

## Lampiran 2

### 1. Faktor internal

$$A. BF(\%) = \frac{NU}{\Sigma NU} \times 100\% \Rightarrow \frac{7}{43} \times 100\% = 15,56 \%$$

$$B. BF(\%) = \frac{NU}{\Sigma NU} \times 100\% \Rightarrow \frac{2}{43} \times 100\% = 4,44 \%$$

$$C. BF(\%) = \frac{NU}{\Sigma NU} \times 100\% \Rightarrow \frac{9}{43} \times 100\% = 20,00 \%$$

$$D. BF(\%) = \frac{NU}{\Sigma NU} \times 100\% \Rightarrow \frac{5}{43} \times 100\% = 11,11 \%$$

$$E. BF(\%) = \frac{NU}{\Sigma NU} \times 100\% \Rightarrow \frac{4}{43} \times 100\% = 8,89 \%$$

$$F. BF(\%) = \frac{NU}{\Sigma NU} \times 100\% \Rightarrow \frac{5}{43} \times 100\% = 9,30 \%$$

$$G. BF(\%) = \frac{NU}{\Sigma NU} \times 100\% \Rightarrow \frac{3}{43} \times 100\% = 6,67 \%$$

$$H. BF(\%) = \frac{NU}{\Sigma NU} \times 100\% \Rightarrow \frac{4}{43} \times 100\% = 11,63 \%$$

$$I. BF(\%) = \frac{NU}{\Sigma NU} \times 100\% \Rightarrow \frac{3}{43} \times 100\% = 6,67 \%$$

$$J. BF(\%) = \frac{NU}{\Sigma NU} \times 100\% \Rightarrow \frac{3}{43} \times 100\% = 6,67 \%$$

### 2. Faktor Eksternal

$$A. BF(\%) = \frac{NU}{\Sigma NU} \times 100\% \Rightarrow \frac{3}{43} \times 100\% = 6,98 \%$$

$$B. BF(\%) = \frac{NU}{\Sigma NU} \times 100\% \Rightarrow \frac{9}{43} \times 100\% = 20,93 \%$$

$$C. BF(\%) = \frac{NU}{\Sigma NU} \times 100\% \Rightarrow \frac{3}{43} \times 100\% = 6,98 \%$$

$$D. BF(\%) = \frac{NU}{\Sigma NU} \times 100\% \Rightarrow \frac{5}{43} \times 100\% = 11,63 \%$$

$$E. BF(\%) = \frac{NU}{\Sigma NU} \times 100\% \Rightarrow \frac{2}{43} \times 100\% = 4,65 \%$$

$$F. BF(\%) = \frac{NU}{\Sigma NU} \times 100\% \Rightarrow \frac{4}{43} \times 100\% = 9,30 \%$$

$$G. BF(\%) = \frac{NU}{\Sigma NU} \times 100\% \Rightarrow \frac{6}{43} \times 100\% = 13,95 \%$$

$$H. BF(\%) = \frac{NU}{\Sigma NU} \times 100\% \Rightarrow \frac{4}{43} \times 100\% = 9,30 \%$$

$$I. BF(\%) = \frac{NU}{\Sigma NU} \times 100\% \Rightarrow \frac{3}{43} \times 100\% = 6,98 \%$$

$$J. BF(\%) = \frac{NU}{\Sigma NU} \times 100\% \Rightarrow \frac{4}{43} \times 100\% = 9,30 \%$$

Lampiran 4.2. Hasil Perhitungan Nilai Bobot Faktor

### Lampiran 3

#### a. Faktor internal

$$1. NRK = \frac{TNK \text{ (total nilai keterkaitan)}}{\Sigma NF \text{ (jumlah faktor yang dinilai)}-1} \Rightarrow \frac{71}{(20-1)} = 3,74$$

$$2. NRK = \frac{TNK \text{ (total nilai keterkaitan)}}{\Sigma NF \text{ (jumlah faktor yang dinilai)}-1} \Rightarrow \frac{64}{(20-1)} = 3,37$$

$$3. NRK = \frac{TNK \text{ (total nilai keterkaitan)}}{\Sigma NF \text{ (jumlah faktor yang dinilai)}-1} \Rightarrow \frac{74}{(20-1)} = 3,89$$

$$4. NRK = \frac{TNK \text{ (total nilai keterkaitan)}}{\Sigma NF \text{ (jumlah faktor yang dinilai)}-1} \Rightarrow \frac{69}{(20-1)} = 3,63$$

$$5. NRK = \frac{TNK \text{ (total nilai keterkaitan)}}{\Sigma NF \text{ (jumlah faktor yang dinilai)}-1} \Rightarrow \frac{55}{(20-1)} = 2,89$$

$$6. NRK = \frac{TNK \text{ (total nilai keterkaitan)}}{\Sigma NF \text{ (jumlah faktor yang dinilai)}-1} \Rightarrow \frac{50}{(20-1)} = 2,63$$

$$7. NRK = \frac{TNK \text{ (total nilai keterkaitan)}}{\Sigma NF \text{ (jumlah faktor yang dinilai)}-1} \Rightarrow \frac{54}{(20-1)} = 2,84$$

$$8. NRK = \frac{TNK \text{ (total nilai keterkaitan)}}{\Sigma NF \text{ (jumlah faktor yang dinilai)}-1} \Rightarrow \frac{55}{(20-1)} = 2,89$$

$$9. NRK = \frac{TNK \text{ (total nilai keterkaitan)}}{\Sigma NF \text{ (jumlah faktor yang dinilai)}-1} \Rightarrow \frac{56}{(20-1)} = 2,95$$

$$10. NRK = \frac{TNK \text{ (total nilai keterkaitan)}}{\Sigma NF \text{ (jumlah faktor yang dinilai)}-1} \Rightarrow \frac{54}{(20-1)} = 2,84$$

#### b. Faktor eksternal

$$11. NRK = \frac{TNK \text{ (total nilai keterkaitan)}}{\Sigma NF \text{ (jumlah faktor yang dinilai)}-1} \Rightarrow \frac{63}{(20-1)} = 3,32$$

$$12. NRK = \frac{TNK \text{ (total nilai keterkaitan)}}{\Sigma NF \text{ (jumlah faktor yang dinilai)}-1} \Rightarrow \frac{67}{(20-1)} = 3,53$$

$$13. NRK = \frac{TNK \text{ (total nilai keterkaitan)}}{\Sigma NF \text{ (jumlah faktor yang dinilai)}-1} \Rightarrow \frac{56}{(20-1)} = 2,95$$

$$14. NRK = \frac{TNK \text{ (total nilai keterkaitan)}}{\Sigma NF \text{ (jumlah faktor yang dinilai)}-1} \Rightarrow \frac{54}{(20-1)} = 2,84$$

$$15. NRK = \frac{TNK \text{ (total nilai keterkaitan)}}{\Sigma NF \text{ (jumlah faktor yang dinilai)}-1} \Rightarrow \frac{63}{(20-1)} = 3,32$$

$$16. NRK = \frac{TNK \text{ (total nilai keterkaitan)}}{\Sigma NF \text{ (jumlah faktor yang dinilai)}-1} \Rightarrow \frac{37}{(20-1)} = 1,95$$

$$17. NRK = \frac{TNK \text{ (total nilai keterkaitan)}}{\Sigma NF \text{ (jumlah faktor yang dinilai)}-1} \Rightarrow \frac{50}{(20-1)} = 2,63$$

$$18. NRK = \frac{TNK \text{ (total nilai keterkaitan)}}{\Sigma NF \text{ (jumlah faktor yang dinilai)}-1} \Rightarrow \frac{53}{(20-1)} = 2,79$$

$$19. NRK = \frac{TNK \text{ (total nilai keterkaitan)}}{\Sigma NF \text{ (jumlah faktor yang dinilai)}-1} \Rightarrow \frac{41}{(20-1)} = 2,16$$

$$20. NRK = \frac{TNK \text{ (total nilai keterkaitan)}}{\Sigma NF \text{ (jumlah faktor yang dinilai)}-1} \Rightarrow \frac{41}{(20-1)} = 2,16$$

Hasil perhitungan NRK (Nilai Relatif Keterkaitan)

## Lampiran 4

### Nilai Bobot Dukungan (NBD)

$$1. \text{NBD}(S1) = \frac{\text{BF}(S1) \times \text{ND}(S1)}{100} = \frac{15,56 \times 4}{100} = 0,65$$

$$2. \text{NBD}(S2) = \frac{\text{BF}(S2) \times \text{ND}(S2)}{100} = \frac{4,44 \times 4}{100} = 0,19$$

$$3. \text{NBD}(S3) = \frac{\text{BF}(S3) \times \text{ND}(S3)}{100} = \frac{20,00 \times 5}{100} = 1,05$$

$$4. \text{NBD}(S4) = \frac{\text{BF}(S4) \times \text{ND}(S4)}{100} = \frac{11,11 \times 3}{100} = 0,35$$

$$5. \text{NBD}(S5) = \frac{\text{BF}(S5) \times \text{ND}(S5)}{100} = \frac{8,89 \times 4}{100} = 0,37$$

$$6. \text{NBD}(W1) = \frac{\text{BF}(W1) \times \text{ND}(W1)}{100} = \frac{11,11 \times 3}{100} = 0,28$$

$$7. \text{NBD}(W2) = \frac{\text{BF}(W2) \times \text{ND}(W2)}{100} = \frac{6,67 \times 1}{100} = 0,05$$

$$8. \text{NBD}(W3) = \frac{\text{BF}(W3) \times \text{ND}(W3)}{100} = \frac{8,89 \times 3}{100} = 0,35$$

$$9. \text{NBD}(W4) = \frac{\text{BF}(W4) \times \text{ND}(W4)}{100} = \frac{6,67 \times 2}{100} = 0,14$$

$$10. \text{NBD}(W5) = \frac{\text{BF}(W5) \times \text{ND}(W5)}{100} = \frac{6,67 \times 1}{100} = 0,05$$

$$11. \text{NBD}(O1) = \frac{\text{BF}(O1) \times \text{ND}(O1)}{100} = \frac{6,98 \times 3}{100} = 0,21$$

$$12. \text{NBD}(O2) = \frac{\text{BF}(O2) \times \text{ND}(O2)}{100} = \frac{20,93 \times 5}{100} = 1,05$$

$$13. \text{NBD}(O3) = \frac{\text{BF}(O3) \times \text{ND}(O3)}{100} = \frac{6,98 \times 3}{100} = 0,21$$

$$14. \text{NBD}(O4) = \frac{\text{BF}(O4) \times \text{ND}(O4)}{100} = \frac{11,63 \times 4}{100} = 0,47$$

$$15. \text{NBD}(O5) = \frac{\text{BF}(O5) \times \text{ND}(O5)}{100} = \frac{4,65 \times 2}{100} = 0,14$$

$$16. \text{NBD}(T1) = \frac{\text{BF}(T1) \times \text{ND}(T1)}{100} = \frac{9,30 \times 2}{100} = 0,14$$

$$17. \text{NBD}(T2) = \frac{\text{BF}(T2) \times \text{ND}(T2)}{100} = \frac{13,95 \times 1}{100} = 0,14$$

$$18. \text{NBD}(T3) = \frac{\text{BF}(T3) \times \text{ND}(T3)}{100} = \frac{9,30 \times 3}{100} = 0,28$$

$$19. \text{NBD}(T4) = \frac{\text{BF}(T4) \times \text{ND}(T4)}{100} = \frac{6,98 \times 2}{100} = 0,14$$

$$20. \text{NBD}(T5) = \frac{\text{BF}(T5) \times \text{ND}(T5)}{100} = \frac{9,30 \times 2}{100} = 0,19$$

### Nilai Bobot Keterkaitan (NBK)

$$1. \text{NBK}(S1) = \frac{\text{BF}(S1) \times \text{NRK}(S1)}{100} = \frac{15,56 \times 3,74}{100} = 0.58128655$$

$$2. \text{NBK}(S2) = \frac{\text{BF}(S2) \times \text{NRK}(S2)}{100} = \frac{4,44 \times 3,374}{100} = 0.149707602$$

$$3. \text{NBK}(S3) = \frac{\text{BF}(S3) \times \text{NRK}(S3)}{100} = \frac{20,00 \times 3,89}{100} = 0.778947368$$

$$4. \text{NBK}(S4) = \frac{\text{BF}(S4) \times \text{NRK}(S4)}{100} = \frac{11,11 \times 3,63}{100} = 0.403508772$$

$$5. \text{NBK}(S5) = \frac{\text{BF}(S5) \times \text{NRK}(S5)}{100} = \frac{8,89 \times 2,89}{100} = 0.257309942$$

$$6. \text{NBK}(W1) = \frac{\text{BF}(W1) \times \text{NRK}(W1)}{100} = \frac{11,11 \times 2,63}{100} = 0.292397661$$

$$7. \text{NBK}(W2) = \frac{\text{BF}(W2) \times \text{NRK}(W2)}{100} = \frac{6,67 \times 2,84}{100} = 0.189473684$$

$$8. \text{NBK}(W3) = \frac{\text{BF}(W3) \times \text{NRK}(W3)}{100} = \frac{8,89 \times 2,89}{100} = 0.257309942$$

$$9. \text{NBK}(W4) = \frac{\text{BF}(W4) \times \text{NRK}(W4)}{100} = \frac{6,67 \times 2,95}{100} = 0.196491228$$

$$10. \text{NBK}(W5) = \frac{\text{BF}(W5) \times \text{NRK}(W5)}{100} = \frac{6,67 \times 2,84}{100} = 0.189473684$$

$$11. \text{NBK}(O1) = \frac{\text{BF}(O1) \times \text{NRK}(O1)}{100} = \frac{6,98 \times 3,32}{100} = 0.231334149$$

$$12. \text{NBK}(O2) = \frac{\text{BF}(O2) \times \text{NRK}(O2)}{100} = \frac{20,93 \times 3,53}{100} = 0.738066095$$

$$13. \text{NBK}(O3) = \frac{\text{BF}(O3) \times \text{NRK}(O3)}{100} = \frac{6,98 \times 2,95}{100} = 0.205630355$$

$$14. \text{NBK}(O4) = \frac{\text{BF}(O4) \times \text{NRK}(O4)}{100} = \frac{11,63 \times 2,84}{100} = 0.330477356$$

$$15. \text{NBK}(O5) = \frac{\text{BF}(O5) \times \text{NRK}(O5)}{100} = \frac{4,65 \times 3,32}{100} = 0.154222766$$

$$16. \text{NBK}(T1) = \frac{\text{BF}(T1) \times \text{NRK}(T1)}{100} = \frac{9,30 \times 1,94}{100} = 0.181150551$$

$$17. \text{NBK}(T2) = \frac{\text{BF}(T2) \times \text{NRK}(T2)}{100} = \frac{13,95 \times 2,63}{100} = 0.367197062$$

$$18. \text{NBK}(T3) = \frac{\text{BF}(T3) \times \text{NRK}(T3)}{100} = \frac{9,30 \times 0,28}{100} = 0.259485924$$

$$19. \text{NBK}(T3) = \frac{\text{BF}(T3) \times \text{NRK}(T3)}{100} = \frac{13,04 \times 2,68}{100} = 0.150550796$$

$$20. \text{NBK}(T_5) = \frac{\text{BF}(T_5) \times \text{NRK}(T_5)}{100} = \frac{10,87 \times 2,89}{100} = 0.166462668$$

**Total Nilai Bobot (TNB)**

1.  $\text{TNB}(S_1) = \text{NBD}(S_1) + \text{NBK}(S_1) = 0,62 + 0.58128655 = 1,20 \rightarrow 2$
2.  $\text{TNB}(S_2) = \text{NBD}(S_2) + \text{NBK}(S_2) = 0,18 + 0.149707602 = 0,33$
3.  $\text{TNB}(S_3) = \text{NBD}(S_3) + \text{NBK}(S_3) = 1,00 + 0.778947368 = 1,78 \rightarrow 1$
4.  $\text{TNB}(S_4) = \text{NBD}(S_4) + \text{NBK}(S_4) = 0,33 + 0.403508772 = 0,74$
5.  $\text{TNB}(S_5) = \text{NBD}(S_5) + \text{NBK}(S_5) = 0,36 + 0.257309942 = 0,61$
6.  $\text{TNB}(W_1) = \text{NBD}(W_1) + \text{NBK}(W_1) = 0,33 + 0.292397661 = 0,63 \rightarrow 1$
7.  $\text{TNB}(W_2) = \text{NBD}(W_2) + \text{NBK}(W_2) = 0,07 + 0.189473684 = 0,26$
8.  $\text{TNB}(W_3) = \text{NBD}(W_3) + \text{NBK}(W_3) = 0,27 + 0.257309942 = 0,52 \rightarrow 2$
9.  $\text{TNB}(W_4) = \text{NBD}(W_4) + \text{NBK}(W_4) = 0,13 + 0.196491228 = 0,33$
10.  $\text{TNB}(W_5) = \text{NBD}(W_5) + \text{NBK}(W_5) = 0,07 + 0.189473684 = 0,26$
11.  $\text{TNB}(O_1) = \text{NBD}(O_1) + \text{NBK}(O_1) = 0,21 + 0.231334149 = 0,44$
12.  $\text{TNB}(O_2) = \text{NBD}(O_2) + \text{NBK}(O_2) = 1,05 + 0.738066095 = 1,78 \rightarrow 1$
13.  $\text{TNB}(O_3) = \text{NBD}(O_3) + \text{NBK}(O_3) = 0,21 + 0.205630355 = 0,41$
14.  $\text{TNB}(O_4) = \text{NBD}(O_4) + \text{NBK}(O_4) = 0,47 + 0.330477356 = 0,80 \rightarrow 2$
15.  $\text{TNB}(O_5) = \text{NBD}(O_5) + \text{NBK}(O_5) = 0,09 + 0.154222766 = 0,25$
16.  $\text{TNB}(T_1) = \text{NBD}(T_1) + \text{NBK}(T_1) = 0,19 + 0.181150551 = 0,37$
17.  $\text{TNB}(T_2) = \text{NBD}(T_2) + \text{NBK}(T_2) = 0,14 + 0.367197062 = 0,51 \rightarrow 2$
18.  $\text{TNB}(T_3) = \text{NBD}(T_3) + \text{NBK}(T_3) = 0,28 + 0.150550796 = 0,54 \rightarrow 1$
19.  $\text{TNB}(T_4) = \text{NBD}(T_4) + \text{NBK}(T_4) = 0,14 + 0.150550796 = 0,29$
20.  $\text{TNB}(T_5) = \text{NBD}(T_5) + \text{NBK}(T_5) = 0,19 + 0.166462668 = 0,35$

Perhitungan NBD, NBK, TNB