**Tabel 1 Data Calon Pembeli dan Pembeli**

| **No** | **Nama** | **Kriteria** | **Status** |
| --- | --- | --- | --- |
| 1 | Desi | Harga, Mesin, Body | Calon Pembeli |
| 2 | Rahmat | Jarak, Ban, Mesin, Surat, Tahun, Body | Pembeli |
| 3 | Akbar | Ban, Mesin, Surat, Tahun | Calon Pembeli |
| 4 | Dian | Harga, Merek, Mesin, Body | Calon Pembeli |
| 5 | Rizki | Jarak, Ban, Mesin, Tahun | Calon Pembeli |
| 6 | Wawan | Harga, Jarak, Ban, Mesin, Surat, Body | Pembeli |
| 7 | Diki | Merek, Aksesoris, Ban, Mesin | Calon Pembeli |
| 8 | Sigit | Harga, Ban, Mesin, Surat, Body | Calon Pembeli |
| 9 | Basir | Jarak, Ban, Mesin, Surat | Calon Pembeli |
| 10 | Yuli | Harga, Merek, Ban, Body | Calon Pembeli |
| 11 | Indah | Harga, Merek, Ban, Mesin, Body | Pembeli |
| 12 | Rene | Harga, Surat, Body | Calon Pembeli |
| 13 | Yuyun | Jarak, Mesin, Body | Calon Pembeli |
| 14 | Daman | Harga, Jarak, Mesin, Body | Calon Pembeli |
| 15 | Rohana | Merek, Ban, Body | Calon Pembeli |
| 16 | Suci | Harga, Merek, Body | Calon Pembeli |
| 17 | Putra | Jarak, Merek, Mesin, Surat | Calon Pembeli |
| 18 | Rahman | Harga, Jarak, Aksesoris, Mesin, Body | Pembeli |
| 19 | Purnama | Merek, Mesin, Surat, Body | Calon Pembeli |
| 20 | Vira | Harga, Jarak, Ban, Mesin, Surat, Body | Pembeli |
| 21 | Suharsono | Harga, Mesin, Surat, Body | Calon Pembeli |
| 22 | Sari | Harga, Merek, Mesin, Surat | Calon Pembeli |
| 23 | Aini | Harga, Merek, Ban, Mesin, Surat, Body | Pembeli |
| 24 | Tama | Harga, Mesin, Surat | Calon Pembeli |
| 25 | Cindy | Harga, Ban, Mesin, Tahun | Calon Pembeli |
| 26 | Sri | Harga, Surat, Tahun | Calon Pembeli |
| 27 | Rendi | Harga, Merek, Mesin, Surat, Body | Calon Pembeli |
| 28 | Taufiq | Merek, Mesin, Surat, Tahun | Calon Pembeli |
| 29 | Aidil | Harga, Jarak, Merek, Mesin, Surat, Body | Pembeli |
| 30 | Rifqy | Harga, Jarak, Mesin, Surat | Calon Pembeli |
| 31 | Aldi | Merek, Ban, Mesin, Surat, Body | Calon Pembeli |
| 32 | Juli | Harga, Jarak, Merek, Ban, Surat, Body | Pembeli |

**Tabel 2 Data Alternatif**

| **No** | **Alternatif** |
| --- | --- |
| 1 | Yamaha Mio Merah (2011) |
| 2 | Yamaha Mio Hijau (2009) |
| 3 | Yamaha Mio Putih (2011) |
| 4 | Yamaha Mio Merah (2011) |
| 5 | Honda Beat Hitam (2012) |
| 6 | Honda Beat Merah (2012) |
| 7 | Honda Beat Putih (2012) |
| 8 | Honda Beat Pink (2010) |
| 9 | Honda Beat Merah (2010) |
| 10 | Honda Beat Hijau (2008) |
| 11 | Suzuki Spin 125SR Merah (2012) |
| 12 | Yamaha Vega R Putih (2008) |
| 13 | Yamaha Vega R Merah (2008) |
| 14 | Yamaha Jupiter MX Merah (2014) |
| 15 | Yamaha Jupiter MX Gold (2014) |
| 16 | Yamaha Jupiter MX Putih (2014) |
| 17 | Yamaha Jupiter Z Merah (2010) |
| 18 | Yamaha Jupiter Z Biru (2010) |
| 19 | Yamaha Jupiter Z Hitam (2010) |
| 20 | Yamaha Jupiter Z Merah (2009) |
| 21 | Honda CRF Hijau Stabilo (2020) |
| 22 | Honda CRF Merah (2019) |
| 23 | Yamaha NMAX Putih (2020) |
| 24 | Yamaha NMAX Merah (2019) |
| 25 | Yamaha NMAX Hitam (2023) |
| 26 | Honda Megapro Merah (2015) |
| 27 | Honda Megapro Hitam (2015) |
| 28 | Honda Megapro Biru (2012) |
| 29 | Honda Vario 125 Merah (2015) |
| 30 | Honda Vario 125 Putih (2015) |
| 31 | Honda Vario 150 Abu (2018) |
| 32 | Honda Vario 150 Merah (2018) |
| 33 | Yamaha Vega R Biru (2008) |
| 34 | Yamaha R15 Hitam (2019) |
| 35 | Yamaha R15 Biru (2019) |
| 36 | Honda CBR 250RR Merah (2018) |
| 37 | Honda CBR 150R Merah (2021) |
| 38 | Honda Scoopy F1 Merah (2019) |
| 39 | Suzuki Smash FI Merah (2022) |
| 40 | Suzuki NEX II Hitam (2021) |
| 41 | Suzuki Satria F150 Biru (2019) |
| 42 | Suzuki Satria F150 Putih (2017) |
| 43 | Kawasaki KLX 150 Hijau (2016) |
| 44 | Kawasaki KLX 150 BF Hijau (2018) |
| 45 | Yamaha Z1 Biru (2021) |
| 46 | Yamaha Z1 Merah (2021) |
| 47 | Yamaha Vixion Hitam (2010) |
| 48 | Yamaha Vixion Merah (2010) |
| 49 | Yamaha Vixion Hitam (2015) |
| 50 | Yamaha Vixion Putih (2010) |
| 51 | Honda Supra X Putih (2006) |
| 52 | Yamaha Jupiter Z1 Merah (2010) |
| 53 | Honda Supra X 125 Putih (2013) |
| 54 | Honda Scoopy Merah (2012) |
| 55 | Yamaha Vixion Putih (2008) |
| 56 | Honda Megapro Primus Hitam (2008) |
| 57 | Yamaha Vixion Hitam (2011) |
| 58 | Honda Beat Merah (2008) |
| 59 | Kawasaki Ninja 250 Fi Hijau (2018) |
| 60 | Yamaha Aerox 155 Kuning (2018) |
| 61 | Yamaha Vixion Putih (2012) |
| 62 | Honda Supra X 125 Merah (2012) |
| 63 | Kawasaki Ninja R 150 Hijau (2010) |

**Tabel 3 Data Kriteria**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Kode** | **Nama Kriteria** | **Bobot** | **Jenis** |
| 1 | C1 | Jarak Tempuh | 0,1 | *Cost* |
| 2 | C2 | Harga | 0,15 | *Cost* |
| 3 | C3 | Merek | 0,11 | *Benefit* |
| 4 | C4 | Aksesoris | 0,01 | *Benefit* |
| 5 | C5 | Kondisi Ban | 0,15 | *Benefit* |
| 6 | C6 | Kondisi Mesin | 0,18 | *Benefit* |
| 7 | C7 | Kondisi Body | 0,16 | *Benefit* |
| 8 | C8 | Kelengkapan Surat | 0,14 | *Benefit* |

**Tabel 4 Data Sub Kriteria**

| **No** | **Kriteria** | **Sub Kriteria** | **Bobot Sub Kriteria** |
| --- | --- | --- | --- |
| 1 | Jarak Tempuh | Dibawah 50.000 Km | 1 |
| 50.001 – 100.000 Km | 2 |
| 100.001 – 150.000 Km | 3 |
| 150.001 – 200.000 Km | 4 |
| Diatas 200.000 Km | 5 |
| 2 | Harga | Dibawah 5 Juta | 1 |
| 6 Sampai 10 Juta | 2 |
| 11 Sampai 15 Juta | 3 |
| 16 Sampai 20 Juta | 4 |
| Diatas 20 Juta | 5 |
| 3 | Merek | Honda | 1 |
| Kawasaki | 2 |
| Suzuki | 3 |
| Yamaha | 4 |
| 4 | Aksesoris | Tidak Ada | 1 |
| Ada | 2 |
| 5 | Kondisi | Cukup | 1 |
| Baik | 2 |
| Sangat Baik | 3 |
| 6 | Kelengkapan Surat | Tidak Ada | 1 |
| 1 Surat | 2 |
| 2 Surat | 3 |
| Lengkap | 4 |

**Tabel 5 Penilaian Setiap Alternatif**

| **No** | **Alternatif** | **C1** | **C2** | **C3** | **C4** | **C5** | **C6** | **C7** | **C8** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | Yamaha Mio Merah (2011) | 150.001 - 200.000 Km | Dibawah 5 Juta | Yamaha | Tidak | Sangat Baik | Baik | Baik | 1 Surat |
| 2 | Yamaha Mio Hijau (2009) | 150.001 - 200.000 Km | Dibawah 5 Juta | Yamaha | Tidak | Sangat Baik | Baik | Baik | 1 Surat |
| 3 | Yamaha Mio Putih (2011) | 150.001 - 200.000 Km | Dibawah 5 Juta | Yamaha | Tidak | Sangat Baik | Baik | Baik | 1 Surat |
| 4 | Yamaha Mio Merah (2011) | 150.001 - 200.000 Km | Dibawah 5 Juta | Yamaha | Tidak | Sangat Baik | Baik | Baik | 1 Surat |
| 5 | Honda Beat Hitam (2012) | 150.001 - 200.000 Km | 6 - 10 Juta | Honda | Tidak | Sangat Baik | Baik | Baik | 1 Surat |
| 6 | Honda Beat Merah (2012) | 150.001 - 200.000 Km | 6 - 10 Juta | Honda | Tidak | Sangat Baik | Baik | Baik | 1 Surat |
| 7 | Honda Beat Putih (2012) | 150.001 - 200.000 Km | 6 - 10 Juta | Honda | Tidak | Sangat Baik | Baik | Baik | 1 Surat |
| 8 | Honda Beat Pink (2010) | 150.001 - 200.000 Km | 6 - 10 Juta | Honda | Tidak | Sangat Baik | Baik | Baik | 1 Surat |
| 9 | Honda Beat Merah (2010) | 150.001 - 200.000 Km | Dibawah 5 Juta | Honda | Tidak | Sangat Baik | Baik | Baik | 2 Surat |
| 10 | Honda Beat Hijau (2008) | 150.001 - 200.000 Km | Dibawah 5 Juta | Honda | Tidak | Sangat Baik | Baik | Cukup | 1 Surat |
| 11 | Suzuki Spin 125SR Merah (2012) | 150.001 - 200.000 Km | Dibawah 5 Juta | Suzuki | Tidak | Sangat Baik | Baik | Baik | 1 Surat |
| 12 | Yamaha Vega R Putih (2008) | Diatas 200.000 Km | 6 - 10 Juta | Yamaha | Tidak | Baik | Baik | Baik | 1 Surat |
| 13 | Yamaha Vega R Merah (2008) | Diatas 200.000 Km | 6 - 10 Juta | Yamaha | Tidak | Baik | Baik | Cukup | 1 Surat |
| 14 | Yamaha Jupiter MX Merah (2014) | 150.001 - 200.000 Km | 6 - 10 Juta | Yamaha | Tidak | Sangat Baik | Baik | Baik | 2 Surat |
| 15 | Yamaha Jupiter MX Gold (2014) | 150.001 - 200.000 Km | 6 - 10 Juta | Yamaha | Tidak | Sangat Baik | Baik | Baik | 2 Surat |
| 16 | Yamaha Jupiter MX Putih (2014) | 50.001 - 100.000 Km | 6 - 10 Juta | Yamaha | Tidak | Sangat Baik | Baik | Baik | 1 Surat |
| 17 | Yamaha Jupiter Z Merah (2010) | Diatas 200.000 Km | Dibawah 5 Juta | Yamaha | Tidak | Sangat Baik | Baik | Baik | 1 Surat |
| 18 | Yamaha Jupiter Z Biru (2010) | Diatas 200.000 Km | Dibawah 5 Juta | Yamaha | Tidak | Baik | Baik | Baik | Tidak Ada |
| 19 | Yamaha Jupiter Z Hitam (2010) | 150.001 - 200.000 Km | Dibawah 5 Juta | Yamaha | Tidak | Sangat Baik | Baik | Baik | Tidak Ada |
| 20 | Yamaha Jupiter Z Merah (2009) | Diatas 200.000 Km | Dibawah 5 Juta | Yamaha | Tidak | Sangat Baik | Baik | Baik | Tidak Ada |
| 21 | Honda CRF Hijau Stabilo (2020) | Dibawah 50.000 Km | Diatas 20 Juta | Honda | Tidak | Sangat Baik | Sangat Baik | Sangat Baik | Lengkap |
| 22 | Honda CRF Merah (2019) | 50.001 - 100.000 Km | Diatas 20 Juta | Honda | Tidak | Sangat Baik | Sangat Baik | Baik | Lengkap |
| 23 | Yamaha NMAX Putih (2020) | 50.001 - 100.000 Km | Diatas 20 Juta | Yamaha | Tidak | Sangat Baik | Sangat Baik | Sangat Baik | Lengkap |
| 24 | Yamaha NMAX Merah (2019) | 50.001 - 100.000 Km | Diatas 20 Juta | Yamaha | Tidak | Sangat Baik | Baik | Sangat Baik | Lengkap |
| 25 | Yamaha NMAX Hitam (2023) | 50.001 - 100.000 Km | Diatas 20 Juta | Yamaha | Tidak | Sangat Baik | Sangat Baik | Sangat Baik | Lengkap |
| 26 | Honda Megapro Merah (2015) | 150.001 - 200.000 Km | 11 - 15 Juta | Honda | Tidak | Sangat Baik | Baik | Baik | 1 Surat |
| 27 | Honda Megapro Hitam (2015) | 150.001 - 200.000 Km | 11 - 15 Juta | Honda | Tidak | Sangat Baik | Baik | Baik | 2 Surat |
| 28 | Honda Megapro Biru (2012) | 150.001 - 200.000 Km | 6 - 10 Juta | Honda | Tidak | Baik | Baik | Baik | 2 Surat |
| 29 | Honda Vario 125 Merah (2015) | 150.001 - 200.000 Km | 11 - 15 Juta | Honda | Tidak | Sangat Baik | Baik | Baik | 2 Surat |
| 30 | Honda Vario 125 Putih (2015) | 150.001 - 200.000 Km | 11 - 15 Juta | Honda | Tidak | Sangat Baik | Baik | Baik | 2 Surat |
| 31 | Honda Vario 150 Abu (2018) | 150.001 - 200.000 Km | 11 - 15 Juta | Honda | Tidak | Sangat Baik | Baik | Baik | 2 Surat |
| 32 | Honda Vario 150 Merah (2018) | 150.001 - 200.000 Km | 11 - 15 Juta | Honda | Tidak | Sangat Baik | Baik | Baik | 2 Surat |
| 33 | Yamaha Vega R Biru (2008) | 150.001 - 200.000 Km | Dibawah 5 Juta | Yamaha | Tidak | Sangat Baik | Cukup | Cukup | 1 Surat |
| 34 | Yamaha R15 Hitam (2019) | Dibawah 50.000 Km | Diatas 20 Juta | Yamaha | Tidak | Sangat Baik | Sangat Baik | Sangat Baik | Lengkap |
| 35 | Yamaha R15 Biru (2019) | 50.001 - 100.000 Km | Diatas 20 Juta | Yamaha | Tidak | Sangat Baik | Sangat Baik | Sangat Baik | Lengkap |
| 36 | Honda CBR 250RR Merah (2018) | 50.001 - 100.000 Km | Diatas 20 Juta | Honda | Tidak | Sangat Baik | Sangat Baik | Sangat Baik | Lengkap |
| 37 | Honda CBR 150R Merah (2021) | Dibawah 50.000 Km | Diatas 20 Juta | Honda | Tidak | Sangat Baik | Sangat Baik | Sangat Baik | Lengkap |
| 38 | Honda Scoopy F1 Merah (2019) | 50.001 - 100.000 Km | 16 - 20 Juta | Honda | Tidak | Sangat Baik | Sangat Baik | Sangat Baik | 2 Surat |
| 39 | Suzuki Smash FI Merah (2022) | Dibawah 50.000 Km | 6 - 10 Juta | Suzuki | Tidak | Sangat Baik | Sangat Baik | Sangat Baik | Lengkap |
| 40 | Suzuki NEX II Hitam (2021) | Dibawah 50.000 Km | 11 - 15 Juta | Suzuki | Tidak | Sangat Baik | Sangat Baik | Sangat Baik | Lengkap |
| 41 | Suzuki Satria F150 Biru (2019) | 50.001 - 100.000 Km | 11 - 15 Juta | Suzuki | Ada | Sangat Baik | Sangat Baik | Baik | 2 Surat |
| 42 | Suzuki Satria F150 Putih (2017) | 50.001 - 100.000 Km | 11 - 15 Juta | Suzuki | Tidak | Sangat Baik | Baik | Baik | 1 Surat |
| 43 | Kawasaki KLX 150 Hijau (2016) | 50.001 - 100.000 Km | Diatas 20 Juta | Kawasaki | Tidak | Sangat Baik | Baik | Baik | 1 Surat  107 |
| 44 | Kawasaki KLX 150 BF Hijau (2018) | 50.001 - 100.000 Km | Diatas 20 Juta | Kawasaki | Tidak | Sangat Baik | Baik | Baik | 2 Surat |
| 45 | Yamaha Z1 Biru (2021) | 50.001 - 100.000 Km | 11 - 15 Juta | Yamaha | Tidak | Sangat Baik | Baik | Sangat Baik | 2 Surat |
| 46 | Yamaha Z1 Merah (2021) | 50.001 - 100.000 Km | 11 - 15 Juta | Yamaha | Tidak | Sangat Baik | Cukup | Sangat Baik | 2 Surat |
| 47 | Yamaha Vixion Hitam (2010) | 150.001 - 200.000 Km | 11 - 15 Juta | Yamaha | Tidak | Sangat Baik | Baik | Baik | 2 Surat |
| 48 | Yamaha Vixion Merah (2010) | 150.001 - 200.000 Km | 11 - 15 Juta | Yamaha | Tidak | Cukup | Baik | Cukup | 2 Surat |
| 49 | Yamaha Vixion Hitam (2015) | 150.001 - 200.000 Km | 11 - 15 Juta | Yamaha | Tidak | Baik | Baik | Baik | 2 Surat |
| 50 | Yamaha Vixion Putih (2010) | 150.001 - 200.000 Km | 11 - 15 Juta | Yamaha | Tidak | Baik | Baik | Cukup | 1 Surat |
| 51 | Honda Supra X Putih (2006) | Diatas 200.000 Km | 6 - 10 Juta | Honda | Tidak | Baik | Baik | Cukup | 1 Surat |
| 52 | Yamaha Jupiter Z1 Merah (2010) | 150.001 - 200.000 Km | Dibawah 5 Juta | Yamaha | Tidak | Sangat Baik | Baik | Cukup | 1 Surat |
| 53 | Honda Supra X 125 Putih (2013) | 150.001 - 200.000 Km | Dibawah 5 Juta | Honda | Tidak | Sangat Baik | Baik | Baik | 1 Surat |
| 54 | Honda Scoopy Merah (2012) | 150.001 - 200.000 Km | 6 - 10 Juta | Honda | Tidak | Baik | Baik | Baik | Tidak Ada |
| 55 | Yamaha Vixion Putih (2008) | 50.001 - 100.000 Km | 6 - 10 Juta | Yamaha | Tidak | Baik | Baik | Cukup | Tidak Ada |
| 56 | Honda Megapro Primus Hitam (2008) | 150.001 - 200.000 Km | 11 - 15 Juta | Honda | Tidak | Baik | Baik | Cukup | 1 Surat |
| 57 | Yamaha Vixion Hitam (2011) | 150.001 - 200.000 Km | 6 - 10 Juta | Yamaha | Tidak | Baik | Baik | Baik | 1 Surat |
| 58 | Honda Beat Merah (2008) | 150.001 - 200.000 Km | Dibawah 5 Juta | Honda | Tidak | Cukup | Baik | Cukup | 2 Surat |
| 59 | Kawasaki Ninja 250 Fi Hijau (2018) | 50.001 - 100.000 Km | 16 - 20 Juta | Kawasaki | Tidak | Sangat Baik | Sangat Baik | Baik | Lengkap |
| 60 | Yamaha Aerox 155 Kuning (2018) | 50.001 - 100.000 Km | 16 - 20 Juta | Yamaha | Tidak | Sangat Baik | Sangat Baik | Baik | Lengkap |
| 61 | Yamaha Vixion Putih (2012) | 150.001 - 200.000 Km | 6 - 10 Juta | Yamaha | Tidak | Sangat Baik | Baik | Baik | 1 Surat |
| 62 | Honda Supra X 125 Merah (2012) | 150.001 - 200.000 Km | 6 - 10 Juta | Honda | Tidak | Sangat Baik | Baik | Baik | 2 Surat |
| 63 | Kawasaki Ninja R 150 Hijau (2010) | 150.001 - 200.000 Km | 16 - 20 Juta | Kawasaki | Tidak | Sangat Baik | Baik | Baik | Tidak Ada |

**Tabel 6 Transformasi Data Alternatif**

| **No** | **Alternatif** | **C1** | **C2** | **C3** | **C4** | **C5** | **C6** | **C7** | **C8** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | Yamaha Mio Merah (2011) | 4 | 1 | 1 | 1 | 3 | 2 | 2 | 2 |
| 2 | Yamaha Mio Hijau (2009) | 4 | 1 | 1 | 1 | 3 | 2 | 2 | 2 |
| 3 | Yamaha Mio Putih (2011) | 4 | 1 | 1 | 1 | 3 | 2 | 2 | 2 |
| 4 | Yamaha Mio Merah (2011) | 4 | 1 | 1 | 1 | 3 | 2 | 2 | 2 |
| 5 | Honda Beat Hitam (2012) | 3 | 2 | 4 | 1 | 3 | 2 | 2 | 2 |
| 6 | Honda Beat Merah (2012) | 3 | 2 | 4 | 1 | 3 | 2 | 2 | 2 |
| 7 | Honda Beat Putih (2012) | 4 | 2 | 4 | 1 | 3 | 2 | 2 | 2 |
| 8 | Honda Beat Pink (2010) | 3 | 2 | 4 | 1 | 3 | 2 | 2 | 2 |
| 9 | Honda Beat Merah (2010) | 3 | 1 | 4 | 1 | 3 | 2 | 2 | 3 |
| 10 | Honda Beat Hijau (2008) | 3 | 1 | 4 | 1 | 3 | 2 | 1 | 2 |
| 11 | Suzuki Spin 125SR Red (2012) | 3 | 1 | 2 | 1 | 3 | 2 | 2 | 2 |
| 12 | Yamaha Vega R Putih (2008) | 5 | 2 | 1 | 1 | 2 | 2 | 2 | 2 |
| 13 | Yamaha Vega R Merah (2008) | 5 | 2 | 1 | 1 | 2 | 2 | 1 | 2 |
| 14 | Yamaha Jupiter MX Red (2014) | 3 | 2 | 1 | 1 | 3 | 2 | 2 | 3 |
| 15 | Yamaha Jupiter MX Gold (2014) | 3 | 2 | 1 | 1 | 3 | 2 | 2 | 3 |
| 16 | Yamaha Jupiter MX Putih (2014) | 2 | 2 | 1 | 1 | 3 | 2 | 2 | 2 |
| 17 | Yamaha Jupiter Z Merah (2010) | 5 | 1 | 1 | 1 | 3 | 2 | 2 | 2 |
| 18 | Yamaha Jupiter Z Biru (2010) | 5 | 1 | 1 | 1 | 2 | 2 | 2 | 1 |
| 19 | Yamaha Jupiter Z Hitam (2010) | 4 | 1 | 1 | 1 | 3 | 2 | 2 | 1 |
| 20 | Yamaha Jupiter Z Merah (2009) | 5 | 1 | 1 | 1 | 3 | 2 | 2 | 1 |
| 21 | Honda CRF Hijau Stabilo (2020) | 1 | 5 | 4 | 1 | 3 | 3 | 3 | 4 |
| 22 | Honda CRF Merah (2019) | 2 | 5 | 4 | 1 | 3 | 3 | 2 | 4 |
| 23 | Yamaha NMAX Putih (2020) | 2 | 5 | 1 | 1 | 3 | 3 | 3 | 4 |
| 24 | Yamaha NMAX Merah (2019) | 2 | 5 | 1 | 1 | 3 | 2 | 3 | 4 |
| 25 | Yamaha NMAX Hitam (2023) | 2 | 5 | 1 | 1 | 3 | 3 | 3 | 4 |
| 26 | Honda Megapro Merah (2015) | 3 | 3 | 4 | 1 | 3 | 2 | 2 | 2 |
| 27 | Honda Megapro Hitam (2015) | 3 | 3 | 4 | 1 | 3 | 2 | 2 | 3 |
| 28 | Honda Megapro Biru (2012) | 4 | 2 | 4 | 1 | 2 | 2 | 2 | 3 |
| 29 | Honda Vario 125 Merah (2015) | 4 | 3 | 4 | 1 | 3 | 2 | 2 | 3 |
| 30 | Honda Vario 125 Putih (2015) | 3 | 3 | 4 | 1 | 3 | 2 | 2 | 3 |
| 31 | Honda Vario 150 Abu (2018) | 3 | 3 | 4 | 1 | 3 | 2 | 2 | 3 |
| 32 | Honda Vario 150 Merah (2018) | 3 | 3 | 4 | 1 | 3 | 2 | 2 | 3 |
| 33 | Yamaha Vega R Biru (2008) | 3 | 1 | 1 | 1 | 3 | 1 | 1 | 2 |
| 34 | Yamaha R15 Hitam (2019) | 1 | 5 | 1 | 1 | 3 | 3 | 3 | 4 |
| 35 | Yamaha R15 Biru (2019) | 2 | 5 | 1 | 1 | 3 | 3 | 3 | 4 |
| 36 | Honda CBR 250RR Red (2018) | 2 | 5 | 4 | 1 | 3 | 3 | 3 | 4 |
| 37 | Honda CBR 150R Merah (2021) | 1 | 5 | 4 | 1 | 3 | 3 | 3 | 4 |
| 38 | Honda Scoopy F1 Merah (2019) | 2 | 4 | 4 | 1 | 3 | 3 | 3 | 3 |
| 39 | Suzuki Smash FI Merah (2022) | 1 | 2 | 2 | 1 | 3 | 3 | 3 | 4 |
| 40 | Suzuki NEX II Hitam (2021) | 1 | 3 | 2 | 1 | 3 | 3 | 3 | 4 |
| 41 | Suzuki Satria F150 Biru (2019) | 2 | 3 | 2 | 2 | 3 | 3 | 2 | 3 |
| 42 | Suzuki Satria F150 Putih (2017) | 2 | 3 | 2 | 1 | 3 | 2 | 2 | 2 |
| 43 | Kawasaki KLX 150 Hijau (2016) | 2 | 5 | 3 | 1 | 3 | 2 | 2 | 2 |
| 44 | Kawasaki KLX 150 Hijau (2018) | 2 | 5 | 3 | 1 | 3 | 2 | 2 | 3 |
| 45 | Yamaha Z1 Biru (2021) | 2 | 3 | 1 | 1 | 3 | 2 | 3 | 3 |
| 46 | Yamaha Z1 Merah (2021) | 2 | 3 | 1 | 1 | 3 | 1 | 3 | 3 |
| 47 | Yamaha Vixion Hitam (2010) | 3 | 3 | 1 | 1 | 3 | 2 | 2 | 3 |
| 48 | Yamaha Vixion Merah (2010) | 4 | 3 | 1 | 1 | 1 | 2 | 1 | 3 |
| 49 | Yamaha Vixion Hitam (2015) | 3 | 3 | 1 | 1 | 2 | 2 | 2 | 3 |
| 50 | Yamaha Vixion Putih (2010) | 4 | 3 | 1 | 1 | 2 | 2 | 1 | 2 |
| 51 | Honda Supra X Putih (2006) | 5 | 2 | 4 | 1 | 2 | 2 | 1 | 2 |
| 52 | Yamaha Jupiter Z1 Merah (2010) | 3 | 1 | 1 | 1 | 3 | 2 | 1 | 2 |
| 53 | Honda Supra X 125 Putih (2013) | 3 | 1 | 4 | 1 | 3 | 2 | 2 | 2 |
| 54 | Honda Scoopy Merah (2012) | 3 | 2 | 4 | 1 | 2 | 2 | 2 | 1 |
| 55 | Yamaha Vixion Putih (2008) | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 |
| 56 | Honda Megapro Hitam (2008) | 4 | 3 | 4 | 1 | 2 | 2 | 1 | 2 |
| 57 | Yamaha Vixion Hitam (2011) | 3 | 2 | 1 | 1 | 2 | 2 | 2 | 2 |
| 58 | Honda Beat Merah (2008) | 3 | 1 | 4 | 1 | 1 | 2 | 1 | 3 |
| 59 | Kawasaki Ninja 250 Hijau (2018) | 2 | 4 | 3 | 1 | 3 | 3 | 2 | 4 |
| 60 | Yamaha Aerox 155 Kuning (2018) | 2 | 4 | 1 | 1 | 3 | 3 | 2 | 4 |
| 61 | Yamaha Vixion Putih (2012) | 4 | 2 | 1 | 1 | 3 | 2 | 2 | 2 |
| 62 | Honda Supra X 125 Merah (2012) | 3 | 2 | 4 | 1 | 3 | 2 | 2 | 3 |
| 63 | Kawasaki Ninja R 150 Hijau (2010) | 3 | 4 | 3 | 1 | 3 | 2 | 2 | 1 |

**PERHITUNGAN METODE COCOSO**

**Tabel 7 Matriks Ternomalisasi Terbobot**

| **Alternatif** | **C1** | **C2** | **C3** | **C4** | **C5** | **C6** | **C7** | **C8** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Yamaha Mio Merah (2011) | 0,25 | 1 | 0 | 0 | 1 | 0,5 | 0,5 | 0,33 |
| Yamaha Mio Hijau (2009) | 0,25 | 1 | 0 | 0 | 1 | 0,5 | 0,5 | 0,33 |
| Yamaha Mio Putih (2011) | 0,25 | 1 | 0 | 0 | 1 | 0,5 | 0,5 | 0,33 |
| Yamaha Mio Merah (2011) | 0,25 | 1 | 0 | 0 | 1 | 0,5 | 0,5 | 0,33 |
| Honda Beat Hitam (2012) | 0,5 | 0,75 | 1 | 0 | 1 | 0,5 | 0,5 | 0,33 |
| Honda Beat Merah (2012) | 0,5 | 0,75 | 1 | 0 | 1 | 0,5 | 0,5 | 0,33 |
| Honda Beat Putih (2012) | 0,25 | 0,75 | 1 | 0 | 1 | 0,5 | 0,5 | 0,33 |
| Honda Beat Pink (2010) | 0,5 | 0,75 | 1 | 0 | 1 | 0,5 | 0,5 | 0,33 |
| Honda Beat Merah (2010) | 0,5 | 1 | 1 | 0 | 1 | 0,5 | 0,5 | 0,67 |
| Honda Beat Hijau (2008) | 0,5 | 1 | 1 | 0 | 1 | 0,5 | 0 | 0,33 |
| Suzuki Spin 125SR Merah (2012) | 0,5 | 1 | 0,33 | 0 | 1 | 0,5 | 0,5 | 0,33 |
| Yamaha Vega R Putih (2008) | 0 | 0,75 | 0 | 0 | 0,5 | 0,5 | 0,5 | 0,33 |
| Yamaha Vega R Merah (2008) | 0 | 0,75 | 0 | 0 | 0,5 | 0,5 | 0 | 0,33 |
| Yamaha Jupiter MX Merah (2014) | 0,5 | 0,75 | 0 | 0 | 1 | 0,5 | 0,5 | 0,67 |
| Yamaha Jupiter MX Gold (2014) | 0,5 | 0,75 | 0 | 0 | 1 | 0,5 | 0,5 | 0,67 |
| Yamaha Jupiter MX Putih (2014) | 0,75 | 0,75 | 0 | 0 | 1 | 0,5 | 0,5 | 0,33 |
| Yamaha Jupiter Z Merah (2010) | 0 | 1 | 0 | 0 | 1 | 0,5 | 0,5 | 0,33 |
| Yamaha Jupiter Z Biru (2010) | 0 | 1 | 0 | 0 | 0,5 | 0,5 | 0,5 | 0 |
| Yamaha Jupiter Z Hitam (2010) | 0,25 | 1 | 0 | 0 | 1 | 0,5 | 0,5 | 0 |
| Yamaha Jupiter Z Merah (2009) | 0 | 1 | 0 | 0 | 1 | 0,5 | 0,5 | 0 |
| Honda CRF Hijau Stabilo (2020) | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 |
| Honda CRF Merah (2019) | 0,75 | 0 | 1 | 0 | 1 | 1 | 0,5 | 1 |
| Yamaha NMAX Putih (2020) | 0,75 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| Yamaha NMAX Merah (2019) | 0,75 | 0 | 0 | 0 | 1 | 0,5 | 1 | 1 |
| Yamaha NMAX Hitam (2023) | 0,75 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| Honda Megapro Merah (2015) | 0,5 | 0,5 | 1 | 0 | 1 | 0,5 | 0,5 | 0,33 |
| Honda Megapro Hitam (2015) | 0,5 | 0,5 | 1 | 0 | 1 | 0,5 | 0,5 | 0,67 |
| Honda Megapro Biru (2012) | 0,25 | 0,75 | 1 | 0 | 0,5 | 0,5 | 0,5 | 0,67 |
| Honda Vario 125 Merah (2015) | 0,25 | 0,5 | 1 | 0 | 1 | 0,5 | 0,5 | 0,67 |
| Honda Vario 125 Putih (2015) | 0,5 | 0,5 | 1 | 0 | 1 | 0,5 | 0,5 | 0,67 |
| Honda Vario 150 Abu (2018) | 0,5 | 0,5 | 1 | 0 | 1 | 0,5 | 0,5 | 0,67 |
| Honda Vario 150 Merah (2018) | 0,5 | 0,5 | 1 | 0 | 1 | 0,5 | 0,5 | 0,67 |
| Yamaha Vega R Biru (2008) | 0,5 | 1 | 0 | 0 | 1 | 0 | 0 | 0,33 |
| Yamaha R15 Hitam (2019) | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| Yamaha R15 Biru (2019) | 0,75 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| Honda CBR 250RR Merah (2018) | 0,75 | 0 | 1 | 0 | 1 | 1 | 1 | 1 |
| Honda CBR 150R Merah (2021) | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 |
| Honda Scoopy F1 Merah (2019) | 0,75 | 0,25 | 1 | 0 | 1 | 1 | 1 | 0,67 |
| Suzuki Smash FI Merah (2022) | 1 | 0,75 | 0,33 | 0 | 1 | 1 | 1 | 1 |
| Suzuki NEX II Hitam (2021) | 1 | 0,5 | 0,33 | 0 | 1 | 1 | 1 | 1 |
| Suzuki Satria F150 Biru (2019) | 0,75 | 0,5 | 0,33 | 1 | 1 | 1 | 0,5 | 0,67 |
| Suzuki Satria F150 Putih (2017) | 0,75 | 0,5 | 0,33 | 0 | 1 | 0,5 | 0,5 | 0,33 |
| Kawasaki KLX 150 Hijau (2016) | 0,75 | 0 | 0,67 | 0 | 1 | 0,5 | 0,5 | 0,33 |
| Kawasaki KLX 150 BF Hijau (2018) | 0,75 | 0 | 0,67 | 0 | 1 | 0,5 | 0,5 | 0,67 |
| Yamaha Z1 Biru (2021) | 0,75 | 0,5 | 0 | 0 | 1 | 0,5 | 1 | 0,67 |
| Yamaha Z1 Merah (2021) | 0,75 | 0,5 | 0 | 0 | 1 | 0 | 1 | 0,67 |
| Yamaha Vixion Hitam (2010) | 0,5 | 0,5 | 0 | 0 | 1 | 0,5 | 0,5 | 0,67 |
| Yamaha Vixion Merah (2010) | 0,25 | 0,5 | 0 | 0 | 0 | 0,5 | 0 | 0,67 |
| Yamaha Vixion Hitam (2015) | 0,5 | 0,5 | 0 | 0 | 0,5 | 0,5 | 0,5 | 0,67 |
| Yamaha Vixion Putih (2010) | 0,25 | 0,5 | 0 | 0 | 0,5 | 0,5 | 0 | 0,33 |
| Honda Supra X Putih (2006) | 0 | 0,75 | 1 | 0 | 0,5 | 0,5 | 0 | 0,33 |
| Yamaha Jupiter Z1 Merah (2010) | 0,5 | 1 | 0 | 0 | 1 | 0,5 | 0 | 0,33 |
| Honda Supra X 125 Putih (2013) | 0,5 | 1 | 1 | 0 | 1 | 0,5 | 0,5 | 0,33 |
| Honda Scoopy Merah (2012) | 0,5 | 0,75 | 1 | 0 | 0,5 | 0,5 | 0,5 | 0 |
| Yamaha Vixion Putih (2008) | 0,75 | 0,75 | 0 | 0 | 0,5 | 0,5 | 0 | 0 |
| Honda Megapro Primus Hitam (2008) | 0,25 | 0,5 | 1 | 0 | 0,5 | 0,5 | 0 | 0,33 |
| Yamaha Vixion Hitam (2011) | 0,5 | 0,75 | 0 | 0 | 0,5 | 0,5 | 0,5 | 0,33 |
| Honda Beat Merah (2008) | 0,5 | 1 | 1 | 0 | 0 | 0,5 | 0 | 0,67 |
| Kawasaki Ninja 250 Fi Hijau (2018) | 0,75 | 0,25 | 0,67 | 0 | 1 | 1 | 0,5 | 1 |
| Yamaha Aerox 155 Kuning (2018) | 0,75 | 0,25 | 0 | 0 | 1 | 1 | 0,5 | 1 |
| Yamaha Vixion Putih (2012) | 0,25 | 0,75 | 0 | 0 | 1 | 0,5 | 0,5 | 0,33 |
| Honda Supra X 125 Merah (2012) | 0,5 | 0,75 | 1 | 0 | 1 | 0,5 | 0,5 | 0,67 |
| Kawasaki Ninja R 150 Hijau (2010) | 0,5 | 0,25 | 0,67 | 0 | 1 | 0,5 | 0,5 | 0 |

**Tabel 8 Nilai Si dan Pi**

| **Alternatif** | **Si** | **Pi** |
| --- | --- | --- |
| Yamaha Mio Merah (2011) | 0,542 | 5,506 |
| Yamaha Mio Hijau (2009) | 0,542 | 5,506 |
| Yamaha Mio Putih (2011) | 0,542 | 5,506 |
| Yamaha Mio Merah (2011) | 0,542 | 5,506 |
| Honda Beat Hitam (2012) | 0,639 | 6,526 |
| Honda Beat Merah (2012) | 0,639 | 6,526 |
| Honda Beat Putih (2012) | 0,614 | 6,463 |
| Honda Beat Pink (2010) | 0,639 | 6,526 |
| Honda Beat Merah (2010) | 0,723 | 6,656 |
| Honda Beat Hijau (2008) | 0,597 | 5,673 |
| Suzuki Spin 125SR Merah (2012) | 0,603 | 6,454 |
| Yamaha Vega R Putih (2008) | 0,404 | 4,494 |
| Yamaha Vega R Merah (2008) | 0,324 | 3,599 |
| Yamaha Jupiter MX Merah (2014) | 0,576 | 5,613 |
| Yamaha Jupiter MX Gold (2014) | 0,576 | 5,613 |
| Yamaha Jupiter MX Putih (2014) | 0,554 | 5,565 |
| Yamaha Jupiter Z Merah (2010) | 0,517 | 4,635 |
| Yamaha Jupiter Z Biru (2010) | 0,395 | 3,679 |
| Yamaha Jupiter Z Hitam (2010) | 0,495 | 4,648 |
| Yamaha Jupiter Z Merah (2009) | 0,470 | 3,778 |
| Honda CRF Hijau Stabilo (2020) | 0,840 | 6,000 |
| Honda CRF Merah (2019) | 0,735 | 5,867 |
| Yamaha NMAX Putih (2020) | 0,705 | 4,972 |
| Yamaha NMAX Merah (2019) | 0,615 | 4,854 |
| Yamaha NMAX Hitam (2023) | 0,705 | 4,972 |
| Honda Megapro Merah (2015) | 0,602 | 6,469 |
| Honda Megapro Hitam (2015) | 0,648 | 6,557 |
| Honda Megapro Biru (2012) | 0,586 | 6,452 |
| Honda Vario 125 Merah (2015) | 0,623 | 6,494 |
| Honda Vario 125 Putih (2015) | 0,648 | 6,557 |
| Honda Vario 150 Abu (2018) | 0,648 | 6,557 |
| Honda Vario 150 Merah (2018) | 0,648 | 6,557 |
| Yamaha Vega R Biru (2008) | 0,397 | 3,790 |
| Yamaha R15 Hitam (2019) | 0,730 | 5,000 |
| Yamaha R15 Biru (2019) | 0,705 | 4,972 |
| Honda CBR 250RR Merah (2018) | 0,815 | 5,972 |
| Honda CBR 150R Merah (2021) | 0,840 | 6,000 |
| Honda Scoopy F1 Merah (2019) | 0,806 | 6,729 |
| Suzuki Smash FI Merah (2022) | 0,879 | 6,844 |
| Suzuki NEX II Hitam (2021) | 0,842 | 6,787 |
| Suzuki Satria F150 Biru (2019) | 0,700 | 7,599 |
| Suzuki Satria F150 Putih (2017) | 0,553 | 6,394 |
| Kawasaki KLX 150 Hijau (2016) | 0,515 | 5,563 |
| Kawasaki KLX 150 BF Hijau (2018) | 0,562 | 5,651 |
| Yamaha Z1 Biru (2021) | 0,643 | 5,700 |
| Yamaha Z1 Merah (2021) | 0,553 | 4,818 |
| Yamaha Vixion Hitam (2010) | 0,538 | 5,557 |
| Yamaha Vixion Merah (2010) | 0,283 | 3,599 |
| Yamaha Vixion Hitam (2015) | 0,463 | 5,458 |
| Yamaha Vixion Putih (2010) | 0,312 | 4,413 |
| Honda Supra X Putih (2006) | 0,434 | 4,599 |
| Yamaha Jupiter Z1 Merah (2010) | 0,487 | 4,673 |
| Honda Supra X 125 Putih (2013) | 0,677 | 6,568 |
| Honda Scoopy Merah (2012) | 0,518 | 5,570 |
| Yamaha Vixion Putih (2008) | 0,353 | 3,713 |
| Honda Megapro Primus Hitam (2008) | 0,422 | 5,413 |
| Yamaha Vixion Hitam (2011) | 0,454 | 5,427 |
| Honda Beat Merah (2008) | 0,493 | 4,761 |
| Kawasaki Ninja 250 Fi Hijau (2018) | 0,736 | 6,635 |
| Yamaha Aerox 155 Kuning (2018) | 0,663 | 5,679 |
| Yamaha Vixion Putih (2012) | 0,504 | 5,463 |
| Honda Supra X 125 Merah (2012) | 0,686 | 6,613 |
| Kawasaki Ninja R 150 Hijau (2010) | 0,481 | 5,479 |

**Tabel 9 Nilai Kia Kib dan Kic**

| **Alternatif** | **Kia** | **Kib** | **Kic** |
| --- | --- | --- | --- |
| Yamaha Mio Merah (2011) | 0,0155 | 3,4415 | 0,7133 |
| Yamaha Mio Hijau (2009) | 0,0155 | 3,4415 | 0,7133 |
| Yamaha Mio Putih (2011) | 0,0155 | 3,4415 | 0,7133 |
| Yamaha Mio Merah (2011) | 0,0155 | 3,4415 | 0,7133 |
| Honda Beat Hitam (2012) | 0,0184 | 4,0691 | 0,8451 |
| Honda Beat Merah (2012) | 0,0184 | 4,0691 | 0,8451 |
| Honda Beat Putih (2012) | 0,0182 | 3,9635 | 0,8348 |
| Honda Beat Pink (2010) | 0,0184 | 4,0691 | 0,8451 |
| Honda Beat Merah (2010) | 0,0190 | 4,4021 | 0,8704 |
| Honda Beat Hijau (2008) | 0,0161 | 3,6821 | 0,7395 |
| Suzuki Spin 125SR Merah (2012) | 0,0181 | 3,9227 | 0,8325 |
| Yamaha Vega R Putih (2008) | 0,0126 | 2,6751 | 0,5778 |
| Yamaha Vega R Merah (2008) | 0,0101 | 2,1441 | 0,4628 |
| Yamaha Jupiter MX Merah (2014) | 0,0159 | 3,5920 | 0,7300 |
| Yamaha Jupiter MX Gold (2014) | 0,0159 | 3,5920 | 0,7300 |
| Yamaha Jupiter MX Putih (2014) | 0,0157 | 3,5020 | 0,7217 |
| Yamaha Jupiter Z Merah (2010) | 0,0132 | 3,1114 | 0,6077 |
| Yamaha Jupiter Z Biru (2010) | 0,0105 | 2,4163 | 0,4805 |
| Yamaha Jupiter Z Hitam (2010) | 0,0132 | 3,0385 | 0,6067 |
| Yamaha Jupiter Z Merah (2009) | 0,0109 | 2,7084 | 0,5010 |
| Honda CRF Hijau Stabilo (2020) | 0,0176 | 4,6318 | 0,8068 |
| Honda CRF Merah (2019) | 0,0170 | 4,2241 | 0,7787 |
| Yamaha NMAX Putih (2020) | 0,0146 | 3,8696 | 0,6696 |
| Yamaha NMAX Merah (2019) | 0,0141 | 3,5193 | 0,6451 |
| Yamaha NMAX Hitam (2023) | 0,0146 | 3,8696 | 0,6696 |
| Honda Megapro Merah (2015) | 0,0182 | 3,9210 | 0,8340 |
| Honda Megapro Hitam (2015) | 0,0185 | 4,1100 | 0,8499 |
| Honda Megapro Biru (2012) | 0,0181 | 3,8603 | 0,8301 |
| Honda Vario 125 Merah (2015) | 0,0183 | 4,0044 | 0,8395 |
| Honda Vario 125 Putih (2015) | 0,0185 | 4,1100 | 0,8499 |
| Honda Vario 150 Abu (2018) | 0,0185 | 4,1100 | 0,8499 |
| Honda Vario 150 Merah (2018) | 0,0185 | 4,1100 | 0,8499 |
| Yamaha Vega R Biru (2008) | 0,0108 | 2,4532 | 0,4939 |
| Yamaha R15 Hitam (2019) | 0,0147 | 3,9657 | 0,6759 |
| Yamaha R15 Biru (2019) | 0,0146 | 3,8696 | 0,6696 |
| Honda CBR 250RR Merah (2018) | 0,0174 | 4,5356 | 0,8005 |
| Honda CBR 150R Merah (2021) | 0,0176 | 4,6318 | 0,8068 |
| Honda Scoopy F1 Merah (2019) | 0,0194 | 4,7136 | 0,8887 |
| Suzuki Smash FI Merah (2022) | 0,0198 | 5,0045 | 0,9110 |
| Suzuki NEX II Hitam (2021) | 0,0196 | 4,8564 | 0,8999 |
| Suzuki Satria F150 Biru (2019) | 0,0213 | 4,5819 | 0,9789 |
| Suzuki Satria F150 Putih (2017) | 0,0179 | 3,7295 | 0,8195 |
| Kawasaki KLX 150 Hijau (2016) | 0,0156 | 3,3633 | 0,7169 |
| Kawasaki KLX 150 BF Hijau (2018) | 0,0160 | 3,5523 | 0,7327 |
| Yamaha Z1 Biru (2021) | 0,0163 | 3,8544 | 0,7483 |
| Yamaha Z1 Merah (2021) | 0,0138 | 3,2915 | 0,6335 |
| Yamaha Vixion Hitam (2010) | 0,0157 | 3,4439 | 0,7189 |
| Yamaha Vixion Merah (2010) | 0,0100 | 2,0000 | 0,4580 |
| Yamaha Vixion Hitam (2015) | 0,0152 | 3,1518 | 0,6984 |
| Yamaha Vixion Putih (2010) | 0,0121 | 2,3262 | 0,5573 |
| Honda Supra X Putih (2006) | 0,0129 | 2,8102 | 0,5937 |
| Yamaha Jupiter Z1 Merah (2010) | 0,0133 | 3,0161 | 0,6086 |
| Honda Supra X 125 Putih (2013) | 0,0186 | 4,2132 | 0,8545 |
| Honda Scoopy Merah (2012) | 0,0156 | 3,3740 | 0,7180 |
| Yamaha Vixion Putih (2008) | 0,0104 | 2,2758 | 0,4796 |
| Honda Megapro Primus Hitam (2008) | 0,0150 | 2,9923 | 0,6882 |
| Yamaha Vixion Hitam (2011) | 0,0151 | 3,1109 | 0,6937 |
| Honda Beat Merah (2008) | 0,0135 | 3,0639 | 0,6197 |
| Kawasaki Ninja 250 Fi Hijau (2018) | 0,0189 | 4,4406 | 0,8694 |
| Yamaha Aerox 155 Kuning (2018) | 0,0163 | 3,9161 | 0,7480 |
| Yamaha Vixion Putih (2012) | 0,0153 | 3,2974 | 0,7039 |
| Honda Supra X 125 Merah (2012) | 0,0188 | 4,2581 | 0,8609 |
| Kawasaki Ninja R 150 Hijau (2010) | 0,0153 | 3,2195 | 0,7030 |

**Tabel 10 Nilai Ki**

| **Alternatif** | **Ki** | **Peringkat** |
| --- | --- | --- |
| Suzuki Smash FI Merah (2022) | 1,72673 | 38 |
| Suzuki Satria F150 Biru (2019) | 1,72673 | 38 |
| Suzuki NEX II Hitam (2021) | 1,72673 | 38 |
| Honda Scoopy F1 Merah (2019) | 1,72673 | 38 |
| Honda CBR 150R Merah (2021) | 2,04277 | 17 |
| Honda CRF Hijau Stabilo (2020) | 2,04277 | 17 |
| Kawasaki Ninja 250 Fi Hijau (2018) | 1,99735 | 21 |
| Honda CBR 250RR Merah (2018) | 2,04277 | 17 |
| Honda Supra X 125 Merah (2012) | 2,18107 | 9 |
| Honda Supra X 125 Putih (2013) | 1,83194 | 32 |
| Honda Vario 150 Abu (2018) | 1,98088 | 23 |
| Honda Vario 150 Merah (2018) | 1,35744 | 56 |
| Honda CRF Merah (2019) | 1,08778 | 62 |
| Honda Megapro Hitam (2015) | 1,79274 | 33 |
| Honda Vario 125 Putih (2015) | 1,79274 | 33 |
| Honda Beat Hitam (2012) | 1,75437 | 36 |
| Honda Beat Merah (2012) | 1,5366 | 51 |
| Honda Vario 125 Merah (2015) | 1,19902 | 60 |
| Honda Beat Putih (2012) | 1,50936 | 53 |
| Honda Beat Merah (2010) | 1,31904 | 57 |
| Honda Megapro Biru (2012) | 2,22216 | 5 |
| Honda Megapro Merah (2015) | 2,05537 | 16 |
| Suzuki Spin 125SR Merah (2012) | 1,85348 | 29 |
| Yamaha Aerox 155 Kuning (2018) | 1,71 | 42 |
| Yamaha Z1 Biru (2021) | 1,85348 | 29 |
| Yamaha R15 Hitam (2019) | 1,98129 | 22 |
| Suzuki Satria F150 Putih (2017) | 2,06084 | 12 |
| Yamaha NMAX Hitam (2023) | 1,95649 | 24 |
| Yamaha NMAX Putih (2020) | 2,01543 | 20 |
| Yamaha R15 Biru (2019) | 2,06084 | 12 |
| Honda Beat Pink (2010) | 2,06084 | 12 |
| Kawasaki KLX 150 BF Hijau (2018) | 2,06084 | 12 |
| Yamaha Jupiter MX Merah (2014) | 1,22127 | 58 |
| Yamaha Jupiter MX Gold (2014) | 1,89254 | 28 |
| Yamaha Jupiter MX Putih (2014) | 1,85348 | 29 |
| Yamaha NMAX Merah (2019) | 2,18309 | 8 |
| Honda Scoopy Merah (2012) | 2,22216 | 5 |
| Yamaha Mio Merah (2011) | 2,30675 | 4 |
| Yamaha Mio Putih (2011) | 2,42733 | 1 |
| Yamaha Mio Merah (2011) | 2,36612 | 2 |
| Kawasaki KLX 150 Hijau (2016) | 2,318 | 3 |
| Yamaha Vixion Putih (2012) | 1,90156 | 26 |
| Yamaha Z1 Merah (2021) | 1,70048 | 44 |
| Honda Beat Hijau (2008) | 1,78002 | 35 |
| Yamaha Vixion Hitam (2015) | 1,90056 | 27 |
| Yamaha Vixion Hitam (2011) | 1,61938 | 47 |
| Yamaha Vixion Hitam (2010) | 1,73131 | 37 |
| Yamaha Mio Hijau (2009) | 1,03172 | 63 |
| Kawasaki Ninja R 150 Hijau (2010) | 1,61082 | 48 |
| Honda Beat Merah (2008) | 1,21581 | 59 |
| Honda Megapro Primus Hitam (2008) | 1,41733 | 55 |
| Yamaha Jupiter Z Merah (2010) | 1,50243 | 54 |
| Yamaha Jupiter Z Hitam (2010) | 2,10163 | 11 |
| Yamaha Jupiter Z1 Merah (2010) | 1,70508 | 43 |
| Honda Supra X Putih (2006) | 1,14703 | 61 |
| Yamaha Vega R Putih (2008) | 1,54554 | 50 |
| Yamaha Jupiter Z Merah (2009) | 1,59272 | 49 |
| Yamaha Vixion Putih (2010) | 1,52719 | 52 |
| Yamaha Jupiter Z Biru (2010) | 2,1945 | 7 |
| Yamaha Vega R Biru (2008) | 1,92285 | 25 |
| Yamaha Vixion Putih (2008) | 1,66781 | 45 |
| Yamaha Vega R Merah (2008) | 2,12225 | 10 |
| Yamaha Vixion Merah (2010) | 1,63865 | 46 |

**PERHITUNGAN SAW**

**Tabel 11 Matriks Normalisasi SAW**

| **Alternatif** | **C1** | **C2** | **C3** | **C4** | **C5** | **C6** | **C7** | **C8** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Yamaha Mio Merah (2011) | 0,25 | 1 | 0,25 | 0,5 | 1 | 0,67 | 0,67 | 0,5 |
| Yamaha Mio Hijau (2009) | 0,25 | 1 | 0,25 | 0,5 | 1 | 0,67 | 0,67 | 0,5 |
| Yamaha Mio Putih (2011) | 0,25 | 1 | 0,25 | 0,5 | 1 | 0,67 | 0,67 | 0,5 |
| Yamaha Mio Merah (2011) | 0,25 | 1 | 0,25 | 0,5 | 1 | 0,67 | 0,67 | 0,5 |
| Honda Beat Hitam (2012) | 0,33 | 0,5 | 1 | 0,5 | 1 | 0,67 | 0,67 | 0,5 |
| Honda Beat Merah (2012) | 0,33 | 0,5 | 1 | 0,5 | 1 | 0,67 | 0,67 | 0,5 |
| Honda Beat Putih (2012) | 0,25 | 0,5 | 1 | 0,5 | 1 | 0,67 | 0,67 | 0,5 |
| Honda Beat Pink (2010) | 0,33 | 0,5 | 1 | 0,5 | 1 | 0,67 | 0,67 | 0,5 |
| Honda Beat Merah (2010) | 0,33 | 1 | 1 | 0,5 | 1 | 0,67 | 0,67 | 0,75 |
| Honda Beat Hijau (2008) | 0,33 | 1 | 1 | 0,5 | 1 | 0,67 | 0,33 | 0,5 |
| Suzuki Spin 125SR Merah (2012) | 0,33 | 1 | 0,5 | 0,5 | 1 | 0,67 | 0,67 | 0,5 |
| Yamaha Vega R Putih (2008) | 0,2 | 0,5 | 0,25 | 0,5 | 0,67 | 0,67 | 0,67 | 0,5 |
| Yamaha Vega R Merah (2008) | 0,2 | 0,5 | 0,25 | 0,5 | 0,67 | 0,67 | 0,33 | 0,5 |
| Yamaha Jupiter MX Merah (2014) | 0,33 | 0,5 | 0,25 | 0,5 | 1 | 0,67 | 0,67 | 0,75 |
| Yamaha Jupiter MX Gold (2014) | 0,33 | 0,5 | 0,25 | 0,5 | 1 | 0,67 | 0,67 | 0,75 |
| Yamaha Jupiter MX Putih (2014) | 0,5 | 0,5 | 0,25 | 0,5 | 1 | 0,67 | 0,67 | 0,5 |
| Yamaha Jupiter Z Merah (2010) | 0,2 | 1 | 0,25 | 0,5 | 1 | 0,67 | 0,67 | 0,5 |
| Yamaha Jupiter Z Biru (2010) | 0,2 | 1 | 0,25 | 0,5 | 0,67 | 0,67 | 0,67 | 0,25 |
| Yamaha Jupiter Z Hitam (2010) | 0,25 | 1 | 0,25 | 0,5 | 1 | 0,67 | 0,67 | 0,25 |
| Yamaha Jupiter Z Merah (2009) | 0,2 | 1 | 0,25 | 0,5 | 1 | 0,67 | 0,67 | 0,25 |
| Honda CRF Hijau Stabilo (2020) | 1 | 0,2 | 1 | 0,5 | 1 | 1 | 1 | 1 |
| Honda CRF Merah (2019) | 0,5 | 0,2 | 1 | 0,5 | 1 | 1 | 0,67 | 1 |
| Yamaha NMAX Putih (2020) | 0,5 | 0,2 | 0,25 | 0,5 | 1 | 1 | 1 | 1 |
| Yamaha NMAX Merah (2019) | 0,5 | 0,2 | 0,25 | 0,5 | 1 | 0,67 | 1 | 1 |
| Yamaha NMAX Hitam (2023) | 0,5 | 0,2 | 0,25 | 0,5 | 1 | 1 | 1 | 1 |
| Honda Megapro Merah (2015) | 0,33 | 0,33 | 1 | 0,5 | 1 | 0,67 | 0,67 | 0,5 |
| Honda Megapro Hitam (2015) | 0,33 | 0,33 | 1 | 0,5 | 1 | 0,67 | 0,67 | 0,75 |
| Honda Megapro Biru (2012) | 0,25 | 0,5 | 1 | 0,5 | 0,67 | 0,67 | 0,67 | 0,75 |
| Honda Vario 125 Merah (2015) | 0,25 | 0,33 | 1 | 0,5 | 1 | 0,67 | 0,67 | 0,75 |
| Honda Vario 125 Putih (2015) | 0,33 | 0,33 | 1 | 0,5 | 1 | 0,67 | 0,67 | 0,75 |
| Honda Vario 150 Abu (2018) | 0,33 | 0,33 | 1 | 0,5 | 1 | 0,67 | 0,67 | 0,75 |
| Honda Vario 150 Merah (2018) | 0,33 | 0,33 | 1 | 0,5 | 1 | 0,67 | 0,67 | 0,75 |
| Yamaha Vega R Biru (2008) | 0,33 | 1 | 0,25 | 0,5 | 1 | 0,33 | 0,33 | 0,5 |
| Yamaha R15 Hitam (2019) | 1 | 0,2 | 0,25 | 0,5 | 1 | 1 | 1 | 1 |
| Yamaha R15 Biru (2019) | 0,5 | 0,2 | 0,25 | 0,5 | 1 | 1 | 1 | 1 |
| Honda CBR 250RR Merah (2018) | 0,5 | 0,2 | 1 | 0,5 | 1 | 1 | 1 | 1 |
| Honda CBR 150R Merah (2021) | 1 | 0,2 | 1 | 0,5 | 1 | 1 | 1 | 1 |
| Honda Scoopy F1 Merah (2019) | 0,5 | 0,25 | 1 | 0,5 | 1 | 1 | 1 | 0,75 |
| Suzuki Smash FI Merah (2022) | 1 | 0,5 | 0,5 | 0,5 | 1 | 1 | 1 | 1 |
| Suzuki NEX II Hitam (2021) | 1 | 0,333 | 0,5 | 0,5 | 1 | 1 | 1 | 1 |
| Suzuki Satria F150 Biru (2019) | 0,5 | 0,333 | 0,5 | 1 | 1 | 1 | 0,67 | 0,75 |
| Suzuki Satria F150 Putih (2017) | 0,5 | 0,333 | 0,5 | 0,5 | 1 | 0,67 | 0,67 | 0,5 |
| Kawasaki KLX 150 Hijau (2016) | 0,5 | 0,2 | 0,75 | 0,5 | 1 | 0,67 | 0,67 | 0,5 |
| Kawasaki KLX 150 BF Hijau (2018) | 0,5 | 0,2 | 0,75 | 0,5 | 1 | 0,67 | 0,67 | 0,75 |
| Yamaha Z1 Biru (2021) | 0,5 | 0,33 | 0,25 | 0,5 | 1 | 0,67 | 1 | 0,75 |
| Yamaha Z1 Merah (2021) | 0,5 | 0,33 | 0,25 | 0,5 | 1 | 0,33 | 1 | 0,75 |
| Yamaha Vixion Hitam (2010) | 0,33 | 0,33 | 0,25 | 0,5 | 1 | 0,67 | 0,67 | 0,75 |
| Yamaha Vixion Merah (2010) | 0,25 | 0,33 | 0,25 | 0,5 | 0,333 | 0,67 | 0,33 | 0,75 |
| Yamaha Vixion Hitam (2015) | 0,33 | 0,33 | 0,25 | 0,5 | 0,67 | 0,67 | 0,67 | 0,75 |
| Yamaha Vixion Putih (2010) | 0,25 | 0,33 | 0,25 | 0,5 | 0,67 | 0,67 | 0,33 | 0,5 |
| Honda Supra X Putih (2006) | 0,2 | 0,5 | 1 | 0,5 | 0,67 | 0,67 | 0,33 | 0,5 |
| Yamaha Jupiter Z1 Merah (2010) | 0,33 | 1 | 0,25 | 0,5 | 1 | 0,67 | 0,33 | 0,5 |
| Honda Supra X 125 Putih (2013) | 0,33 | 1 | 1 | 0,5 | 1 | 0,67 | 0,67 | 0,5 |
| Honda Scoopy Merah (2012) | 0,33 | 0,5 | 1 | 0,5 | 0,67 | 0,67 | 0,67 | 0,25 |
| Yamaha Vixion Putih (2008) | 0,5 | 0,5 | 0,25 | 0,5 | 0,67 | 0,67 | 0,33 | 0,25 |
| Honda Megapro Primus Hitam (2008) | 0,25 | 0,33 | 1 | 0,5 | 0,67 | 0,67 | 0,33 | 0,5 |
| Yamaha Vixion Hitam (2011) | 0,33 | 0,5 | 0,25 | 0,5 | 0,67 | 0,67 | 0,67 | 0,5 |
| Honda Beat Merah (2008) | 0,33 | 1 | 1 | 0,5 | 0,33 | 0,67 | 0,33 | 0,75 |
| Kawasaki Ninja 250 Fi Hijau (2018) | 0,5 | 0,25 | 0,75 | 0,5 | 1 | 1 | 0,67 | 1 |
| Yamaha Aerox 155 Kuning (2018) | 0,5 | 0,25 | 0,25 | 0,5 | 1 | 1 | 0,67 | 1 |
| Yamaha Vixion Putih (2012) | 0,25 | 0,5 | 0,25 | 0,5 | 1 | 0,67 | 0,67 | 0,5 |
| Honda Supra X 125 Merah (2012) | 0,33 | 0,5 | 1 | 0,5 | 1 | 0,67 | 0,67 | 0,75 |
| Kawasaki Ninja R 150 Hijau (2010) | 0,33 | 0,25 | 0,75 | 0,5 | 1 | 0,67 | 0,67 | 0,25 |

**Tabel 12 Nilai Bobot Preferensi**

| **Alternatif** | **Vi** | **Peringkat** |
| --- | --- | --- |
| Yamaha Mio Merah (2011) | 0,65417 | 31 |
| Yamaha Mio Hijau (2009) | 0,65417 | 31 |
| Yamaha Mio Putih (2011) | 0,65417 | 31 |
| Yamaha Mio Merah (2011) | 0,65417 | 31 |
| Honda Beat Hitam (2012) | 0,67 | 26 |
| Honda Beat Merah (2012) | 0,67 | 26 |
| Honda Beat Putih (2012) | 0,66167 | 30 |
| Honda Beat Pink (2010) | 0,67 | 26 |
| Honda Beat Merah (2010) | 0,78 | 8 |
| Honda Beat Hijau (2008) | 0,69167 | 18 |
| Suzuki Spin 125SR Merah (2012) | 0,69 | 19 |
| Yamaha Vega R Putih (2008) | 0,52417 | 59 |
| Yamaha Vega R Merah (2008) | 0,47083 | 60 |
| Yamaha Jupiter MX Merah (2014) | 0,6225 | 40 |
| Yamaha Jupiter MX Gold (2014) | 0,6225 | 40 |
| Yamaha Jupiter MX Putih (2014) | 0,60417 | 48 |
| Yamaha Jupiter Z Merah (2010) | 0,64917 | 35 |
| Yamaha Jupiter Z Biru (2010) | 0,56417 | 53 |
| Yamaha Jupiter Z Hitam (2010) | 0,61917 | 42 |
| Yamaha Jupiter Z Merah (2009) | 0,61417 | 44 |
| Honda CRF Hijau Stabilo (2020) | 0,875 | 1 |
| Honda CRF Merah (2019) | 0,77167 | 9 |
| Yamaha NMAX Putih (2020) | 0,7425 | 12 |
| Yamaha NMAX Merah (2019) | 0,6825 | 20 |
| Yamaha NMAX Hitam (2023) | 0,7425 | 12 |
| Honda Megapro Merah (2015) | 0,645 | 38 |
| Honda Megapro Hitam (2015) | 0,68 | 21 |
| Honda Megapro Biru (2012) | 0,64667 | 37 |
| Honda Vario 125 Merah (2015) | 0,67167 | 25 |
| Honda Vario 125 Putih (2015) | 0,68 | 21 |
| Honda Vario 150 Abu (2018) | 0,68 | 21 |
| Honda Vario 150 Merah (2018) | 0,68 | 21 |
| Yamaha Vega R Biru (2008) | 0,54917 | 55 |
| Yamaha R15 Hitam (2019) | 0,7925 | 7 |
| Yamaha R15 Biru (2019) | 0,7425 | 12 |
| Honda CBR 250RR Merah (2018) | 0,825 | 5 |
| Honda CBR 150R Merah (2021) | 0,875 | 1 |
| Honda Scoopy F1 Merah (2019) | 0,7975 | 6 |
| Suzuki Smash FI Merah (2022) | 0,865 | 3 |
| Suzuki NEX II Hitam (2021) | 0,84 | 4 |
| Suzuki Satria F150 Biru (2019) | 0,70667 | 15 |
| Suzuki Satria F150 Putih (2017) | 0,60667 | 47 |
| Kawasaki KLX 150 Hijau (2016) | 0,61417 | 43 |
| Kawasaki KLX 150 BF Hijau (2018) | 0,64917 | 35 |
| Yamaha Z1 Biru (2021) | 0,6675 | 29 |
| Yamaha Z1 Merah (2021) | 0,6075 | 46 |
| Yamaha Vixion Hitam (2010) | 0,5975 | 49 |
| Yamaha Vixion Merah (2010) | 0,43583 | 63 |
| Yamaha Vixion Hitam (2015) | 0,5475 | 56 |
| Yamaha Vixion Putih (2010) | 0,45083 | 62 |
| Honda Supra X Putih (2006) | 0,55333 | 54 |
| Yamaha Jupiter Z1 Merah (2010) | 0,60917 | 45 |
| Honda Supra X 125 Putih (2013) | 0,745 | 11 |
| Honda Scoopy Merah (2012) | 0,585 | 50 |
| Yamaha Vixion Putih (2008) | 0,46583 | 61 |
| Honda Megapro Primus Hitam (2008) | 0,53333 | 58 |
| Yamaha Vixion Hitam (2011) | 0,5375 | 57 |
| Honda Beat Merah (2008) | 0,62667 | 39 |
| Kawasaki Ninja 250 Fi Hijau (2018) | 0,75167 | 10 |
| Yamaha Aerox 155 Kuning (2018) | 0,69667 | 17 |
| Yamaha Vixion Putih (2012) | 0,57917 | 51 |
| Honda Supra X 125 Merah (2012) | 0,705 | 16 |
| Kawasaki Ninja R 150 Hijau (2010) | 0,57 | 52 |