
R30	3	0	1	3	1	1	1	1	0	3
R31	0	1	0	3	0	1	0	3	0	9
R32	0	0	0	0	0	3	0	9	0	3
R33	0	0	9	1	0	0	1	0	1	9
R34	0	0	1	0	0	1	0	3	0	9
R35	0	0	0	3	0	1	1	3	0	3
R36	3	3	1	3	0	3	1	3	0	9
R37	0	0	1	3	1	3	0	3	0	3
R38	0	0	0	9	0	3	1	3	0	9
R39	0	0	0	9	0	3	0	1	0	9
<i>mean</i>	0.49	0.33	0.87	3.85	0.28	2.90	1.13	3.79	0.41	6.77

Lampiran 36: Hasil Rekap Penilaian Korelasi Risk Agent – *Preventive Action* (7)

PA7	K(7,1)	K(7,3)	K(7,4)	K(7,5)	K(7,7)	K(7,8)	K(7,9)	K(7,12)	K(7,13)	K(7,14)
R1	0	0	3	3	0	1	0	3	0	3
R2	0	0	0	3	0	9	0	0	0	3
R3	3	9	3	1	0	3	1	0	0	9
R4	0	1	0	3	3	9	0	1	3	3
R5	1	0	1	9	0	9	1	0	0	9
R6	3	3	1	0	0	3	0	3	9	1
R7	0	0	0	3	1	1	1	1	0	1
R8	0	0	0	9	3	3	1	1	3	3
R9	0	0	0	1	0	3	1	1	1	3
R10	0	0	0	0	1	1	1	0	0	9
R11	0	0	0	3	0	3	0	0	0	3
R12	0	0	0	3	1	9	1	3	0	9
R13	0	1	0	1	0	9	0	1	3	3
R14	0	0	0	3	0	3	0	1	0	3
R15	1	1	0	3	0	3	0	3	1	9
R16	0	3	0	1	0	3	0	1	0	9
R17	0	1	0	3	0	9	0	0	1	3
R18	0	0	1	3	1	3	0	0	0	9
R19	0	0	0	1	1	9	0	3	0	0
R20	0	0	0	3	0	1	1	0	1	3
R21	1	0	0	3	0	3	0	1	0	9
R22	1	1	1	9	0	3	1	1	0	0
R23	9	0	0	3	9	9	0	0	3	9
R24	0	0	0	1	1	3	0	3	0	9
R25	0	0	1	1	0	1	0	0	0	3
R26	0	0	0	9	0	9	0	1	0	9
R27	0	1	0	9	0	1	0	1	0	9
R28	0	0	0	9	0	9	0	0	0	9
R29	0	0	0	3	0	3	1	0	0	3
R30	0	0	0	3	3	3	0	1	0	9
R31	0	0	0	3	0	1	0	0	0	9
R32	0	0	0	1	0	3	0	1	0	9
R33	0	0	0	3	0	9	0	0	0	9
R34	0	0	0	1	0	3	0	0	0	9
R35	0	0	0	3	0	9	1	1	3	3
R36	0	0	0	9	0	3	0	1	0	9
R37	1	0	3	3	0	3	3	0	0	9
R38	0	0	0	9	0	1	0	1	0	9
R39	0	0	0	3	0	1	0	0	1	9
<i>mean</i>	0.51	0.54	0.36	3.62	0.62	4.38	0.36	0.87	0.74	6.13

Lampiran 37: Hasil Rekap Penilaian Korelasi Risk Agent – Preventive Action (8)

PA8	K(8,1)	K(8,3)	K(8,4)	K(8,5)	K(8,7)	K(8,8)	K(8,9)	K(8,12)	K(8,13)	K(8,14)
R1	0	0	0	3	0	0	1	9	9	9
R2	0	0	0	3	0	3	1	3	3	9
R3	0	0	1	9	0	0	0	9	3	3
R4	0	0	0	9	0	0	1	9	3	3
R5	0	0	1	9	0	0	1	1	3	3
R6	1	0	1	9	0	0	1	3	3	0
R7	0	0	0	0	0	0	1	9	1	3
R8	0	0	0	3	1	0	1	3	9	3
R9	1	0	0	9	0	0	1	9	1	3
R10	0	0	0	9	0	0	3	3	3	1
R11	1	0	0	1	0	0	0	9	1	0
R12	1	0	0	3	3	0	3	9	3	1
R13	0	0	3	9	0	1	1	9	0	9
R14	0	1	0	9	1	0	1	9	1	3
R15	0	0	0	9	0	0	1	9	1	1
R16	1	0	0	9	0	0	1	9	1	1
R17	0	1	1	9	1	0	1	9	0	0
R18	3	0	0	0	1	0	1	9	3	9
R19	1	0	0	9	1	3	0	9	1	9
R20	0	0	0	9	0	3	3	9	1	9
R21	0	0	0	9	0	0	0	9	3	3
R22	0	1	0	9	0	0	1	9	3	1
R23	0	0	0	9	0	0	1	9	0	3
R24	0	3	9	9	0	1	3	9	3	1
R25	1	0	0	9	0	1	3	9	1	3
R26	0	0	0	3	0	1	1	9	3	3
R27	0	0	0	9	0	1	1	9	3	3
R28	3	0	0	9	0	0	1	9	3	9
R29	0	0	1	1	0	0	1	9	9	3
R30	1	0	1	9	0	3	0	3	1	3
R31	0	1	0	9	0	3	3	9	9	3
R32	0	0	1	3	0	0	1	9	3	3
R33	0	0	0	9	1	0	0	9	9	9
R34	1	0	1	9	0	3	1	9	9	3
R35	3	1	3	9	0	0	0	9	9	1
R36	0	0	0	9	1	3	1	3	3	0
R37	0	0	0	1	0	0	1	9	3	3
R38	3	1	0	3	0	1	1	9	3	3
R39	0	0	1	9	9	0	0	3	1	9
<i>mean</i>	0.54	0.23	0.62	6.85	0.49	0.69	1.10	7.72	3.28	3.72

Lampiran 38: Hasil Rekap Penilaian Korelasi Risk Agent – *Preventive Action* (9)

PA9	K(9,1)	K(9,3)	K(9,4)	K(9,5)	K(9,7)	K(9,8)	K(9,9)	K(9,12)	K(9,13)	K(9,14)
R1	0	1	0	1	9	0	1	3	3	3
R2	3	0	0	0	9	3	0	3	0	0
R3	3	0	0	1	3	0	0	3	0	1
R4	1	0	0	3	9	0	0	9	0	0
R5	3	0	0	3	9	0	0	9	0	1
R6	0	0	0	3	1	1	0	9	0	0
R7	1	0	0	3	9	0	0	3	1	0
R8	0	0	3	1	3	0	0	3	0	0
R9	3	1	0	1	9	0	1	9	0	0
R10	3	0	0	9	9	0	3	3	0	0
R11	1	1	0	3	9	0	9	9	3	0
R12	0	1	0	9	3	0	0	1	3	0
R13	3	1	0	9	9	1	1	9	0	0
R14	1	0	1	3	9	0	1	9	3	0
R15	1	0	1	1	9	0	0	0	0	1
R16	1	1	1	3	9	0	0	9	0	0
R17	0	0	1	9	9	3	0	3	0	0
R18	1	0	0	1	9	0	0	9	0	1
R19	0	1	0	3	3	0	0	3	3	0
R20	1	1	0	1	9	0	0	3	0	0
R21	0	0	0	9	9	0	0	1	3	0
R22	0	1	0	3	9	3	0	9	0	3
R23	1	0	0	3	3	0	0	3	0	0
R24	0	3	0	3	3	1	0	3	0	0
R25	0	1	0	3	9	0	3	3	1	1
R26	0	1	1	1	9	1	0	3	0	0
R27	1	1	0	3	9	1	0	1	0	0
R28	1	1	0	0	0	0	0	3	0	0
R29	1	1	0	1	3	0	1	3	0	0
R30	1	9	1	9	3	0	0	0	1	0
R31	1	1	0	3	9	0	0	3	0	0
R32	0	0	0	1	9	0	0	3	0	0
R33	1	1	0	1	3	0	0	9	1	0
R34	1	1	0	9	9	3	0	3	0	1
R35	9	3	3	9	3	0	3	1	0	0
R36	1	3	1	1	9	0	0	3	0	1
R37	1	0	0	3	9	0	0	9	0	0
R38	1	1	1	3	9	3	0	9	0	0
R39	1	1	3	3	9	0	0	1	0	0
<i>mean</i>	1.21	0.95	0.44	3.46	7.03	0.51	0.59	4.59	0.56	0.33

Lampiran 39: Hasil Rekap Penilaian Korelasi Risk Agent – *Preventive Action* (10)

PA10	K(10,1)	K(10,3)	K(10,4)	K(10,5)	K(10,7)	K(10,8)	K(10,9)	K(10,12)	K(10,13)	K(10,14)
R1	0	0	0	3	0	0	3	3	9	3
R2	1	0	0	3	1	0	3	0	3	3
R3	0	1	1	9	0	0	0	0	9	1
R4	1	0	0	1	0	0	1	1	3	3
R5	0	0	0	3	0	0	3	0	9	9
R6	0	0	0	1	0	1	9	1	3	9
R7	3	1	0	3	3	1	3	3	9	9
R8	0	0	0	3	1	0	3	0	3	0
R9	1	0	0	3	0	0	9	0	3	9
R10	0	0	0	3	0	1	1	1	9	3
R11	0	1	1	1	0	1	1	3	9	9
R12	0	0	0	3	1	1	3	0	3	3
R13	0	0	0	0	0	0	3	0	9	3
R14	3	3	0	9	0	0	1	0	9	3
R15	3	9	0	3	0	0	1	0	9	3
R16	0	1	0	3	0	0	0	0	9	3
R17	0	0	0	0	0	0	1	0	9	3
R18	0	1	0	9	3	0	3	1	9	1
R19	0	3	0	1	1	0	3	0	9	1
R20	0	0	3	1	0	0	9	0	9	3
R21	0	0	0	3	0	1	0	1	3	3
R22	0	0	0	9	0	0	1	1	9	3
R23	9	0	0	1	0	0	3	0	9	3
R24	3	0	1	3	1	0	0	0	9	9
R25	0	0	3	9	1	0	0	0	3	3
R26	1	0	0	3	0	1	9	3	9	3
R27	1	1	0	9	0	3	3	1	9	1
R28	3	0	1	3	1	0	1	1	9	9
R29	0	0	0	1	0	0	9	0	9	1
R30	1	0	0	1	1	0	3	1	3	3
R31	0	1	3	0	0	0	9	0	3	3
R32	0	0	0	3	0	0	9	0	9	9
R33	0	0	0	3	0	0	0	1	9	9
R34	0	0	3	3	0	0	3	0	9	3
R35	1	3	0	0	0	0	9	3	3	1
R36	0	0	1	3	0	1	3	0	3	9
R37	0	0	0	3	1	0	3	0	3	1
R38	0	3	0	0	0	0	9	0	3	3
R39	0	3	0	3	1	0	3	0	3	9
<i>mean</i>	0.72	0.79	0.44	3.13	0.41	0.28	3.51	0.64	6.69	4.26

Lampiran 40: Hasil Rekap Penilaian Korelasi Risk Agent – *Preventive Action* (11)

PA11	K(11,1)	K(11,3)	K(11,4)	K(11,5)	K(11,7)	K(11,8)	K(11,9)	K(11,12)	K(11,13)	K(11,14)
R1	9	3	3	1	1	0	0	0	0	0
R2	9	0	1	0	3	0	0	0	0	1
R3	3	1	3	0	9	0	0	0	0	0
R4	9	3	9	0	3	0	0	0	0	0
R5	3	3	3	0	3	0	1	0	0	0
R6	0	3	0	3	3	0	0	0	0	0
R7	9	3	9	0	3	0	0	0	1	0
R8	9	3	3	0	1	1	0	0	1	0
R9	9	1	0	0	3	0	0	0	0	0
R10	9	1	1	1	3	0	0	0	0	0
R11	3	1	3	0	3	0	0	0	0	0
R12	9	3	3	1	3	0	0	0	0	0
R13	9	1	3	0	9	1	0	3	0	0
R14	9	9	3	0	3	0	0	0	0	3
R15	3	3	3	1	9	3	0	0	1	1
R16	3	9	3	0	3	0	3	0	0	0
R17	3	1	3	0	1	0	0	0	3	0
R18	9	3	9	0	3	3	0	1	1	0
R19	9	3	3	1	0	0	1	0	1	0
R20	9	0	1	1	1	0	1	0	0	3
R21	3	9	0	0	3	1	0	1	0	0
R22	9	9	3	1	3	0	0	1	0	0
R23	1	1	1	0	3	1	1	0	0	0
R24	3	1	0	0	3	0	0	0	1	0
R25	3	3	9	1	9	1	1	0	0	0
R26	0	3	0	0	1	0	0	0	0	0
R27	3	3	3	0	3	0	0	1	1	1
R28	9	3	3	0	3	0	1	0	0	0
R29	9	3	3	0	3	0	0	0	0	0
R30	9	3	3	1	3	3	3	0	0	0
R31	3	3	1	0	1	0	0	1	3	0
R32	9	9	9	0	3	0	0	0	0	0
R33	9	9	3	0	3	0	1	0	0	0
R34	9	9	3	0	1	0	0	0	0	0
R35	3	3	3	1	3	0	0	0	1	0
R36	9	0	1	0	3	0	1	0	1	0
R37	9	9	9	0	9	9	0	0	0	3
R38	3	1	3	0	1	0	0	0	0	0
R39	1	9	3	0	1	0	1	1	0	0
<i>mean</i>	6.13	3.69	3.23	0.33	3.23	0.59	0.38	0.23	0.38	0.31

Lampiran 40: Uji Validitas Dan Reliabilitas (S)

		Correlations																
		E01	E02	E03	E04	E05	E06	E07	E08	E09	E10	E11	E12	E13	E14	E15	S_TOTAL	
E01	Pearson Correlation	1	.371*	.286	.611**	.385*	.355*	.367*	.226	.381*	.510**	.196	.614**	.602**	.490**	.204	.647**	
	Sig. (2-tailed)		.020	.077	<.001	.016	.026	.022	.167	.017	<.001	.233	<.001	<.001	.002	.213	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E02	Pearson Correlation	.371*	1	.533**	.610**	.726**	.371*	.646**	.248	.430**	.303	.350*	.154	.016	.111	.092	.625**	
	Sig. (2-tailed)	.020		<.001	<.001	<.001	.020	<.001	.128	.006	.061	.029	.348	.925	.501	.577	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E03	Pearson Correlation	.286	.533**	1	.605**	.546**	.488**	.531**	.538**	.577**	.496**	.134	.220	.150	.213	.359*	.701**	
	Sig. (2-tailed)	.077	<.001		<.001	<.001	.002	<.001	<.001	<.001	.001	.416	.178	.363	.194	.025	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E04	Pearson Correlation	.611**	.610**	.605**	1	.638**	.502**	.531**	.496**	.655**	.557**	.303	.331*	.368*	.280	.284	.791**	
	Sig. (2-tailed)	<.001	<.001	<.001		<.001	.001	<.001	.001	<.001	<.001	.061	.039	.021	.084	.079	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E05	Pearson Correlation	.385*	.726**	.546**	.638**	1	.395*	.647**	.391*	.513**	.565**	.309	.141	.065	.169	.302	.707**	
	Sig. (2-tailed)	.016	<.001	<.001	<.001		.013	<.001	.014	<.001	<.001	.055	.391	.695	.303	.062	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E06	Pearson Correlation	.355*	.371*	.488**	.502**	.395*	1	.754**	.510**	.650**	.408**	.297	.112	.390*	.496**	.701**	.756**	
	Sig. (2-tailed)	.026	.020	.002	.001	.013		<.001	<.001	<.001	.010	.067	.498	.014	.001	<.001	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E07	Pearson Correlation	.367*	.646**	.531**	.531**	.647**	.754**	1	.479**	.842**	.420**	.247	.008	.119	.098	.395*	.736**	
	Sig. (2-tailed)	.022	<.001	<.001	<.001	<.001	<.001		.002	<.001	<.001	.008	.129	.960	.470	.553	.013	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E08	Pearson Correlation	.226	.248	.538**	.496**	.391*	.510**	.479**	1	.608**	.405*	.348*	.228	.336*	.281	.496**	.670**	
	Sig. (2-tailed)	.167	.128	<.001	.001	.014	<.001	.002		<.001	.011	.030	.164	.036	.084	.001	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E09	Pearson Correlation	.381*	.430**	.577**	.655**	.513**	.650**	.842**	.608**	1	.496**	.244	.177	.219	.050	.309	.735**	
	Sig. (2-tailed)	.017	.006	<.001	<.001	<.001	<.001	<.001	<.001		.001	.134	.280	.181	.764	.055	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E10	Pearson Correlation	.510**	.303	.496**	.557**	.565**	.408**	.420**	.405*	.496**	1	.440**	.550**	.588**	.510**	.567**	.775**	
	Sig. (2-tailed)	<.001	.061	.001	<.001	<.001	.010	.008	.011	.001		.005	<.001	<.001	<.001	<.001	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E11	Pearson Correlation	.196	.350*	.134	.303	.309	.297	.247	.348*	.244	.440**	1	.291	.218	.318*	.166	.482**	
	Sig. (2-tailed)	.233	.029	.416	.061	.055	.067	.129	.030	.134	.005		.072	.182	.049	.314	.002	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E12	Pearson Correlation	.614**	.154	.220	.331*	.141	.112	.008	.228	.177	.550**	.291	1	.792**	.522**	.294	.514**	
	Sig. (2-tailed)	<.001	.348	.178	.039	.391	.498	.960	.164	.280	<.001	.072		<.001	<.001	.069	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E13	Pearson Correlation	.602**	.016	.150	.368*	.065	.390*	.119	.336*	.219	.588**	.218	.792**	1	.740**	.581**	.582**	
	Sig. (2-tailed)	<.001	.925	.363	.021	.695	.014	.470	.036	.181	<.001	.182	<.001		<.001	<.001	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E14	Pearson Correlation	.490**	.111	.213	.280	.169	.496**	.098	.281	.050	.510**	.318*	.522**	.740**	1	.538*	.562**	
	Sig. (2-tailed)	.002	.501	.194	.084	.303	.001	.553	.084	.764	<.001	.049	<.001	<.001		<.001	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E15	Pearson Correlation	.204	.092	.359*	.284	.302	.701**	.395*	.496**	.309	.567**	.166	.294	.581**	.538**	1	.624**	
	Sig. (2-tailed)	.213	.577	.025	.079	.062	<.001	.013	.001	.055	<.001	.314	.069	<.001	<.001		<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
S_TOTAL	Pearson Correlation	.647**	.625**	.701**	.791**	.707**	.756**	.736**	.670**	.735**	.775**	.482**	.514**	.582**	.562**	.624**	1	
	Sig. (2-tailed)	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001	.002	<.001	<.001	<.001	<.001		
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	

*. Correlation is significant at the 0.05 level (2-tailed).

**. Correlation is significant at the 0.01 level (2-tailed).

Reliability Statistics

Cronbach's Alpha	N of Items
.906	15

Lampiran 41: Uji Validitas Dan Reliabilitas (O)

		Correlations																
		E01	E02	E03	E04	E05	E06	E07	E08	E09	E10	E11	E12	E13	E14	E15	O_TOTAL	
E01	Pearson Correlation	1	.496**	.262	.500**	.639**	.233	.174	-.072	.029	.175	.130	.277	.280	.237	.167	.438**	
	Sig. (2-tailed)		.001	.107	.001	<.001	.153	.288	.664	.862	.288	.431	.088	.084	.147	.311	.005	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E02	Pearson Correlation	.496**	1	.293	.656**	.739**	.708**	.679**	.251	.197	.476**	.328*	.209	.530**	.245	.231	.673**	
	Sig. (2-tailed)	.001		.070	<.001	<.001	<.001	<.001	.123	.230	.002	.041	.203	<.001	.133	.158	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E03	Pearson Correlation	.262	.293	1	.577**	.335*	.289	.196	.365*	.476**	.388*	.486**	.665**	.663**	.565**	.527**	.686**	
	Sig. (2-tailed)	.107	.070		<.001	.037	.074	.231	.022	.002	.015	.002	<.001	<.001	<.001	<.001	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E04	Pearson Correlation	.500**	.656**	.577**	1	.653**	.546**	.553**	.449**	.440**	.681**	.593**	.657**	.653**	.511**	.385*	.853**	
	Sig. (2-tailed)	.001	<.001	<.001		<.001	<.001	<.001	.004	.005	<.001	<.001	<.001	<.001	<.001	.015	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E05	Pearson Correlation	.639**	.739**	.335*	.653**	1	.553**	.410**	.340*	.377**	.358*	.345*	.274	.564**	.395*	.339*	.701**	
	Sig. (2-tailed)	<.001	<.001	.037	<.001		<.001	.010	.034	.018	.025	.031	.091	<.001	.013	.035	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E06	Pearson Correlation	.233	.708**	.289	.546**	.553**	1	.669**	.172	.357**	.188	.449**	.193	.606**	.250	.405*	.632**	
	Sig. (2-tailed)	.153	<.001	.074	<.001	<.001		<.001	.295	.026	.252	.004	.238	<.001	.125	.011	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E07	Pearson Correlation	.174	.679**	.196	.553**	.410**	.669**	1	.389*	.136	.535**	.221	.179	.330*	.015	.066	.516**	
	Sig. (2-tailed)	.288	<.001	.231	<.001	.010	<.001		.014	.411	<.001	.177	.275	.040	.928	.689	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E08	Pearson Correlation	-.072	.251	.365*	.449**	.340*	.172	.389*	1	.658**	.625**	.327**	.392*	.321*	.570**	.443**	.594**	
	Sig. (2-tailed)	.664	.123	.022	.004	.034	.295	.014		<.001	<.001	.042	.013	.047	<.001	.005	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E09	Pearson Correlation	.029	.197	.476**	.440**	.377**	.357**	.136	.658**	1	.506**	.642**	.637**	.506**	.766**	.730**	.722**	
	Sig. (2-tailed)	.862	.230	.002	.005	.018	.026	.411	<.001		.001	<.001	<.001	.001	<.001	<.001	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E10	Pearson Correlation	.175	.476**	.388*	.681**	.358*	.188	.535**	.625**	.506**	1	.502**	.691**	.417**	.536**	.360*	.714**	
	Sig. (2-tailed)	.288	.002	.015	<.001	.025	.252	<.001	<.001	.001		.001	<.001	.008	<.001	.024	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E11	Pearson Correlation	.130	.328*	.486**	.593**	.345*	.449**	.221	.327**	.642**	.502**	1	.722**	.713**	.670**	.662**	.761**	
	Sig. (2-tailed)	.431	.041	.002	<.001	.031	.004	.177	.042	<.001	.001		<.001	<.001	<.001	<.001	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E12	Pearson Correlation	.277	.209	.665**	.657**	.274	.193	.179	.392*	.637**	.691**	.722**	1	.580**	.741**	.572**	.761**	
	Sig. (2-tailed)	.088	.203	<.001	<.001	.091	.238	.275	.013	<.001	<.001	<.001		<.001	<.001	<.001	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E13	Pearson Correlation	.280	.530**	.663**	.653**	.564**	.606**	.330*	.321*	.506**	.417**	.713**	.580**	1	.588**	.534**	.800**	
	Sig. (2-tailed)	.084	<.001	<.001	<.001	<.001	<.001	.040	.047	.001	.008	<.001	<.001		<.001	<.001	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E14	Pearson Correlation	.237	.245	.565**	.511**	.395*	.250	.015	.570**	.766**	.536**	.670**	.741**	.588**	1	.879**	.784**	
	Sig. (2-tailed)	.147	.133	<.001	<.001	.013	.125	.928	<.001	<.001	<.001	<.001	<.001	<.001		<.001	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E15	Pearson Correlation	.167	.231	.527**	.385*	.339*	.405*	.066	.443**	.730**	.360*	.662**	.572**	.534**	.879**	1	.718**	
	Sig. (2-tailed)	.311	.158	<.001	.015	.035	.011	.689	.005	<.001	.024	<.001	<.001	<.001	<.001	<.001	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
O_TOTAL	Pearson Correlation	.438**	.673**	.686**	.853**	.701**	.632**	.516**	.594**	.722**	.714**	.761**	.761**	.800**	.784**	.718**	1	
	Sig. (2-tailed)	.005	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001		
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	

** Correlation is significant at the 0.01 level (2-tailed).

* Correlation is significant at the 0.05 level (2-tailed).

Reliability Statistics

Cronbach's Alpha	N of Items
.922	15

Lampiran 42: Uji Validitas Dan Reliabilitas (D)

		Correlations																
		E01	E02	E03	E04	E05	E06	E07	E08	E09	E10	E11	E12	E13	E14	E15	D_TOTAL	
E01	Pearson Correlation	1	.825**	.501**	.475**	.533**	.381*	.421**	.674**	.529**	.434**	.461**	.336*	.723**	.555**	.652**	.745**	
	Sig. (2-tailed)		<.001	.001	.002	<.001	.017	.008	<.001	<.001	.006	.003	.037	<.001	<.001	<.001	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E02	Pearson Correlation	.825**	1	.513**	.451**	.503**	.571**	.493**	.640**	.560**	.382*	.414**	.236	.611**	.501**	.589**	.722**	
	Sig. (2-tailed)	<.001		<.001	.004	.001	<.001	.001	<.001	<.001	.016	.009	.149	<.001	.001	<.001	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E03	Pearson Correlation	.501**	.513**	1	.662**	.615**	.439**	.156	.726**	.769**	.661**	.687**	.726**	.413**	.492**	.494**	.786**	
	Sig. (2-tailed)	.001	<.001		<.001	<.001	.005	.344	<.001	<.001	<.001	<.001	<.001	.009	.001	.001	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E04	Pearson Correlation	.475**	.451**	.662**	1	.875**	.551**	.244	.564**	.719**	.611**	.683**	.766**	.702**	.592**	.626**	.856**	
	Sig. (2-tailed)	.002	.004	<.001		<.001	<.001	.134	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E05	Pearson Correlation	.533**	.503**	.615**	.875**	1	.423**	.373*	.688**	.711**	.504**	.604**	.643**	.756**	.706**	.694**	.860**	
	Sig. (2-tailed)	<.001	.001	<.001	<.001		.007	.019	<.001	<.001	.001	<.001	<.001	<.001	<.001	<.001	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E06	Pearson Correlation	.381*	.571**	.439**	.551**	.423**	1	.464**	.599**	.414**	.186	.415**	.305	.487**	.513**	.727**	.665**	
	Sig. (2-tailed)	.017	<.001	.005	<.001	.007		.003	<.001	.009	.257	.009	.059	.002	<.001	<.001	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E07	Pearson Correlation	.421**	.493**	.156	.244	.373*	.464**	1	.521**	.041	.095	.005	-.088	.567**	.302	.440**	.433**	
	Sig. (2-tailed)	.008	.001	.344	.134	.019	.003		<.001	.805	.566	.978	.596	<.001	.061	.005	.006	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E08	Pearson Correlation	.674**	.640**	.726**	.564*	.688**	.599**	.521**	1	.635**	.321*	.560**	.442**	.569**	.619**	.748**	.820**	
	Sig. (2-tailed)	<.001	<.001	<.001	<.001	<.001	<.001	<.001		<.001	.046	<.001	.005	<.001	<.001	<.001	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E09	Pearson Correlation	.529**	.560**	.769**	.719**	.711**	.414**	.041	.635**	1	.621**	.755**	.794**	.506**	.575**	.608**	.825**	
	Sig. (2-tailed)	<.001	<.001	<.001	<.001	<.001	.009	.805	<.001		<.001	<.001	<.001	<.001	<.001	<.001	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E10	Pearson Correlation	.434**	.382*	.661**	.611**	.504**	.186	.095	.321*	.621**	1	.801**	.810**	.471**	.380*	.261	.670**	
	Sig. (2-tailed)	.006	.016	<.001	<.001	.001	.257	.566	.046	<.001		<.001	<.001	.002	.017	.109	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E11	Pearson Correlation	.461**	.414**	.687**	.683**	.604**	.415**	.005	.560**	.755**	.801**	1	.854**	.497**	.445**	.509**	.778**	
	Sig. (2-tailed)	.003	.009	<.001	<.001	<.001	.009	.978	<.001	<.001	<.001		<.001	.001	.005	<.001	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E12	Pearson Correlation	.336*	.236	.726**	.766**	.643**	.305	-.088	.442**	.794**	.810**	.854**	1	.409**	.454**	.431**	.734**	
	Sig. (2-tailed)	.037	.149	<.001	<.001	<.001	.059	.596	.005	<.001	<.001	<.001		.010	.004	.006	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E13	Pearson Correlation	.723**	.611**	.413**	.702**	.756**	.487**	.567**	.569**	.506**	.471**	.497**	.409**	1	.509**	.748**	.798**	
	Sig. (2-tailed)	<.001	<.001	.009	<.001	<.001	.002	<.001	<.001	.001	.002	.001	.010		<.001	<.001	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E14	Pearson Correlation	.555**	.501**	.492**	.592**	.706**	.513**	.302	.619**	.575**	.380*	.445**	.454**	.509**	1	.692**	.736**	
	Sig. (2-tailed)	<.001	.001	.001	<.001	<.001	<.001	.061	<.001	<.001	.017	.005	.004	<.001		<.001	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
E15	Pearson Correlation	.652**	.589**	.494**	.626**	.694**	.727**	.440**	.748**	.608**	.261	.509**	.431**	.748**	.692**	1	.824**	
	Sig. (2-tailed)	<.001	<.001	.001	<.001	<.001	<.001	.005	<.001	<.001	.109	<.001	.006	<.001	<.001		<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
D_TOTAL	Pearson Correlation	.745**	.722**	.786**	.856**	.860**	.665**	.433**	.820**	.825**	.670**	.778**	.734**	.798**	.736**	.824**	1	
	Sig. (2-tailed)	<.001	<.001	<.001	<.001	<.001	<.001	.006	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001		
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	

** . Correlation is significant at the 0.01 level (2-tailed).

* . Correlation is significant at the 0.05 level (2-tailed).

Reliability Statistics

Cronbach's Alpha	N of Items
.944	15

Lampiran 43: Uji Validitas Dan Reliabilitas (OA)

		Correlations														
		OA01	OA02	OA03	OA04	OA05	OA06	OA07	OA08	OA09	OA10	OA11	OA12	OA13	OA14	OA_TOTAL
OA01	Pearson Correlation	1	.191	.212	.014	.345*	.203	.035	.125	.152	.176	-.023	.142	.330*	.325*	.446**
	Sig. (2-tailed)		.245	.194	.934	.031	.216	.834	.449	.356	.284	.889	.387	.040	.043	.004
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
OA02	Pearson Correlation	.191	1	.206	.316*	.243	.487**	.284	.424**	.263	.321*	.203	.185	.246	.361*	.632**
	Sig. (2-tailed)	.245		.208	.050	.137	.002	.080	.007	.106	.046	.214	.258	.132	.024	<.001
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
OA03	Pearson Correlation	.212	.206	1	.315	-.034	.400*	.176	.231	.125	.531**	-.018	.238	.184	.332*	.517**
	Sig. (2-tailed)	.194	.208		.051	.838	.012	.284	.158	.450	<.001	.912	.145	.261	.039	<.001
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
OA04	Pearson Correlation	.014	.316*	.315	1	.312	.460**	.429**	.064	.154	.264	.095	.300	.352*	.381*	.608**
	Sig. (2-tailed)	.934	.050	.051		.053	.003	.006	.698	.351	.104	.564	.064	.028	.017	<.001
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
OA05	Pearson Correlation	.345*	.243	-.034	.312	1	.378*	.191	.142	.125	.049	.052	.298	.104	.446**	.494**
	Sig. (2-tailed)	.031	.137	.838	.053		.018	.244	.387	.447	.765	.755	.065	.528	.004	.001
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
OA06	Pearson Correlation	.203	.487**	.400*	.460**	.378*	1	.195	.271	.038	.342*	-.044	.226	.076	.564**	.624**
	Sig. (2-tailed)	.216	.002	.012	.003	.018		.234	.096	.818	.033	.792	.166	.645	<.001	<.001
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
OA07	Pearson Correlation	.035	.284	.176	.429**	.191	.195	1	.255	.299	.287	.169	.262	.037	.201	.499**
	Sig. (2-tailed)	.834	.080	.284	.006	.244	.234		.117	.064	.077	.304	.108	.825	.221	.001
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
OA08	Pearson Correlation	.125	.424**	.231	.064	.142	.271	.255	1	.449**	.519**	.149	.067	.056	-.041	.471**
	Sig. (2-tailed)	.449	.007	.158	.698	.387	.096	.117		.004	<.001	.367	.687	.734	.806	.002
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
OA09	Pearson Correlation	.152	.263	.125	.154	.125	.038	.299	.449**	1	.327*	-.030	.511**	-.146	.145	.426**
	Sig. (2-tailed)	.356	.106	.450	.351	.447	.818	.064	.004		.042	.858	<.001	.374	.380	.007
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
OA10	Pearson Correlation	.176	.321*	.531**	.264	.049	.342*	.287	.519**	.327*	1	.366*	.451**	.074	.170	.652**
	Sig. (2-tailed)	.284	.046	<.001	.104	.765	.033	.077	<.001	.042		.022	.004	.655	.302	<.001
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
OA11	Pearson Correlation	-.023	.203	-.018	.095	.052	-.044	.169	.149	-.030	.366*	1	.394*	.175	-.058	.359*
	Sig. (2-tailed)	.889	.214	.912	.564	.755	.792	.304	.367	.858	.022		.013	.286	.728	.025
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
OA12	Pearson Correlation	.142	.185	.238	.300	.298	.226	.262	.067	.511**	.451**	.394*	1	-.053	.353*	.595**
	Sig. (2-tailed)	.387	.258	.145	.064	.065	.166	.108	.687	<.001	.004	.013		.749	.027	<.001
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
OA13	Pearson Correlation	.330*	.246	.184	.352*	.104	.076	.037	.056	-.146	.074	.175	-.053	1	.240	.403*
	Sig. (2-tailed)	.040	.132	.261	.028	.528	.645	.825	.734	.374	.655	.286	.749		.141	.011
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
OA14	Pearson Correlation	.325*	.361*	.332*	.381*	.446**	.564**	.201	-.041	.145	.170	-.058	.353*	.240	1	.624**
	Sig. (2-tailed)	.043	.024	.039	.017	.004	<.001	.221	.806	.380	.302	.728	.027	.141		<.001
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
OA_TOTAL	Pearson Correlation	.446**	.632**	.517**	.608**	.494**	.624**	.499**	.471**	.426**	.652**	.359*	.595**	.403*	.624**	1
	Sig. (2-tailed)	.004	<.001	<.001	<.001	.001	<.001	.001	.002	.007	<.001	.025	<.001	.011	<.001	
	N	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39

*. Correlation is significant at the 0.05 level (2-tailed).

**. Correlation is significant at the 0.01 level (2-tailed).

Reliability Statistics

Cronbach's Alpha	N of Items
.789	14

Lampiran 44: Daftar Risk Event

KODE	RISK EVENT	REFRENSI
E1	Kesulitan memperoleh material karena keterbatasan stok lokal	(Joseph et al., 2025; Sibuea & Saragi, 2019)
E2	Kesulitan akses lokasi proyek	
E3	Gangguan keamanan dalam pengiriman ke lokasi proyek	(Lantana et al., 2024)
E4	Pengiriman dari vendor terkendala	
E5	Kesulitan mencari material	(Saputro, 2022)
E6	Kesalahan permintaan pembelian	(Sibuea & Saragi, 2019)
E7	Kegagalan pengendalian terhadap jadwal permintaan pembelian	
E8	Proses pengadaan material dan komponen terlambat	
E9	Kegagalan komunikasi dan koordinasi antar pihak proyek	
E10	Pemesanan tambahan material karena perubahan spesifikasi	(Hatmoko & Kistiani, 2017)
E11	Pemesanan tambahan material karena perubahan fungsi ruang	
E12	Pemesanan tambahan material karena perubahan desain mendadak oleh owner	
E13	Perubahan pemesanan material karena ketidaksesuaian atau ketidaktepatan jadwal	(Hatmoko & Kistiani, 2017; Ismael & Junaidi, 2014)
E14	Kurangnya kemampuan manajerial dari subkontraktor sehingga pekerjaan tidak selesai tepat waktu	
E15	Kelalaian subkontraktor dan kontraktor dalam penanganan material	

Lampiran 45: Daftar *Risk Agent*

KODE	RISK AGENT	REFRENSI
A1	Kesalahan dan keterlambatan dalam pengambilan keputusan	(Sibuea & Saragi, 2019)
A2	Hubungan kerja yang tidak harmonis antar pemilik, konsultan, dan kontraktor	
A3	Proses persetujuan izin yang bertele-tele	
A4	Perubahan design dari pihak owner	
A5	Kelemahan dalam perencanaan logistic	
A6	Evaluasi teknis yang berlarut-larut	
A7	Terjadi perselisihan (perbedaan pendapat) antara aktor proyek	
A8	SDM bekerja tidak efektif	
A9	Ketidaktepatan dalam pemilihan vendor	
A10	Gangguan logistik seperti sosial & politik	(Lantana et al., 2024)
A11	SDM yang kurang kompeten	
A12	Ketidaktelitian perencanaan pembelian material	
A13	Faktor cuaca yang tidak menentu	
A14	Ketergantungan tinggi pada vendor luar pulau	

