Kriteria

|  |  |
| --- | --- |
| Kriteria | Keterangan |
| C1 | Seleksi Pekerjaaan |
| C2 | Seleksi Penghasilan |
| C3 | Seleksi jumlah tanggungan |
| C4 | Seleksi kondisi rumah |
| C5 | Seleksi luas bngunan |

Bobot

|  |  |
| --- | --- |
| Sangat rendah (Sr) | 1 |
| Rendah (r) | 2 |
| Cukup (c) | 3 |
| Tinggi (t) | 4 |
| Sangat tinggi (t) | 5 |

C1 Rating pekerjaan

|  |  |
| --- | --- |
| C1 | Nilai |
| C1 Petani | 5 |
| C1 BURUH | 4 |
| C1 WIRASWASTA | 3 |
| C1 PENSIUNAN | 2 |
| C1 PNS | 1 |

C2 Rating seleksi penghasilan

|  |  |
| --- | --- |
| C2 | Nilai |
| C2 <=500.000 | 5 |
| C2 =500.000 – 1.000.000 | 4 |
| C2 = 1.000.000 – 2.000.000 | 3 |
| C2 = 2.000.000 – 2.500.000 | 2 |
| C2 >= 2.500.000 | 1 |

C3 Rating seleksi Tanggungan

|  |  |
| --- | --- |
| C3 | Nilai |
| C3 <= 5 | 5 |
| C3 = 4 | 4 |
| C3 = 3 | 3 |
| C3 = 2 | 2 |
| C3 >= 1 | 1 |

C4 Rating seleksi Kondisi Rumah

|  |  |
| --- | --- |
| C4 | Nilai |
| C4 SANGAT SEDERHANA | 5 |
| C4 SEDERHANA | 4 |
| C4 CUKUP | 3 |
| C4 SEDANG | 2 |
| C4 KAYA | 1 |

C5 Rating Seleksi luas bangunan

|  |  |
| --- | --- |
| C5 | Nilai |
| C5 <= 100m2 | 5 |
| C5 = 100-120m2 | 4 |
| C5 = 120-150m2 | 3 |
| C5 = 150-180m2 | 2 |
| C5 > 180m2 | 1 |

Bobot tiap Kriteria ( w )

|  |  |
| --- | --- |
| Kriteria | Keterangan |
| C1 = Seleksi pekerjaan | 5 |
| C2 = Seleksi penghasilan | 4 |
| C3 = seleksi tanggungan | 3 |
| C4 = seleski kondisi rumah | 4 |
| C5 = Seleksi luas bangunaan | 3 |

Perbaikan bobot w

W1 : 5/ 5+4+3+4+3 = 0,26

W2 : 4/5+4+3+4+3 = 0,21

W3 : 3/5+4+3+4+3 = 0,16

W4 : 4/5+4+3+4+3 = 0,21

W5 : 3/5+4+3+4+3 = 0.16

**Perhitungan**

**Data yang ada**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Alternatif | C1 = Pekerjaan | C2 = penghasilan | C3 = jumlah tanggungan | C4 = kondisi rumah | C5 = luas bangunan |
| agus | Petani | 250.000 | 2 | Sangat sederhana | 110m2 |
| Budi | Wiraswasta | 800.000 | 5 | Sederhana | 130m2 |
| Ceria | Pensiunan | 1.500.000 | 3 | Cukup | 160m2 |
| Dermawan | Buruh | 650.000 | 1 | Cukup | 140m2 |
| egi | Petani | 200.000 | 6 | Sederhana | 100m2 |
| Cost/benefit | Max | Min | Max | Max | Max |

**Data yang ada di ubah sesuai bobot kriteria yang telah di tentukaan**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| alternatif | C1 = Pekerjaan | C2 = penghasilan | C3 = jumlah tanggungan | C4 = kondisi rumah | C5 = luas bangunan |
| agus | 5 | 5 | 2 | 5 | 4 |
| Budi | 3 | 4 | 5 | 4 | 3 |
| Ceria | 2 | 3 | 3 | 3 | 2 |
| Dermawan | 4 | 4 | 1 | 3 | 3 |
| egi | 5 | 5 | 5 | 4 | 5 |

**Mencari vector s ( yang minus karna dia cost = min )**

**agus**

**S1 = (5^0,26)\*(5^-0.21)\*(2^0.16)\*(5^0.21)\*(4^0.16) = 2,11946**

**budi**

**s2 = (3^0,26)\*(4^-0.21)\*(5^0.16)\*(4^0.21)\*(5^0.16) = 2.22700**

**ceria**

**s3 = (2^0,26)\*(3^-0.21)\*(3^0.16)\*(3^0.21)\*(2^0.16) = 1.59504**

**dermawan**

**s4 =(4^0,26)\*(4^-0.21)\*(1^0.16)\*(3^0.21)\*(3^0.16) = 1.16093**

**egi**

**s5 = (5^0,26)\*(5^-0.21)\*(5^0.16)\*(4^0.21)\*(5^0.16) = 2.42689**

**Mencari vector V**

**Agus**

**V1 : 2,11946 / 2,11946 + 2.22700 + 1.59504 + 1.16093 + 2.42689 = 0.22241**

**Budi**

**V2 : 2.22700 / 2,11946 + 2.22700 + 1.59504 + 1.16093 + 2.42689 = 0.23369**

**Ceria**

**V3 : 1.59504 / 2,11946 + 2.22700 + 1.59504 + 1.16093 + 2.42689 = 0.16738**

**Dermawan**

**V4 : 1.16093 / 2,11946 + 2.22700 + 1.59504 + 1.16093 + 2.42689 = 0.12182**

**Egi**

**V5 : 2.42689 / 2,11946 + 2.22700 + 1.59504 + 1.16093 + 2.42689 = 0.25467**

**Dapat di simpulkan alternative calon penerima beras adalah egi v5 karna paling tinggi nilainya**