

BAB IV

HASIL DAN PEMBAHASAN

4.1 Tinjauan Umum

Dalam bab ini disajikan gambaran umum penelitian dan hasil yang telah didapat. Analisis data ini adalah bagian terpenting dari penyusunan penelitian ini karena dari analisis ini didapatkan kesimpulan yang merupakan gambaran jawaban dari permasalahan yang diceritakan pada latar belakang BAB 1.

Responden dalam penelitian ini adalah para individu yang kompeten dan berpengalaman sebagai pelaksana pada proyek jalan Tanjung Bumi – Pamekasan – Sumenep lingkup Pelebaran Jalan Menuju Standar. Jumlah penyebaran kuesioner yang direncanakan secara umum bisa terpenuhi.

4.2 Hasil Penelitian

Untuk memudahkan dalam penelitian ini, hasil yang diperoleh dari kuesioner dibagi menjadi beberapa pokok bahasan antara lain :

1. Profil Responden
2. Presepsi Responden

4.2.1 Profil Responden

Profil responden didapat dari data responden yang diolah dan hasilnya digunakan untuk memberikan gambaran atau penjelasan tentang responden yang ditampilkan dalam bentuk tabel dan *Diagram*. Profil responden terdiri dari jabatan responden dan pengalaman responden.

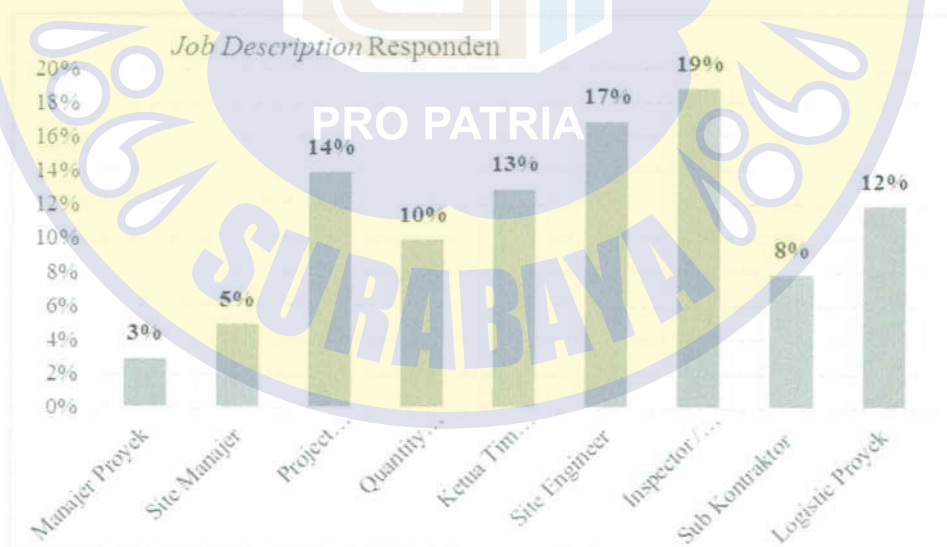
4.2.1.1 Job Description Responden

Dalam penelitian ini jabatan responden dibagi menjadi 9 bagian yaitu :

Tabel 4.1 Job Description Responden

| No. | Job Description Responden | Jumlah Responden | Prosentase |
|-----|---|------------------|------------|
| 1. | Manajer Proyek | 4 | 3% |
| 2. | Site Manajer | 6 | 5% |
| 3. | Project Engineer | 17 | 14% |
| 4. | Quantity Engineer | 12 | 10% |
| 5. | Ketua Tim (<i>Team Leader</i>) / Supervision Manager | 15 | 13% |
| 6. | Site Engineer | 20 | 17% |
| 7. | Inspector / Pengawas lapangan | 23 | 19% |
| 8. | Sub Kontraktor | 9 | 8% |
| 9. | Logistic Proyek | 14 | 12% |
| | Jumlah | 120 | 100% |

Sumber : Hasil Perhitungan Penelitian, 2022



Gambar 4.1 Grafik Prosentase Job Description Responden

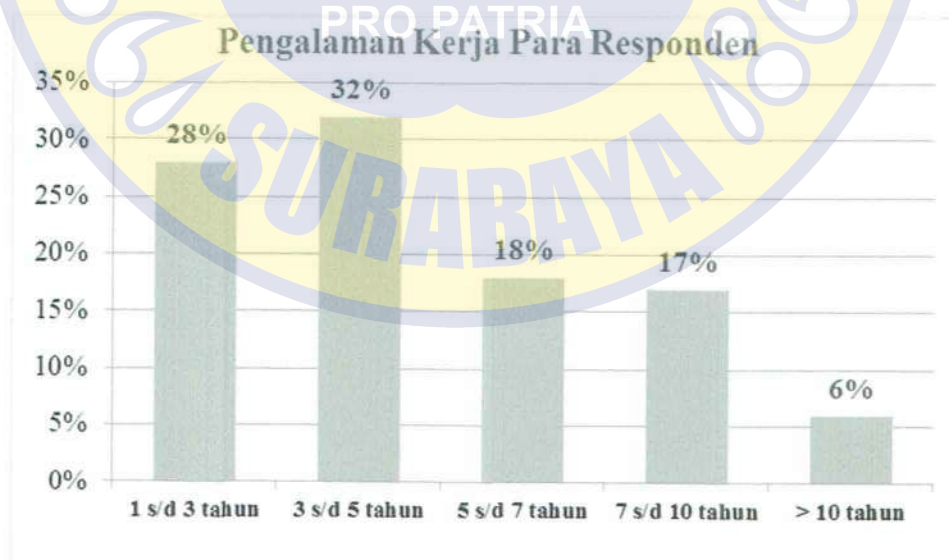
4.2.1.2 Pengalaman Kerja Responden

Ketepatan atau keakuratan jawaban responden dapat dilihat dari keahlian kemampuan yang dimiliki. Keahlian atau kemampuan tersebut diperoleh dari pengalaman lamanya bekerja dilapangan. Dalam penelitian ini pengalaman / lamanya para responden bekerja dilapangan dikelompokkan menjadi 5 (lima), seperti tabel berikut :

Tabel 4.2 Pengalaman Kerja Para Responden

| No | Pengalaman Kerja | Jumlah Responden | Prosentase |
|--------|------------------|------------------|------------|
| 1. | 1 s/d 3 tahun | 33 | 28% |
| 2. | 3 s/d 5 tahun | 38 | 32% |
| 3. | 5 s/d 7 tahun | 22 | 18% |
| 4. | 7 s/d 10 tahun | 20 | 17% |
| 5. | > 10 tahun | 7 | 6% |
| Jumlah | | 120 | 100% |

Sumber : Hasil Perhitungan Penelitian, 2022



Gambar 4.2 Grafik Prosentase Pengalaman Kerja Para Responden

Tabel 4.3 Hasil Dari Kuesioner

| No | X1.1 | X1.2 | X1.3 | X1 | X2.1 | X2.2 | X2.3 | X2 | X3.1 | X3.2 | X3.3 | X3 | X4.1 | X4.2 | X4.3 | X4 | X5.1 | X5.2 | X5.3 | X5 | X6.1 | X6.2 | X6.3 | X6 | X7.1 | X7.2 | X7.3 | X7.4 | X7.5 | X7 |
|----|------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|------|------|----|
| 1 | 4 | 5 | 4 | 13 | 4 | 3 | 4 | 11 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 3 | 15 |
| 2 | 5 | 4 | 4 | 13 | 3 | 4 | 4 | 11 | 4 | 4 | 4 | 12 | 3 | 3 | 4 | 10 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 3 | 15 |
| 3 | 3 | 4 | 4 | 11 | 3 | 3 | 4 | 10 | 3 | 3 | 4 | 10 | 3 | 3 | 4 | 10 | 3 | 4 | 4 | 11 | 4 | 4 | 4 | 12 | 3 | 3 | 3 | 4 | 4 | 17 |
| 4 | 3 | 5 | 3 | 11 | 3 | 3 | 4 | 10 | 3 | 3 | 4 | 10 | 3 | 3 | 4 | 10 | 4 | 4 | 4 | 12 | 3 | 3 | 4 | 10 | 3 | 3 | 3 | 3 | 3 | 15 |
| 5 | 3 | 5 | 3 | 11 | 3 | 3 | 4 | 10 | 3 | 3 | 4 | 10 | 3 | 3 | 4 | 10 | 4 | 4 | 4 | 12 | 3 | 3 | 4 | 10 | 3 | 4 | 4 | 3 | 3 | 17 |
| 6 | 5 | 4 | 4 | 13 | 3 | 3 | 4 | 10 | 3 | 3 | 4 | 10 | 3 | 4 | 4 | 11 | 4 | 4 | 4 | 12 | 3 | 3 | 4 | 10 | 3 | 4 | 4 | 4 | 4 | 19 |
| 7 | 4 | 4 | 5 | 13 | 3 | 4 | 4 | 11 | 3 | 4 | 4 | 11 | 4 | 3 | 4 | 11 | 3 | 3 | 4 | 10 | 3 | 3 | 4 | 10 | 3 | 4 | 4 | 3 | 3 | 17 |
| 8 | 4 | 4 | 5 | 13 | 4 | 3 | 4 | 11 | 4 | 3 | 4 | 11 | 3 | 4 | 4 | 11 | 3 | 3 | 4 | 10 | 3 | 4 | 4 | 11 | 3 | 4 | 4 | 3 | 3 | 17 |
| 9 | 5 | 3 | 3 | 11 | 3 | 4 | 4 | 11 | 3 | 4 | 4 | 11 | 3 | 3 | 4 | 10 | 3 | 3 | 4 | 10 | 4 | 3 | 4 | 11 | 3 | 4 | 4 | 3 | 3 | 17 |
| 10 | 5 | 3 | 3 | 11 | 3 | 3 | 4 | 10 | 3 | 3 | 4 | 10 | 3 | 3 | 4 | 10 | 3 | 3 | 4 | 10 | 3 | 4 | 4 | 11 | 3 | 4 | 4 | 4 | 4 | 19 |
| 11 | 4 | 3 | 4 | 11 | 3 | 3 | 4 | 10 | 3 | 3 | 4 | 10 | 4 | 4 | 4 | 12 | 3 | 4 | 4 | 11 | 3 | 3 | 4 | 10 | 3 | 4 | 4 | 3 | 3 | 17 |
| 12 | 3 | 4 | 4 | 11 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 3 | 4 | 4 | 11 | 4 | 3 | 4 | 11 | 3 | 3 | 4 | 10 | 3 | 4 | 4 | 4 | 4 | 19 |
| 13 | 3 | 4 | 4 | 11 | 3 | 4 | 4 | 11 | 3 | 4 | 4 | 11 | 4 | 5 | 4 | 13 | 3 | 4 | 4 | 11 | 4 | 4 | 4 | 12 | 3 | 4 | 4 | 4 | 4 | 19 |
| 14 | 4 | 3 | 4 | 11 | 4 | 5 | 4 | 13 | 4 | 5 | 4 | 13 | 5 | 4 | 4 | 13 | 3 | 3 | 4 | 10 | 3 | 4 | 4 | 11 | 3 | 4 | 4 | 4 | 4 | 19 |
| 15 | 3 | 4 | 4 | 11 | 5 | 4 | 4 | 13 | 5 | 4 | 4 | 13 | 3 | 4 | 4 | 11 | 3 | 3 | 4 | 10 | 4 | 5 | 4 | 13 | 3 | 4 | 4 | 4 | 4 | 19 |
| 16 | 3 | 4 | 4 | 11 | 3 | 4 | 4 | 11 | 3 | 4 | 4 | 11 | 3 | 3 | 4 | 10 | 4 | 4 | 4 | 12 | 5 | 4 | 4 | 13 | 3 | 4 | 4 | 4 | 4 | 19 |
| 17 | 3 | 3 | 5 | 11 | 3 | 3 | 4 | 10 | 3 | 3 | 4 | 10 | 4 | 4 | 4 | 12 | 3 | 4 | 4 | 11 | 3 | 4 | 4 | 11 | 3 | 3 | 3 | 4 | 4 | 17 |
| 18 | 4 | 3 | 4 | 11 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 5 | 4 | 13 | 3 | 3 | 4 | 10 | 3 | 3 | 3 | 4 | 4 | 17 |
| 19 | 3 | 5 | 3 | 11 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 5 | 4 | 13 | 5 | 4 | 4 | 13 | 4 | 4 | 4 | 12 | 4 | 5 | 4 | 4 | 4 | 21 |
| 20 | 3 | 4 | 5 | 12 | 4 | 5 | 4 | 13 | 4 | 5 | 4 | 13 | 4 | 4 | 4 | 12 | 3 | 4 | 4 | 11 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 4 | 4 | 20 |
| 21 | 4 | 3 | 5 | 12 | 4 | 3 | 4 | 11 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 3 | 3 | 4 | 10 | 4 | 5 | 4 | 13 | 4 | 4 | 4 | 4 | 4 | 20 |
| 22 | 3 | 3 | 5 | 11 | 3 | 4 | 4 | 11 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 4 | 4 | 20 |

| No | X1.1 | X1.2 | X1.3 | X1 | X2.1 | X2.2 | X2.3 | X2 | X3.1 | X3.2 | X3.3 | X3 | X4.1 | X4.2 | X4.3 | X4 | X5.1 | X5.2 | X5.3 | X5 | X6.1 | X6.2 | X6.3 | X6 | X7.1 | X7.2 | X7.3 | X7.4 | X7.5 | X7 |
|----|------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|------|------|----|
| 23 | 3 | 4 | 4 | 11 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 4 | 4 | 20 |
| 24 | 4 | 3 | 4 | 11 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 5 | 4 | 13 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 4 | 4 | 20 |
| 25 | 5 | 4 | 4 | 13 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 12 | 4 | 3 | 3 | 10 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 4 | 4 | 20 |
| 26 | 3 | 5 | 5 | 13 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 12 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 4 | 4 | 20 |
| 27 | 4 | 5 | 4 | 13 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 12 | 3 | 5 | 5 | 13 | 4 | 4 | 4 | 12 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 4 | 4 | 20 |
| 28 | 5 | 4 | 4 | 13 | 3 | 5 | 3 | 11 | 4 | 4 | 4 | 12 | 5 | 3 | 3 | 11 | 4 | 4 | 4 | 12 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 4 | 4 | 20 |
| 29 | 5 | 4 | 4 | 13 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 4 | 4 | 20 |
| 30 | 4 | 5 | 4 | 13 | 4 | 5 | 4 | 13 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 4 | 4 | 20 |
| 31 | 4 | 5 | 4 | 13 | 4 | 3 | 4 | 11 | 4 | 4 | 4 | 12 | 4 | 3 | 3 | 10 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 4 | 5 | 21 |
| 32 | 5 | 4 | 4 | 13 | 3 | 4 | 3 | 10 | 4 | 4 | 4 | 12 | 3 | 4 | 4 | 11 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 4 | 5 | 21 |
| 33 | 3 | 4 | 4 | 11 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 12 | 4 | 3 | 3 | 10 | 3 | 4 | 4 | 11 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 4 | 5 | 21 |
| 34 | 3 | 5 | 3 | 11 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 12 | 3 | 5 | 5 | 13 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 4 | 5 | 21 |
| 35 | 3 | 5 | 3 | 11 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 12 | 4 | 3 | 3 | 10 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 4 | 5 | 21 |
| 36 | 5 | 4 | 4 | 13 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 4 | 5 | 21 |
| 37 | 4 | 4 | 5 | 13 | 3 | 4 | 3 | 10 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 3 | 3 | 3 | 9 | 3 | 4 | 4 | 11 | 4 | 4 | 4 | 4 | 5 | 21 |
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| 42 | 3 | 4 | 4 | 11 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 3 | 4 | 4 | 11 | 4 | 4 | 4 | 4 | 5 | 21 |
| 43 | 3 | 4 | 4 | 11 | 3 | 4 | 3 | 10 | 4 | 4 | 4 | 12 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 4 | 5 | 21 |
| 44 | 4 | 3 | 4 | 11 | 4 | 5 | 4 | 13 | 4 | 4 | 4 | 12 | 3 | 4 | 4 | 11 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 4 | 5 | 21 |
| 45 | 3 | 4 | 4 | 11 | 5 | 4 | 5 | 14 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 4 | 5 | 21 |

| No | X1.1 | X1.2 | X1.3 | X1 | X2.1 | X2.2 | X2.3 | X2 | X3.1 | X3.2 | X3.3 | X3 | X4.1 | X4.2 | X4.3 | X4 | X5.1 | X5.2 | X5.3 | X5 | X6.1 | X6.2 | X6.3 | X6 | X7.1 | X7.2 | X7.3 | X7.4 | X7.5 | X7 |
|----|------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|------|------|----|
| 46 | 3 | 4 | 4 | 11 | 3 | 4 | 3 | 10 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 3 | 4 | 4 | 11 | 4 | 4 | 4 | 4 | 5 | 21 |
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| 49 | 3 | 5 | 3 | 11 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 3 | 3 | 10 | 4 | 4 | 4 | 4 | 5 | 21 |
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| 56 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 4 | 5 | 21 |
| 57 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 4 | 5 | 21 |
| 58 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 4 | 5 | 21 |
| 59 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 4 | 5 | 21 |
| 60 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 4 | 5 | 21 |
| 61 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 4 | 5 | 21 |
| 62 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 4 | 5 | 21 |
| 63 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 4 | 5 | 21 |
| 64 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 4 | 5 | 21 |
| 65 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 4 | 5 | 21 |
| 66 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 4 | 5 | 21 |
| 67 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 3 | 4 | 4 | 11 | 4 | 4 | 4 | 4 | 5 | 21 |
| 68 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |

| No | X1.1 | X1.2 | X1.3 | X1 | X2.1 | X2.2 | X2.3 | X2 | X3.1 | X3.2 | X3.3 | X3 | X4.1 | X4.2 | X4.3 | X4 | X5.1 | X5.2 | X5.3 | X5 | X6.1 | X6.2 | X6.3 | X6 | X7.1 | X7.2 | X7.3 | X7.4 | X7.5 | X7 |
|----|------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|------|------|----|
| 69 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 70 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 71 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 72 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 73 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
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| 78 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 79 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 80 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 3 | 3 | 10 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 81 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 3 | 3 | 10 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 82 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 3 | 3 | 10 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
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| 84 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 85 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 86 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 87 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 88 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 3 | 3 | 3 | 9 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 89 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 5 | 5 | 14 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 90 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 5 | 4 | 4 | 13 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 91 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |

| No | X1.1 | X1.2 | X1.3 | X1 | X2.1 | X2.2 | X2.3 | X2 | X3.1 | X3.2 | X3.3 | X3 | X4.1 | X4.2 | X4.3 | X4 | X5.1 | X5.2 | X5.3 | X5 | X6.1 | X6.2 | X6.3 | X6 | X7.1 | X7.2 | X7.3 | X7.4 | X7.5 | X7 |
|-----|------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|------|------|----|
| 92 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 93 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 3 | 3 | 10 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 94 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 3 | 4 | 4 | 11 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 95 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 3 | 4 | 4 | 11 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 96 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 97 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 98 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 99 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 100 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 12 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 101 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 102 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 103 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 104 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 105 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 106 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 107 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 108 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 109 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 110 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 111 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 112 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 113 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 114 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |

| No | X1.1 | X1.2 | X1.3 | X1 | X2.1 | X2.2 | X2.3 | X2 | X3.1 | X3.2 | X3.3 | X3 | X4.1 | X4.2 | X4.3 | X4 | X5.1 | X5.2 | X5.3 | X5 | X6.1 | X6.2 | X6.3 | X6 | X7.1 | X7.2 | X7.3 | X7.4 | X7.5 | X7 |
|-----|------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|----|------|------|------|------|------|----|
| 115 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 116 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 117 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 118 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 119 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |
| 120 | 5 | 4 | 4 | 13 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 5 | 5 | 5 | 15 | 4 | 4 | 4 | 4 | 5 | 21 |

Sumber : Hasil Analisa Penelitian, 2022

Ket :

- X1, X2, X3, X4, X5, X6, X7 : Total dari penjumlahan masing-masing Indikator X
- Nilai skor :
 - 1 : STB (Sangat Tidak Berpengaruh)
 - 2 : TB (Tidak Berpengaruh)
 - 3 : KB (Kurang Berpengaruh)
 - 4 : B (Berpengaruh)
 - 5 : SB (Sangat Berpengaruh)

4.2.2 Presepsi Responden

Hasil penelitian presepsi responden terhadap faktor penyebab keterlambatan penyelesaian proyek disajikan pada tabel berikut ini :

Tabel 4.4 Rekapitulasi Hasil Penelitian Presepsi Responden

| Butir | Faktor – faktor penyebab keterlambatan | Tingkat Pengaruh Pernyataan | | | | | Jumlah |
|-------|---|-----------------------------|----|----|----|----|--------|
| | | 1 | 2 | 3 | 4 | 5 | |
| | | STB | TB | KB | B | SB | |
| X1.1 | Tidak lengkapnya identifikasi jenis pekerjaan | - | - | 25 | 18 | 77 | 120 |
| X1.2 | Rencana urutan kerja yang tidak tersusun dengan baik | - | - | 16 | 26 | 78 | 120 |
| X1.3 | Rencana dan jadwal tidak sesuai dengan kondisi lapangan | - | - | 10 | 32 | 78 | 120 |
| X2.1 | Keterlambatan pengiriman material | - | - | 31 | 61 | 28 | 120 |
| X2.2 | Kerusakan bahan di tempat penyimpanan | - | - | 24 | 65 | 31 | 120 |
| X2.3 | Material ada yang hilang | - | - | 18 | 75 | 27 | 120 |
| X3.1 | Terjadi kerusakan peralatan | - | - | 18 | 78 | 24 | 120 |
| X3.2 | Kekurangan peralatan | - | - | 15 | 80 | 25 | 120 |

| Butir | Faktor – faktor penyebab keterlambatan | Tingkat Pengaruh Pernyataan | | | | | Jumlah |
|-------|---|-----------------------------|----|----|----|----|--------|
| | | 1 | 2 | 3 | 4 | 5 | |
| | | STB | TB | KB | B | SB | |
| X3.3 | Alat sudah terlalu tua | | | 7 | 90 | 23 | 120 |
| X4.1 | Kekurangan Tenaga kerja | - | - | 16 | 80 | 24 | 120 |
| X4.2 | Kurangnya pengalaman tenaga kerja | - | - | 15 | 79 | 26 | 120 |
| X4.3 | Kecepatan tenaga kerja kurang | | | 7 | 89 | 24 | 120 |
| X5.1 | Karakteristik fisik bangunan sekitar lokasi proyek | - | - | 21 | 76 | 23 | 120 |
| X5.2 | Akses ke lokasi proyek yang sulit | - | - | 15 | 82 | 23 | 120 |
| X5.3 | Lokasi jauh dari pengambilan material | | | 8 | 90 | 22 | 120 |
| X6.1 | Faktor sosial dan budaya | - | - | 38 | 28 | 54 | 120 |
| X6.2 | Pengaruh keamanan lingkungan terhadap pengerjaan proyek | - | - | 32 | 33 | 55 | 120 |
| X6.3 | Hubungan dengan masyarakat dilingkungan proyek yang kurang baik | | | 24 | 43 | 53 | 120 |

| Butir | Faktor – faktor penyebab keterlambatan | Tingkat Pengaruh Pernyataan | | | | | Jumlah |
|-------|---|-----------------------------|----|----|-----|----|--------|
| | | 1 | 2 | 3 | 4 | 5 | |
| | | STB | TB | KB | B | SB | |
| X7.1 | Faktor cuaca yang tidak terprediksi | - | - | 18 | 102 | 0 | 120 |
| X7.2 | Kecelakaan Kerja | - | - | 6 | 113 | 1 | 120 |
| X7.3 | Adanya pemogok buruh | - | - | 6 | 114 | 0 | 120 |
| X7.4 | Adanya huru-hara/kerusuhan atau perang | - | - | 8 | 112 | 0 | 120 |
| X7.5 | Perubahan situasi atau kebijaksanaan politik/ekonomi dan pemerintah | - | - | 8 | 22 | 90 | 120 |

Sumber : Hasil Perhitungan Penelitian, 2022

Ket : STB (Sangat Tidak Berpengaruh), TB (Tidak Berpengaruh), KB (Kurang Berpengaruh), B (Berpengaruh), SB (Sangat Berpengaruh)

4.3 Uji Instrumen Penelitian

4.3.1 Uji Butir

Sebelum melakukan pengujian terhadap validitas dan reabilitas, perlu terlebih dahulu dilaksanakan proses uji butir pertanyaan atau pernyataan. Butir-butir pertanyaan atau pernyataan yang tidak memenuhi syarat kualitas tidak boleh dijadikan sebagai bagian tes. Pengujian validitas dan reabilitas terhadap suatu alat ukur hanya layak dilakukan terhadap butir-butir pertanyaan yang telah memenuhi syarat telah terpilih dan teruji. Uji butir dinyatakan terpilih atau sah apabila nilai $r_c \geq 0,3$ dan gugur tidak sah apabila $r_c \leq 0,3$.

Tabel 4.5 Hasil Uji Butir X1

| Item-Total Statistics (Bagian- Total Statistik) | | | | |
|--|----------------------------|--------------------------------|----------------------------------|----------------------------------|
| | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Cronbach's Alpha if Item Deleted |
| X1.1 | 9.0500 | 1.392 | .553 | .607 |
| X1.2 | 9.0000 | 1.597 | .518 | .643 |
| X1.3 | 8.9167 | 1.775 | .545 | .623 |

Sumber : Hasil Analisis SPSS, 2022

Hasil variabel X1 mendapat nilai r_c (*Corrected Item-Total Correlation*) > 0,3 dari semua butir pernyataan variabel X1 dapat dikatakan terpilih sah.

Tabel 4.6 Hasil Uji Butir X2

| Item-Total Statistics (Bagian- Total Statistik) | | | | |
|--|----------------------------|--------------------------------|----------------------------------|----------------------------------|
| | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Cronbach's Alpha if Item Deleted |
| X2.1 | 8.1417 | 1.434 | .892 | .854 |
| X2.2 | 8.0500 | 1.628 | .792 | .934 |
| X2.3 | 8.0417 | 1.687 | .865 | .881 |

Sumber : Hasil Analisis SPSS, 2022

Hasil analisis uji butir variabel X2 Material mendapat nilai r_c (*Corrected Item-Total Correlation*) $> 0,3$ dari semua butir pernyataan variabel X2 dapat dikatakan terpilih sah.

Tabel 4.7 Hasil Uji Butir X3

| Item-Total Statistics (Bagian- Total Statistik) | | | | |
|--|----------------------------|--------------------------------|----------------------------------|----------------------------------|
| | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Cronbach's Alpha if Item Deleted |
| X3.1 | 8.2167 | 1.045 | .781 | .922 |
| X3.2 | 8.1917 | .980 | .889 | .826 |
| X3.3 | 8.1417 | 1.198 | .837 | .881 |

Sumber : Hasil Analisis SPSS, 2022

Hasil analisis uji butir variabel X3 peralatan mendapat nilai r_c (*Corrected Item-Total Correlation*) $> 0,3$ dari semua butir pernyataan variabel X3 dapat dikatakan terpilih sah.

Tabel 4.8 Hasil Uji Butir X4

| Item-Total Statistics(Bagian- Total Statistik) | | | | |
|---|----------------------------|--------------------------------|----------------------------------|----------------------------------|
| | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Cronbach's Alpha if Item Deleted |
| X4.1 | 8.2333 | 1.071 | .659 | .924 |
| X4.2 | 8.2000 | .918 | .860 | .733 |
| X4.3 | 8.1500 | 1.137 | .795 | .809 |

Sumber : Hasil Analisis SPSS, 2022

Hasil analisis uji butir variabel X4 tenaga kerja mendapat nilai r_c (*Corrected Item-Total Correlation*) $> 0,3$ dari semua butir pernyataan variabel X4 dapat dikatakan terpilih sah.

Tabel 4.9 Hasil Uji Butir X5

| Item-Total Statistics(Bagian- Total Statistik) | | | | |
|---|----------------------------|--------------------------------|----------------------------------|----------------------------------|
| | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Cronbach's Alpha if Item Deleted |
| X5.1 | 8.2000 | 1.018 | .885 | .920 |
| X5.2 | 8.1417 | 1.081 | .908 | .894 |
| X5.3 | 8.0917 | 1.294 | .876 | .931 |

Sumber : Hasil Analisis SPSS, 2022

Hasil analisis uji butir variabel X5 nilai r_c (*Corrected Item-Total Correlation*) > 0,3 dari semua butir pernyataan variabel X5 dapat dikatakan terpilih sah.

Tabel 4.10 Hasil Uji Butir X6

| Item-Total Statistics(Bagian- Total Statistik) | | | | |
|---|----------------------------|--------------------------------|----------------------------------|----------------------------------|
| | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Cronbach's Alpha if Item Deleted |
| X6.1 | 8.4333 | 2.483 | .884 | .967 |
| X6.2 | 8.3750 | 2.488 | .942 | .920 |
| X6.3 | 8.3250 | 2.725 | .926 | .937 |

Sumber : Hasil Analisis SPSS, 2022

Uji butir variabel X6 nilai r_c (*Corrected Item-Total Correlation*) > 0,3 dari semua butir pernyataan variabel X6 dapat dikatakan terpilih sah.

Tabel 4.11 Hasil Uji Butir X7

| Item-Total Statistics(Bagian- Total Statistik) | | | | |
|---|----------------------------|--------------------------------|----------------------------------|----------------------------------|
| | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Cronbach's Alpha if Item Deleted |
| X7.1 | 16.5250 | 1.159 | .815 | .735 |
| X7.2 | 16.4167 | 1.522 | .573 | .815 |
| X7.3 | 16.4250 | 1.524 | .639 | .807 |
| X7.4 | 16.4417 | 1.425 | .718 | .785 |
| X7.5 | 15.6917 | .770 | .763 | .820 |

Sumber : Hasil Analisis SPSS, 2022

Hasil analisis uji butir variabel X7 eksternal mendapat nilai r_c (*Corrected Item-Total Correlation*) $> 0,3$ dari semua butir pernyataan variabel X7 dapat dikatakan terpilih sah.

4.3.2 Uji Validitas

Uji validitas terhadap data memberikan informasi yang akurat dan mempunyai kemampuan dan kelemahan suatu instrument yang menjadi objek pengukuran yang dilakukan. Jika suatu item pernyataan dinyatakan tidak valid, maka item pernyataan itu tidak dapat digunakan dalam uji selanjutnya. Sebuah instrument dikatakan valid apabila varian *cumulative* terjadi $> 60\%$. Pengujian validitas item masing-masing variabel perencanaan dan pedjadwalan, material, perralatan, tenaga kerja, lokasi, lingkungan, eksternal pada penelitian ini menggunakan Software SPSS For Windows.

Tabel 4.12 Hasil Uji Validitas X1

| Total Variance Explained | | | | | | |
|--------------------------|---------------------|---------------|--------------|-------------------------------------|---------------|--------------|
| Component | Initial Eigenvalues | | | Extraction Sums of Squared Loadings | | |
| | Total | % of Variance | Cumulative % | Total | % of Variance | Cumulative % |
| 1 | 1.921 | 64.030 | 64.030 | 1.921 | 64.030 | 64.030 |
| 2 | .567 | 18.911 | 82.941 | | | |
| 3 | .512 | 17.059 | 100.000 | | | |

Extraction Method: Principal Component Analysis.

Sumber : Hasil Analisis SPSS, 2022

Hasil uji validitas variabel X1 perencanaan dan pedjadwalan mendapat nilai *cumulative* $> 60\%$ sehingga variabel X1 dapat dikatakan valid.

Tabel 4.13 Hasil Uji Validitas X2

| Total Variance Explained | | | | | | |
|--|---------------------|---------------|--------------|-------------------------------------|---------------|--------------|
| Component | Initial Eigenvalues | | | Extraction Sums of Squared Loadings | | |
| | Total | % of Variance | Cumulative % | Total | % of Variance | Cumulative % |
| 1 | 2.615 | 87.160 | 87.160 | 2.615 | 87.160 | 87.160 |
| 2 | .274 | 9.122 | 96.282 | | | |
| 3 | .112 | 3.718 | 100.000 | | | |
| Extraction Method: Principal Component Analysis. | | | | | | |

Sumber : Hasil Analisis SPSS, 2022

Hasil uji validitas variabel X2 material mendapat nilai *cumulative* > 60% sehingga variabel X2 dapat dikatakan valid.

Tabel 4.14 Hasil Uji Validitas X3

| Total Variance Explained | | | | | | |
|--|---------------------|---------------|--------------|-------------------------------------|---------------|--------------|
| Component | Initial Eigenvalues | | | Extraction Sums of Squared Loadings | | |
| | Total | % of Variance | Cumulative % | Total | % of Variance | Cumulative % |
| 1 | 2.582 | 86.081 | 86.081 | 2.582 | 86.081 | 86.081 |
| 2 | .297 | 9.885 | 95.967 | | | |
| 3 | .121 | 4.033 | 100.000 | | | |
| Extraction Method: Principal Component Analysis. | | | | | | |

Sumber : Hasil Analisis SPSS, 2022

Hasil uji validitas variabel X3 peralatan mendapat nilai *cumulative* > 60% sehingga variabel X3 dapat dikatakan valid.

Tabel 4.15 Hasil Uji Validitas X4

| Total Variance Explained | | | | | | |
|--------------------------|---------------------|---------------|--------------|-------------------------------------|---------------|--------------|
| Component | Initial Eigenvalues | | | Extraction Sums of Squared Loadings | | |
| | Total | % of Variance | Cumulative % | Total | % of Variance | Cumulative % |
| 1 | 2.432 | 81.050 | 81.050 | 2.432 | 81.050 | 81.050 |
| 2 | .449 | 14.970 | 96.021 | | | |
| 3 | .119 | 3.979 | 100.000 | | | |

Extraction Method: Principal Component Analysis.

Sumber : Hasil Analisis SPSS, 2022

Hasil uji validitas variabel X4 tenaga kerja mendapat nilai *cumulative* > 60% sehingga variabel X4 dapat dikatakan valid.

Tabel 4.16 Hasil Uji Validitas X5

| Total Variance Explained | | | | | | |
|--------------------------|---------------------|---------------|--------------|-------------------------------------|---------------|--------------|
| Component | Initial Eigenvalues | | | Extraction Sums of Squared Loadings | | |
| | Total | % of Variance | Cumulative % | Total | % of Variance | Cumulative % |
| 1 | 2.714 | 90.457 | 90.457 | 2.714 | 90.457 | 90.457 |
| 2 | .168 | 5.600 | 96.057 | | | |
| 3 | .118 | 3.943 | 100.000 | | | |

Extraction Method: Principal Component Analysis.

Sumber : Hasil Analisis SPSS, 2022

Hasil uji validitas variabel X5 lokasi mendapat nilai *cumulative* > 60% sehingga variabel X5 dapat dikatakan valid.

Tabel 4.17 Hasil Uji Validitas X6

| Total Variance Explained | | | | | | |
|--------------------------|---------------------|---------------|--------------|-------------------------------------|---------------|--------------|
| Component | Initial Eigenvalues | | | Extraction Sums of Squared Loadings | | |
| | Total | % of Variance | Cumulative % | Total | % of Variance | Cumulative % |
| 1 | 2.787 | 92.906 | 92.906 | 2.787 | 92.906 | 92.906 |
| 2 | .154 | 5.143 | 98.049 | | | |
| 3 | .059 | 1.951 | 100.000 | | | |

Extraction Method: Principal Component Analysis.

Sumber : Hasil Analisis SPSS, 2022

Hasil uji validitas variabel X6 lingkungan mendapat nilai *cumulative* > 60% sehingga variabel X6 dapat dikatakan valid.

Tabel 4.18 Hasil Uji Validitas X7

| Total Variance Explained | | | | | | |
|--------------------------|---------------------|---------------|--------------|-------------------------------------|---------------|--------------|
| Component | Initial Eigenvalues | | | Extraction Sums of Squared Loadings | | |
| | Total | % of Variance | Cumulative % | Total | % of Variance | Cumulative % |
| 1 | 3.323 | 66.470 | 66.470 | 3.323 | 66.470 | 66.470 |
| 2 | 1.092 | 21.844 | 88.314 | 1.092 | 21.844 | 88.314 |
| 3 | .352 | 7.037 | 95.351 | | | |
| 4 | .166 | 3.313 | 98.664 | | | |
| 5 | .067 | 1.336 | 100.000 | | | |

Extraction Method: Principal Component Analysis.

Sumber : Hasil Analisis SPSS, 2022

Hasil uji validitas variabel X7 eksternal mendapat nilai *cumulative* > 60% sehingga variabel X7 dapat dikatakan valid.

4.3.3 Uji Reabilitas

Uji reabilitas menunjukkan suatu ukuran bila digunakan berkali-kali, akan menghasilkan data yang sama (konsistensi data dapat dipercaya). Uji ini dilakukan dengan teknik *Cronbach Alpha* dengan hasil > 0,6. Pengujian reabilitas item masing-masing variabel perencanaan dan penjadwalan, material, peralatan, tenaga

kerja, lokasi, lingkungan, eksternal pada penelitian ini menggunakan Software SPSSFor Windows.

Tabel 4.19 Hasil Reliability Statistics X1

| Reliability Statistics | |
|------------------------|------------|
| Cronbach's Alpha | N of Items |
| .714 | 3 |

Sumber : Hasil Analisis SPSS, 2022

Hasil uji reabilitas variabel X1 perencanaan dan penjadwalan mendapat nilai *Cronbach's Alpha* > 0,6 sehingga variabel X1 dapat dikatakan realibel.

Tabel 4.20 Hasil Reliability Statistics X2

| Reliability Statistics | |
|------------------------|------------|
| Cronbach's Alpha | N of Items |
| .924 | 3 |

Sumber : Hasil Analisis SPSS, 2022

Hasil uji reabilitas variabel X2 material mendapat nilai *Cronbach's Alpha* > 0,6 sehingga variabel X2 dapat dikatakan realibel.

Tabel 4.21 Hasil Reliability Statistics X3

| Reliability Statistics | |
|------------------------|------------|
| Cronbach's Alpha | N of Items |
| .915 | 3 |

Sumber : Hasil Analisis SPSS, 2022

Hasil uji reabilitas variabel X3 peralatan mendapat nilai *Cronbach's Alpha* > 0,6 sehingga variabel X3 dapat dikatakan realibel.

Tabel 4.22 Hasil Reliability Statistics X4

| Reliability Statistics | |
|------------------------|------------|
| Cronbach's Alpha | N of Items |
| .877 | 3 |

Sumber : Hasil Analisis SPSS, 2022

Hasil uji reabilitas variabel X4 tenaga kerja mendapat nilai *Cronbach's Alpha* > 0,6 sehingga variabel X4 dapat dikatakan realibel.

Tabel 4.23 Hasil Reliability Statistics X5

| Reliability Statistics | |
|------------------------|------------|
| Cronbach's Alpha | N of Items |
| .942 | 3 |

Sumber : Hasil Analisis SPSS, 2022

Hasil uji reabilitas variabel X5 lokasi mendapat nilai *Cronbach's Alpha* > 0,6 sehingga variabel X5 dapat dikatakan realibel.

Tabel 4.24 Hasil Reliability Statistics X6

| Reliability Statistics | |
|------------------------|------------|
| Cronbach's Alpha | N of Items |
| .960 | 3 |

Sumber : Hasil Analisis SPSS, 2022

Hasil uji reabilitas variabel X6 lingkungan mendapat nilai *Cronbach's Alpha* > 0,6 sehingga variabel X6 dapat dikatakan realibel.

Tabel 4.25 Hasil Reliability Statistics X7

| Reliability Statistics | |
|------------------------|------------|
| Cronbach's Alpha | N of Items |
| .827 | 5 |

Sumber : Hasil Analisis SPSS, 2022

Hasil uji reabilitas variabel X7 eksternal mendapat nilai *Cronbach's Alpha* > 0,6 sehingga variabel X7 dapat dikatakan realibel.

4.4 Analisis Data

4.4.1 Analisis Regresi Linier Berganda

Analisis regresi digunakan untuk memperoleh data faktor apa yang menyebabkan keterlambatan waktu pekerjaan gedung dan dalam pengoalahan data digunakan analisis regresi linier berganda metode stepwise, hasil analisis regresi dapat dilihat pada tabel berikut :

4.4.2.1 Pengujian Asumsi Model Regresi

Pengujian asumsi model regresi meliputi uji normalitas dan multikolinieritas, berikut adalah uraian perhitungan uji asumsi model regresi :

1. Pengujian Asumsi Normalitas

Model regresi dikatakan normal jika memenuhi asumsi normalitas residual yang disebabkan model regresi berdistribusi normal. Untuk menguji asumsi digunakan metode *Kolmogorov-Smirnov Z* yang dapat dilihat pada tabel dibawah ini :

Tabel 4.26 One-Sample Kolmogorov-Smirnov Test

| One-Sample Kolmogorov-Smirnov Test | | |
|--|----------------|-------------------|
| | | Y |
| N | | 120 |
| Normal Parameters ^{a,b} | Mean | 13.6168 |
| | Std. Deviation | 1.30659 |
| | | |
| Most Extreme Differences | Absolute | .115 |
| | Positive | .111 |
| | Negative | -.115 |
| Test Statistic | | .115 |
| Asymp. Sig. (2-tailed) | | .000 ^c |
| a. Test distribution is Normal. | | |
| b. Calculated from data. | | |
| c. Lilliefors Significance Correction. | | |

Sumber : Hasil Analisis SPSS, 2022

Berdasarkan pengujian asumsi normalitas diatas diperoleh nilai *Kolmogorov-Smirnov Z* 0,115 berdasarkan nilai yang didapat $> \alpha = 0,005$ dan dapat dikatakan bahwa residual berdistribusi normal telah terpenuhi.

2. Pengujian Asumsi Multikolinieritas

Untuk mengetahui ada atau tidaknya multikolinieritas dapat dilihat dari VIF (*Variance Inflation Factor*). Jika VIF memiliki nilai lebih dari 10 berarti multikolinieritas ada dan jika nilai VIF kurang dari 10 menunjukkan tidak adanya multikolinieritas ,hasil uji multikolinieritas dapat dilihat pada tabel berikut :

Tabel 4.27 Hasil Asumsi Multikolinieritas

| No | Statistik Uji | VIF | Keterangan |
|----|--------------------------|-------|-----------------------|
| 1 | Peren.dan penjadwalan X1 | 3.506 | Non-Multikolinieritas |
| 2 | Material X2 | 2.556 | Non-Multikolinieritas |
| 3 | Peralatan X3 | 2.585 | Non-Multikolinieritas |
| 4 | Tenaga Kerja X4 | 2.653 | Non-Multikolinieritas |
| 5 | Lokasi X5 | 3.174 | Non-Multikolinieritas |
| 6 | Lingkungan X6 | 2.895 | Non-Multikolinieritas |
| 7 | Eksternal X7 | 1.298 | Non-Multikolinieritas |

Sumber : Hasil Analisis SPSS, 2022

Hasil yang didapat dari tabel 4.30 semua variabel X1 sampai X7 mempunyai nilai $VIF < 10$,asumsi tidak ada terjadinya multikolinieritas terpenuhi.

4.4.2.2 Analisis Regresi Linier Berganda (*Metode Stepwise dan Enter*)

Analisis regresi digunakan untuk memperoleh data faktor apa yang menyebabkan keterlambatan waktu pekerjaan gedung dan dalam pengolahan data digunakan analisis regresi linier berganda metode stepwise dan enter, hasil analisis regresi dapat dilihat pada tabel berikut :



Tabel 4.28 Hasil Analisis R Square

| Model Summary ^b | | | | | | | | | | |
|---|-------------------|----------|-------------------|----------------------------|-------------------|----------|-----|-----|---------------|---------------|
| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | Change Statistics | | | | | Durbin-Watson |
| | | | | | R Square Change | F Change | df1 | df2 | Sig. F Change | |
| 1 | .989 ^a | .978 | .976 | .20143 | .978 | 699.264 | 7 | 112 | .000 | 1.184 |
| a. Predictors: (Constant), X7, X2, X6, X3, X4, X5, X1 | | | | | | | | | | |
| b. Dependent Variable: Y | | | | | | | | | | |

Sumber : Hasil Output SPSS, 2022

Tabel 4.29 Hasil Analisis Enter Method

| Variables Entered/Removed ^a | | | |
|--|---|-------------------|--------|
| Model | Variables Entered | Variables Removed | Method |
| 1 | X7, X2, X6, X3, X4, X5, X1 ^b | | Enter |
| a. Dependent Variable: Y | | | |
| b. All requested variables entered. | | | |

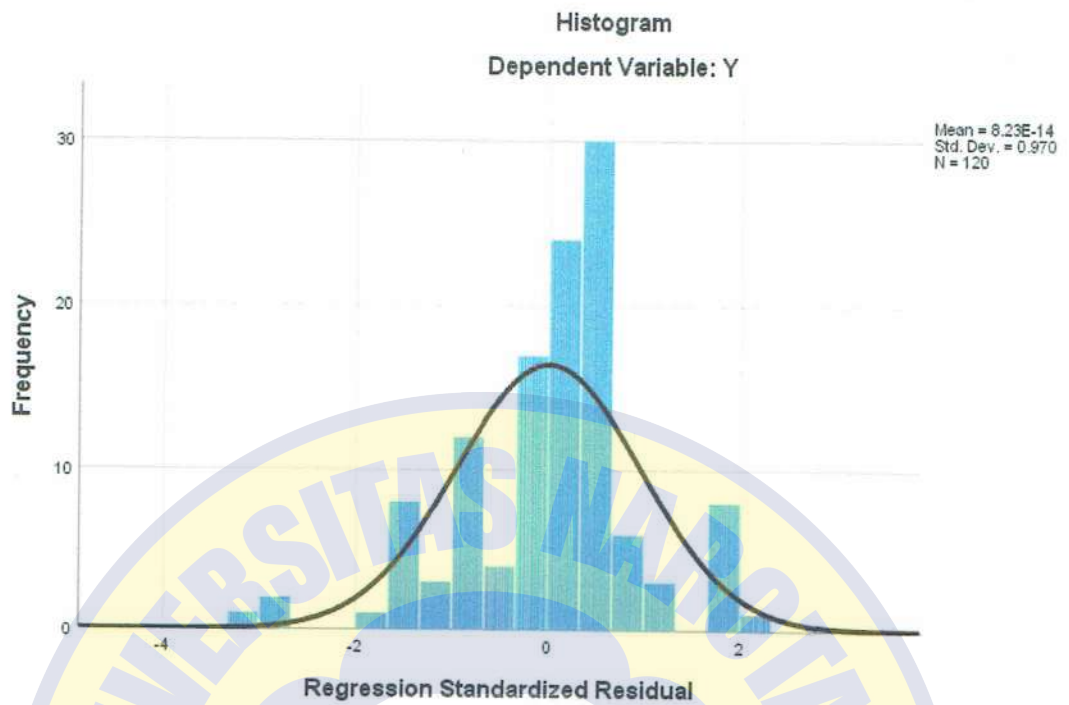
Sumber : Hasil Output SPSS, 2022

Tabel 4.30 Hasil Analisis Regresi (*Metode Stepwise*)

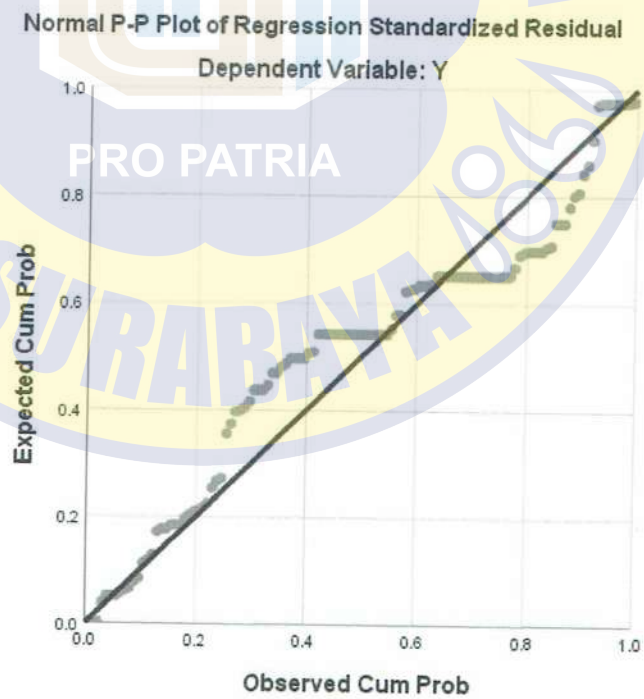
| Coefficients ^a | | | | | | | | | | | | | |
|---------------------------|------------|-----------------------------|------------|---------------------------|--------|------|---------------------------------|-------------|--------------|---------|-------|-------------------------|-------|
| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. | 95.0% Confidence Interval for B | | Correlations | | | Collinearity Statistics | |
| | | B | Std. Error | Beta | | | Lower Bound | Upper Bound | Zero-order | Partial | Part | Tolerance | VIF |
| 1 | (Constant) | 7.221 | 1.089 | | 6.632 | .000 | 5.064 | 9.378 | | | | | |
| | X1 | -.410 | .061 | -.177 | -6.687 | .000 | -.531 | -.288 | -.820 | -.534 | -.095 | .285 | 3.506 |
| | X2 | .128 | .016 | .181 | 8.003 | .000 | .096 | .159 | .810 | .603 | .113 | .391 | 2.556 |
| | X3 | .182 | .019 | .212 | 9.308 | .000 | .143 | .220 | .746 | .660 | .132 | .387 | 2.585 |
| | X4 | .131 | .020 | .149 | 6.452 | .000 | .090 | .171 | .786 | .521 | .091 | .377 | 2.653 |
| | X5 | .115 | .021 | .138 | 5.487 | .000 | .073 | .156 | .834 | .460 | .078 | .315 | 3.174 |
| | X6 | .135 | .013 | .247 | 10.254 | .000 | .109 | .162 | .774 | .696 | .145 | .345 | 2.895 |
| | X7 | .168 | .015 | .179 | 11.085 | .000 | .138 | .199 | .590 | .723 | .157 | .770 | 1.298 |

a. Dependent Variable: Y

Sumber : Hasil Output SPSS, 2022



Gambar 4.3 *Histogram Stepwise Dependent Keterlambatan Proyek (Y)*



Gambar 4.4 *Regresion Stepwise Dependent Keterlambatan Proyek (Y)*

Berdasarkan tabel 4.28 sampai tabel 4.30 dapat dilihat variabel independen X1-X7 memiliki nilai yang signifikan. Interpretasi metode *stepwise* dari hasil tabel diatas adalah sebagai berikut :

$$Y = 7.221 + 0,182 (X3)$$

Dimana :

1. $Constant = 7.221$

Nilai konstanta positif menunjukkan pengaruh positif variabel independen (perencanaan dan penjadwalan, material, peralatan, tenaga kerja, lokasi, lingkungan, eksternal). Bila variabel independen naik atau berpengaruh satu satuan, maka variabel dependen (keterlambatan proyek) akan mengalami kenaikan atau terpenuhi.

2. $\beta_7 = 0,182$

Nilai koefisien variabel X3 Peralatan terhadap variabel Y keterlambatan waktu menunjukkan nilai positif 0,182 atau 18,25% yang dapat diartikan variabel X3 Peralatan adalah variabel yang paling berpengaruh terhadap variabel Y keterlambatan proyek.

3. Variabel X1, X2, X4, X5, X6, X7 tidak muncul pada hasil analisis regresi metode *stepwise* yang artinya diantara semua variabel hanya variabel X3 yang signifikan berpengaruh terhadap keterlambatan proyek variabel Y, sedangkan variabel yang lainnya tidak berpengaruh.

4.4.3 Penelitian Terdahulu dan Penelitian Sekarang

Dalam penelitian peneliti melihat literatur dari penelitian terdahulu sebagai pedoman dalam melakukan penelitian, berikut terdapat penelitian terdahulu.

Tabel 4.31 Penelitian Terdahulu

| Nama Peneliti | Judul | Tahun | Variabel | Metode | Hasil Analisis |
|---------------|---|-------|---|--|--|
| Sayyidati | Analisa Keterlambatan pada Proyek Konstruksi Jalan Toll dengan Metode Analisa Faktor | 2021 | 1.Aspek Manajemen 2.Aspek Pembebasan Lahan 3. Aspek Pandemi covid 19 4. Aspek Sumber daya 5. Aspek Utilitas 6. Aspek Eksternal | Analisa Faktor | Penelitian ini menunjukkan hasil kesimpulan bahwa faktor utama penyebab keterlambatan yang terjadi pada Proyek Jalan Tol Cibitung – Cilincing Seksi 4 meliputi pembebasan lahan, perubahan desain, pergeseran jaringan utilitas dan pandemi covid 19 |
| Eko | Analisa Penyebab Keterlambatan Pelaksanaan Proyek KONstruksi Jalan di Kabupaten Kebumen | 2020 | 1. Tenaga Kerja 2.Peralatan 3.Tempat 4.Keuangan 5.Situasi 6.Kontrak 7.Perencanaan, schedule 8.Sistem inspeksi,control,evaluasi pekerjaan 9.Manajerial | Validitas, Reabilitas Analisa deskriptif | Dari hasil penelitian faktor yang paling dominan dengan urutan 3 besar yaitu 1. Peralatan 2. Faktor bahan 3. Faktor Manajerial |

Sumber : Penelitian terdahulu, 2022

Tabel dibawah ini adalah penelitian yang dilakukan oleh peneliti, sebagai berikut:

Tabel 4.32 Penelitian Sekarang

| Nama Peneliti | Judul | Tahun | Variabel | Metode | Hasil Analisis |
|----------------------|---|--------------|---|---|--|
| Fajar Hidayat | Analisis Faktor Penyebab Keterlambatan Pelaksanaan Proyek Jalan Tanjung Bumi – Pamekasan – Sumenep Pada Kontraktor Dengan Metode Analisis Statistik | 2022 | Perencanaan Dan Penjadwalan, Material, Peralatan, Tenaga Kerja, Lokasi, Lingkungan, Eksternal | Uji Butir, Nilai Uji Validitas, Uji Reabilitas, Analisis Regresi Berganda | Hasil yang didapatkan bahwa faktor peralatan yang paling dominan dalam mempengaruhi keterlambatan proyek |

Sumber : Analisa Penelitian, 2022

Terdapat perbedaan antara penelitian terdahulu dengan penelitian yang sekarang, yaitu dari segi lokasi proyek yang di teliti, dan metode yang digunakan.