

REKAPITULASI ENGINEER ESTIMATE (EE)

PEKERJAAN : Pembangunan Gedung Laboratorium CBT  
LOKASI : Kab. Bangkalan - Jawa Timur  
TAHUN ANGGARAN : 2026

| NO                                                                                   | JENIS PEKERJAAN                            | JUMLAH HARGA (Rp) |
|--------------------------------------------------------------------------------------|--------------------------------------------|-------------------|
| I                                                                                    | PEKERJAAN PENDAHULUAN                      |                   |
|                                                                                      | A KESELAMATAN DAN KESEJAHTERAAN KERJA (K3) | 18,150,000.00     |
|                                                                                      | B PEKERJAAN PERSIAPAN                      | 89,835,989.60     |
| II                                                                                   | PEKERJAAN STRUKTUR                         |                   |
|                                                                                      | A PEKERJAAN PONDASI                        | 1,143,398,952.52  |
|                                                                                      | B PEKERJAAN LANTAI 1                       | 658,877,692.01    |
|                                                                                      | C PEKERJAAN LANTAI 2                       | 487,333,884.04    |
|                                                                                      | D PEKERJAAN LANTAI 3                       | 216,920,076.71    |
| SUB TOTAL                                                                            |                                            | 2,614,516,594.87  |
| PPN 11%                                                                              |                                            | 287,596,825.44    |
| TOTAL                                                                                |                                            | 2,902,113,420.31  |
| DIBULATKAN                                                                           |                                            | 2,902,113,000.00  |
| Terbilang :<br><br>Dua milyar sembilan ratus dua juta seratus tiga belas ribu rupiah |                                            |                   |

Sleman, 18 Agustus 2026  
Dibuat oleh,  
Kontraktor Pelaksana  
CV. MITAYANI MAJU MANDIRI

  
CV. MITAYANI MAJU MANDIRI  
Agung Santosa  
Direktur

ENGINEER ESTIMATE (EE)

PEKERJAAN : Pembangunan Gedung Laboratorium CBT  
LOKASI : Kab. Bangkalan - Jawa Timur  
TAHUN ANGGARAN : 2026

| NO | JENIS PEKERJAAN                                                                                                   | KODE ANALISA | VOL.     | SAT.  | HARGA SATUAN ( Rp ) | JUMLAH HARGA ( Rp ) |
|----|-------------------------------------------------------------------------------------------------------------------|--------------|----------|-------|---------------------|---------------------|
| I  | PEKERJAAN PERSIAPAN                                                                                               |              |          |       |                     |                     |
| A  | KESELAMATAN DAN KESEJAHTERAAN KERJA (K3)                                                                          |              |          |       |                     |                     |
| 1  | Penyiapan RKK                                                                                                     |              |          |       |                     |                     |
|    | Pembuatan dokumen SMKK (RKK, RMPK, RKPPL, RMLLP), Pembuatan Prosedur dan Instruksi Kerja, Penyusunan Laporan SMKK |              | 1.00     | set   | 500,000.00          | 500,000.00          |
| 2  | Sosialisasi, Promosi dan Pelatihan                                                                                |              |          |       |                     |                     |
|    | Spanduk (Banner) K3; Uk. 4x1 m                                                                                    |              | 1.00     | Bh    | 500,000.00          | 500,000.00          |
|    | Papan Informasi K3                                                                                                |              | 2.00     | Bh    | 500,000.00          | 1,000,000.00        |
| 3  | Alat Pelindung Kerja dan Alat Pelindung Diri                                                                      |              |          |       |                     |                     |
|    | Helm Pelindung (Safety Helmet) -APD                                                                               |              | 40.00    | Bh    | 45,000.00           | 1,800,000.00        |
|    | Sarung Tangan (Safety Gloves) - APD                                                                               |              | 40.00    | Bh    | 5,000.00            | 200,000.00          |
|    | Sepatu Keselamatan (Safety Shoes) - APD                                                                           |              | 40.00    | Bh    | 95,000.00           | 3,800,000.00        |
|    | Rompi Keselamatan (Safety Vest) -APD                                                                              |              | 40.00    | Bh    | 35,000.00           | 1,400,000.00        |
|    | Penunjang Seluruh Tubuh (Full Body Harmes) - APD                                                                  |              | 5.00     | Bh    | 350,000.00          | 1,750,000.00        |
|    | Pelindung Pernafasan dan Mulut (Masker) - APD                                                                     |              | 40.00    | Bh    | 5,000.00            | 200,000.00          |
| 4  | Fasilitas Sarana, Prasarana, dan Alat Kesehatan                                                                   |              |          |       |                     |                     |
|    | Peralatan P3K (kotak P3K, obat luka, perban dll)                                                                  |              | 1.00     | Ls    | 1,000,000.00        | 1,000,000.00        |
| 5  | Rambu-rambu yang diperlukan                                                                                       |              |          |       |                     |                     |
|    | Rambu Petunjuk                                                                                                    |              | 5.00     | bh    | 150,000.00          | 750,000.00          |
|    | Rambu Larangan                                                                                                    |              | 5.00     | bh    | 150,000.00          | 750,000.00          |
|    | Rambu Peringatan                                                                                                  |              | 5.00     | bh    | 150,000.00          | 750,000.00          |
| 6  | Kegiatan dan Peralatan terkait dengan Pengendalian Resiko Keselamatan Konstruksi                                  |              |          |       |                     |                     |
|    | Alat Pemadam Api Ringan (APAR) 6 kg                                                                               |              | 5.00     | Bh    | 650,000.00          | 3,250,000.00        |
|    | Lampu Rotari                                                                                                      |              | 1.00     | Bh    | 500,000.00          | 500,000.00          |
|    |                                                                                                                   |              |          |       | Sub Jumlah          | 18,150,000.00       |
| B  | PEKERJAAN PERSIAPAN                                                                                               |              |          |       |                     |                     |
| 1  | Pengukuran dan Stake Out                                                                                          |              | 1.00     | ls    | 5,000,000.00        | 5,000,000.00        |
| 2  | Pembersihan lahan dan Striping                                                                                    | 1.1.3.1      | 1,085.88 | m2    | 14,080.00           | 15,289,120.00       |
| 3  | Pemasangan Bowplank                                                                                               | 1.1.4.2      | 158.40   | m'    | 81,094.00           | 12,845,289.60       |
| 4  | Pembuatan Pagar Proyek tinggi 2 meter                                                                             | 1.1.1.2      | 132.50   | m'    | 232,404.00          | 30,793,530.00       |
| 5  | Pembuatan Direksi Keet / Gudang Material                                                                          | 1.1.2.3      | 12.00    | m2    | 1,479,095.00        | 17,749,140.00       |
| 6  | Tebang batang pohon Ø15-30 cm                                                                                     | 1.1.3.4      | 30.00    | btg   | 18,054.00           | 541,620.00          |
| 7  | Gali dan cabut tunggul pohon                                                                                      | 1.1.3.10     | 30.00    | tgl   | 64,803.00           | 1,944,090.00        |
| 8  | Pembongkaran Bangunan                                                                                             | 1.6.2        | 20.00    | m3    | 33,660.00           | 673,200.00          |
| 9  | Mobilisasi dan Demobilisasi                                                                                       |              | 1.00     | ls    | 5,000,000.00        | 5,000,000.00        |
|    |                                                                                                                   |              |          |       | Sub Jumlah          | 89,835,989.60       |
| II | PEKERJAAN STRUKTUR                                                                                                |              |          |       |                     |                     |
| A  | PEKERJAAN PONDASI                                                                                                 |              |          |       |                     |                     |
| A1 | PONDASI TIANG PANCANG                                                                                             |              |          |       |                     |                     |
| 1  | Pengadaan tiang pancang (Spun pile Ø 40 cm, tinggi 24 m, 3 segmen)                                                | 2.2.2.4.20   | 64.00    | titik | 11,119,440.00       | 711,644,160.00      |
| 2  | Pemancangan tiang pancang (Spun pile Ø 40 cm, tinggi 24 m, 3 segmen)                                              | 2.2.2.4.12   | 1,536.00 | m'    | 70,748.38           | 108,669,508.73      |
| 3  | Penyambungan tiang pancang (2 sambungan per titik)                                                                | 2.2.2.4.19   | 128.00   | titik | 76,637.00           | 9,809,536.00        |
| 4  | PDA Test                                                                                                          |              | 2.00     | ttk   | 3,500,000.00        | 7,000,000.00        |
| 5  | Pre-boring (Ø 40 cm, tinggi 8m, 12 titik)                                                                         | 2.2.2.3.10   | 96.00    | m'    | 70,748.00           | 6,791,808.00        |
| 6  | Bobok tiang pancang                                                                                               | 2.2.2.4.21   | 64.00    | titik | 22,935.00           | 1,467,840.00        |
| 7  | Pengisi Spun Pile                                                                                                 |              |          |       |                     |                     |
|    | Beton Ready Mix fc'25 Mpa                                                                                         | 2.2.1.6.6    | 6.28     | m3    | 1,267,005.00        | 7,956,791.40        |
|    | Penulangan BjTS Semi Mekanis Kolom                                                                                | 2.2.1.1.4a   | 184.32   | Kg    | 13,687.00           | 2,522,760.47        |
|    |                                                                                                                   |              |          |       | Sub Jumlah          | 855,862,404.59      |
| A2 | PEKERJAAN TANAH                                                                                                   |              |          |       |                     |                     |
| 1  | Penggalian Tanah biasa sedalam 1 - 2 m                                                                            | 1.2.1.1.4    | 93.64    | m3    | 126,720.00          | 11,865,934.08       |
| 2  | Pengurugan tanah kembali                                                                                          | 1.3.1.2      | 39.43    | m3    | 213,840.00          | 8,431,925.04        |
| 3  | Pengurugan tanah biasa                                                                                            | 1.3.1.4      | 736.23   | m3    | 129,360.00          | 95,238,971.52       |
| 4  | Pemadatan Tanah menggunakan baby roller 2 ton                                                                     | 1.3.3.4      | 205.84   | m3    | 3,867.00            | 795,983.28          |
| 5  | Pengecoran lantai kerja tebal 6 cm                                                                                | 2.2.1.4.1    | 17.86    | m3    | 790,729.00          | 14,120,601.26       |

|    |                                         |            |          |    |              |                |
|----|-----------------------------------------|------------|----------|----|--------------|----------------|
|    |                                         |            |          |    |              |                |
|    |                                         |            |          |    | Sub Jumlah   | 130,453,415.18 |
| A3 | PONDASI PILE CAP                        |            |          |    |              |                |
|    | 1 Pekerjaan Pile Cap PC-01              |            |          |    |              |                |
|    | Beton Ready Mix fc'25 Mpa               | 2.2.1.6.6  | 54.21    | m3 | 1,267,005.00 | 68,681,807.04  |
|    | Penulangan BjTS Semi Mekanis Pile Cap   | 2.2.1.1.4a | 3,537.05 | Kg | 13,687.00    | 48,411,547.82  |
|    | Bekisting untuk Pile Cap (3 kali pakai) | 2.2.1.3.1  | 98.56    | m2 | 148,206.00   | 14,607,183.36  |
|    | 2 Pekerjaan Pile Cap PC-02              |            |          |    |              |                |
|    | Beton Ready Mix fc'25 Mpa               | 2.2.1.6.6  | 7.74     | m3 | 1,267,005.00 | 9,811,686.72   |
|    | Penulangan BjTS Semi Mekanis Pile Cap   | 2.2.1.1.4a | 642.14   | Kg | 13,687.00    | 8,789,001.24   |
|    | Bekisting untuk Pile Cap (3 kali pakai) | 2.2.1.3.1  | 45.76    | m2 | 148,206.00   | 6,781,906.56   |
|    |                                         |            |          |    | Sub Jumlah   | 157,083,132.75 |
| B  | PEKERJAAN LANTAI 1                      |            |          |    |              |                |
| B1 | PEKERJAAN TIE BEAM                      |            |          |    |              |                |
|    | 1 Pekerjaan Tie Beam TB-01              |            |          |    |              |                |
|    | Beton Ready Mix fc'25 Mpa               | 2.2.1.6.6  | 25.99    | m3 | 1,267,005.00 | 32,931,993.96  |
|    | Penulangan BjTS Semi Mekanis Sloof      | 2.2.1.1.2a | 2,731.96 | kg | 13,672.00    | 37,351,377.62  |
|    | Bekisting untuk Sloof (3 kali pakai)    | 2.2.1.3.2  | 8.04     | m2 | 156,090.00   | 1,254,963.60   |
|    | 2 Pekerjaan Tie Beam TB-02              |            |          |    |              |                |
|    | Beton Ready Mix fc'25 Mpa               | 2.2.1.6.6  | 9.32     | m3 | 1,267,005.00 | 11,802,151.58  |
|    | Penulangan BjTS Semi Mekanis Balok      | 2.2.1.1.2a | 1,773.96 | kg | 13,672.00    | 24,253,578.93  |
|    | Bekisting untuk Balok (3 kali pakai)    | 2.2.1.3.2  | 6.90     | m2 | 156,090.00   | 1,077,021.00   |
|    | 3 Pekerjaan Tie Beam TB-02              |            |          |    |              |                |
|    | Beton Ready Mix fc'25 Mpa               | 2.2.1.6.6  | 5.24     | m3 | 1,267,005.00 | 6,639,106.20   |
|    | Penulangan BjTS Semi Mekanis Balok      | 2.2.1.1.2a | 1,119.97 | kg | 13,672.00    | 15,312,235.84  |
|    | Bekisting untuk Balok (3 kali pakai)    | 2.2.1.3.2  | 41.92    | m2 | 156,090.00   | 6,543,292.80   |
|    |                                         |            |          |    | Sub Jumlah   | 137,165,721.51 |
| B2 | PEKERJAAN KOLOM                         |            |          |    |              |                |
|    | 1 Pekerjaan Kolom K-01                  |            |          |    |              |                |
|    | Beton Ready Mix fc'25 Mpa               | 2.2.1.6.6  | 26.46    | m3 | 1,267,005.00 | 33,530,020.32  |
|    | Penulangan BjTS Semi Mekanis Kolom      | 2.2.1.1.4a | 4,224.63 | Kg | 13,687.00    | 57,822,493.81  |
|    | Bekisting untuk Kolom (3 kali pakai)    | 2.2.1.3.3  | 86.01    | m2 | 158,623.00   | 13,642,846.98  |
|    | 2 Pekerjaan Kolom K-02                  |            |          |    |              |                |
|    | Beton Ready Mix fc'25 Mpa               | 2.2.1.6.6  | 2.76     | m3 | 1,267,005.00 | 3,494,906.59   |
|    | Penulangan BjTS Semi Mekanis Kolom      | 2.2.1.1.4a | 732.73   | Kg | 13,687.00    | 10,028,891.03  |
|    | Bekisting untuk Kolom (3 kali pakai)    | 2.2.1.3.3  | 13.79    | m2 | 158,623.00   | 2,187,728.42   |
|    |                                         |            |          |    | Sub Jumlah   | 120,706,887.16 |
| B3 | PEKERJAAN PELAT                         |            |          |    |              |                |
|    | 1 Pekerjaan Pelat PL-01                 |            |          |    |              |                |
|    | Beton Ready Mix fc'25 Mpa               | 2.2.1.6.6  | 44.98    | m3 | 1,267,005.00 | 56,994,826.22  |
|    | Penulangan BjTS Semi Mekanis Pelat      | 2.2.1.1.2a | 5,375.85 | kg | 13,672.00    | 73,498,660.49  |
|    | Bekisting untuk Pelat (3 kali pakai)    | 2.2.1.3.5  | 48.22    | m2 | 204,655.00   | 9,868,464.10   |
|    |                                         |            |          |    | Sub Jumlah   | 140,361,950.81 |
| B4 | PEKERJAAN BALOK                         |            |          |    |              |                |
|    | 1 Pekerjaan Balok B-01                  |            |          |    |              |                |
|    | Beton Ready Mix fc'25 Mpa               | 2.2.1.6.6  | 25.99    | m3 | 1,267,005.00 | 32,931,993.96  |
|    | Penulangan BjTS Semi Mekanis Balok      | 2.2.1.1.4a | 5,683.47 | Kg | 13,687.00    | 77,789,710.35  |
|    | Bekisting untuk Balok (3 kali pakai)    | 2.2.1.3.4  | 120.60   | m2 | 162,203.00   | 19,561,681.80  |
|    | 2 Pekerjaan Balok B-02                  |            |          |    |              |                |
|    | Beton Ready Mix fc'25 Mpa               | 2.2.1.6.6  | 10.35    | m3 | 1,267,005.00 | 13,113,501.75  |
|    | Penulangan BjTS Semi Mekanis Balok      | 2.2.1.1.4a | 1,971.07 | Kg | 13,687.00    | 26,977,987.03  |
|    | Bekisting untuk Balok (3 kali pakai)    | 2.2.1.3.4  | 8.97     | m2 | 162,203.00   | 1,454,960.91   |
|    | 3 Pekerjaan Balok B-03                  |            |          |    |              |                |
|    | Beton Ready Mix fc'25 Mpa               | 2.2.1.6.6  | 5.16     | m3 | 1,267,005.00 | 6,537,745.80   |
|    | Penulangan BjTS Semi Mekanis Balok      | 2.2.1.1.4a | 833.27   | Kg | 13,687.00    | 11,404,936.54  |
|    | Bekisting untuk Balok (3 kali pakai)    | 2.2.1.3.4  | 54.18    | m2 | 162,203.00   | 8,788,158.54   |
|    |                                         |            |          |    | Sub Jumlah   | 198,560,676.67 |
| B5 | PEKERJAAN PIT LIFT                      |            |          |    |              |                |
|    | 1 Pekerjaan Pelat Pit Lift              |            |          |    |              |                |
|    | Beton Ready Mix fc'25 Mpa               | 2.2.1.6.6  | 4.36     | m3 | 1,267,005.00 | 5,519,073.78   |
|    | Penulangan BjTS Semi Mekanis Pit Lift   | 2.2.1.1.2a | 730.69   | kg | 13,672.00    | 9,990,002.17   |
|    | Bekisting untuk Pelat (3 kali pakai)    | 2.2.1.3.5  | 3.74     | m2 | 204,655.00   | 765,409.70     |
|    | 2 Pekerjaan Dinding Pit Lift            |            |          |    |              |                |
|    | Beton Ready Mix fc'25 Mpa               | 2.2.1.6.6  | 3.69     | m3 | 1,267,005.00 | 4,669,546.93   |

|    |                                       |            |          |    |              |                |
|----|---------------------------------------|------------|----------|----|--------------|----------------|
|    | Penulangan BjTS Semi Mekanis Pit Lift | 2.2.1.1.2a | 618.22   | kg | 13,672.00    | 8,452,284.89   |
|    | Bekisting untuk Pelat (3 kali pakai)  | 2.2.1.3.5  | 35.46    | m2 | 204,655.00   | 7,257,066.30   |
|    |                                       |            |          |    | Sub Jumlah   | 36,653,383.76  |
| B6 | PEKERJAAN TANGGA                      |            |          |    |              |                |
|    | 1 Pekerjaan Tangga 1                  |            |          |    |              |                |
|    | Beton Ready Mix fc'25 Mpa             | 2.2.1.6.6  | 5.08     | m3 | 1,267,005.00 | 6,440,724.89   |
|    | Penulangan BjTS Semi Mekanis Tangga   | 2.2.1.1.4a | 1,101.22 | Kg | 13,687.00    | 15,072,356.11  |
|    | Bekisting untuk Tangga (3 kali pakai) | 2.2.1.3.7  | 23.29    | m2 | 168,165.00   | 3,915,991.09   |
|    |                                       |            |          |    | Sub Jumlah   | 25,429,072.09  |
| C  | PEKERJAAN LANTAI 2                    |            |          |    |              |                |
| C1 | PEKERJAAN PELAT                       |            |          |    |              |                |
|    | 1 Pekerjaan Pelat PL-01               |            |          |    |              |                |
|    | Beton Ready Mix fc'25 Mpa             | 2.2.1.6.6  | 46.88    | m3 | 1,267,005.00 | 59,399,155.09  |
|    | Penulangan BjTS Semi Mekanis Pelat    | 2.2.1.1.2a | 5,378.80 | kg | 13,672.00    | 73,539,017.53  |
|    | Bekisting untuk Pelat (3 kali pakai)  | 2.2.1.3.5  | 48.41    | m2 | 204,655.00   | 9,907,348.55   |
|    |                                       |            |          |    | Sub Jumlah   | 142,845,521.17 |
| C2 | PEKERJAAN KOLOM                       |            |          |    |              |                |
|    | 1 Pekerjaan Kolom K-01                |            |          |    |              |                |
|    | Beton Ready Mix fc'25 Mpa             | 2.2.1.6.6  | 23.94    | m3 | 1,267,005.00 | 30,327,031.68  |
|    | Penulangan BjTS Semi Mekanis Kolom    | 2.2.1.1.4a | 3,821.07 | Kg | 13,687.00    | 52,298,942.41  |
|    | Bekisting untuk Kolom (3 kali pakai)  | 2.2.1.3.3  | 155.58   | m2 | 158,623.00   | 24,679,200.83  |
|    | 2 Pekerjaan Kolom K-02                |            |          |    |              |                |
|    | Beton Ready Mix fc'25 Mpa             | 2.2.1.6.6  | 2.39     | m3 | 1,267,005.00 | 3,032,703.17   |
|    | Penulangan BjTS Semi Mekanis Kolom    | 2.2.1.1.4a | 635.83   | Kg | 13,687.00    | 8,702,564.38   |
|    | Bekisting untuk Kolom (3 kali pakai)  | 2.2.1.3.3  | 11.97    | m2 | 158,623.00   | 1,898,400.06   |
|    |                                       |            |          |    | Sub Jumlah   | 120,938,842.53 |
| C3 | PEKERJAAN BALOK                       |            |          |    |              |                |
|    | 1 Pekerjaan Balok B-01                |            |          |    |              |                |
|    | Beton Ready Mix fc'25 Mpa             | 2.2.1.6.6  | 25.99    | m3 | 1,267,005.00 | 32,931,993.96  |
|    | Penulangan BjTS Semi Mekanis Balok    | 2.2.1.1.4a | 5,683.47 | Kg | 13,687.00    | 77,789,710.35  |
|    | Bekisting untuk Balok (3 kali pakai)  | 2.2.1.3.4  | 120.60   | m2 | 162,203.00   | 19,561,681.80  |
|    | 2 Pekerjaan Balok B-02                |            |          |    |              |                |
|    | Beton Ready Mix fc'25 Mpa             | 2.2.1.6.6  | 10.35    | m3 | 1,267,005.00 | 13,113,501.75  |
|    | Penulangan BjTS Semi Mekanis Balok    | 2.2.1.1.4a | 1,971.07 | Kg | 13,687.00    | 26,977,987.03  |
|    | Bekisting untuk Balok (3 kali pakai)  | 2.2.1.3.4  | 8.97     | m2 | 162,203.00   | 1,454,960.91   |
|    | 3 Pekerjaan Balok B-03                |            |          |    |              |                |
|    | Beton Ready Mix fc'25 Mpa             | 2.2.1.6.6  | 5.16     | m3 | 1,267,005.00 | 6,537,745.80   |
|    | Penulangan BjTS Semi Mekanis Balok    | 2.2.1.1.4a | 833.27   | Kg | 13,687.00    | 11,404,936.54  |
|    | Bekisting untuk Balok (3 kali pakai)  | 2.2.1.3.4  | 54.18    | m2 | 162,203.00   | 8,788,158.54   |
|    |                                       |            |          |    | Sub Jumlah   | 198,560,676.67 |
| C4 | PEKERJAAN TANGGA                      |            |          |    |              |                |
|    | 1 Pekerjaan Tangga 2                  |            |          |    |              |                |
|    | Beton Ready Mix fc'25 Mpa             | 2.2.1.6.6  | 4.98     | m3 | 1,267,005.00 | 6,309,019.72   |
|    | Penulangan BjTS Semi Mekanis Tangga   | 2.2.1.1.4a | 1,079.95 | Kg | 13,687.00    | 14,781,313.61  |
|    | Bekisting untuk Tangga (3 kali pakai) | 2.2.1.3.7  | 23.18    | m2 | 168,165.00   | 3,898,510.34   |
|    |                                       |            |          |    | Sub Jumlah   | 24,988,843.67  |
| D  | PEKERJAAN LANTAI 3                    |            |          |    |              |                |
| D1 | PEKERJAAN PELAT                       |            |          |    |              |                |
|    | 1 Pekerjaan Pelat PL-01               |            |          |    |              |                |
|    | Beton Ready Mix fc'25 Mpa             | 2.2.1.6.6  | 46.88    | m3 | 1,267,005.00 | 59,399,155.09  |
|    | Penulangan BjTS Semi Mekanis Pelat    | 2.2.1.1.2a | 5,378.80 | kg | 13,672.00    | 73,539,017.53  |
|    | Bekisting untuk Pelat (3 kali pakai)  | 2.2.1.3.5  | 48.41    | m2 | 204,655.00   | 9,907,348.55   |
|    |                                       |            |          |    | Sub Jumlah   | 142,845,521.17 |
| D2 | PEKERJAAN KOLOM                       |            |          |    |              |                |
|    | 1 Pekerjaan Kolom K-01                |            |          |    |              |                |
|    | Beton B0                              | 2.2.1.4.1  | 12.47    | m3 | 790,729.00   | 9,863,553.55   |
|    | Penulangan BjTS Semi Mekanis Kolom    | 2.2.1.1.4a | 2,812.23 | Kg | 13,687.00    | 38,490,969.74  |
|    | Bekisting untuk Kolom (3 kali pakai)  | 2.2.1.3.3  | 88.70    | m2 | 158,623.00   | 14,070,494.59  |
|    | 2 Pekerjaan Kolom K-02                |            |          |    |              |                |
|    | Beton B0                              | 2.2.1.4.1  | 1.13     | m3 | 790,729.00   | 895,026.16     |
|    | Penulangan BjTS Semi Mekanis Kolom    | 2.2.1.1.4a | 635.83   | Kg | 13,687.00    | 8,702,564.38   |
|    | Bekisting untuk Kolom (3 kali pakai)  | 2.2.1.3.3  | 12.94    | m2 | 158,623.00   | 2,051,947.13   |

|  |  |  |  |  |            |               |
|--|--|--|--|--|------------|---------------|
|  |  |  |  |  |            |               |
|  |  |  |  |  | Sub Jumlah | 74,074,555.54 |
|  |  |  |  |  |            |               |

REKAP ANALISA HARGA SATUAN PEKERJAAN

| NO         | URAIAN PEKERJAAN                                                                                                                        | SATUAN | HARGA SATUAN     | KETERANGAN |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------|------------------|------------|
| 1.1.1.2    | Pembuatan 1 m' pagar sementara dari seng gelombang rangka kayu tinggi 2 meter                                                           | m'     | Rp 232,404.00    |            |
| 1.1.2.3    | Pembuatan 1 m2 kantor sementara/rumah jaga/gudang semen dan peralatan lantai plesteran, dinding setengah tembok                         | m2     | Rp 1,479,095.00  |            |
| 1.1.3.1    | 1 m3 Pembersihan dan pengupasan permukaan tanah (striping) s.d. tanaman Ø 2 cm                                                          | m2     | Rp 14,080.00     |            |
| 1.1.3.4    | Tebas tebang 1 batang pohon/tumbuhan Ø >15 s.d. 30 cm                                                                                   | btg    | Rp 18,054.00     |            |
| 1.1.3.10   | Gali dan cabut 1 tunggul pohon tanaman keras Ø > 30 cm s.d. 50 cm (termasuk pembuangan sisa tunggul tanpa menutup kembali bekas lubang) | tgl    | Rp 64,803.00     |            |
| 1.1.4.2    | Pasangan 1 m' bouwplank                                                                                                                 | m'     | Rp 81,094.00     |            |
| 1.2.1.1.4  | Penggalian 1 m3 tanah biasa sedalam > 1 s.d. 2 m untuk volume s.d 200 m3 secara manual                                                  | m3     | Rp 126,720.00    |            |
| 1.3.1.2    | 1 m3 urukan pasir uruk untuk volume s.d 200 m3 tanpa pemadatan secara manual                                                            | m3     | Rp 213,840.00    |            |
| 1.3.1.4    | 1 m3 urukan tanah biasa atau tanah liat berpasir tanpa pemadatan secara manual                                                          | m3     | Rp 129,360.00    |            |
| 1.3.3.4    | 1 m3 Pemadatan pasir menggunakan mesin baby roller 2 Ton                                                                                | m3     | Rp 3,867.00      |            |
| 1.6.2      | Bongkaran 1 m3 pasangan batu dengan jack hammer untuk bangunan gedung                                                                   | m3     | Rp 33,660.00     |            |
| 2.2.1.1.2a | 1 kg penulangan slab untuk BjTS dia. ≥ 12 mm, cara semi mekanis (untuk bangunan gedung)                                                 | kg     | Rp 13,672.00     |            |
| 2.2.1.1.4a | 1 kg penulangan kolom, balok, ring balk, sloof, dan shearwall untuk BjTPS dia. ≥ 12 mm, cara semi mekanis (untuk bangunan gedung)       | Kg     | Rp 13,687.00     |            |
| 2.2.1.3.1  | Pemasangan 1 m2 bekisting untuk pondasi telapak (3 kali pakai)                                                                          | m2     | Rp 148,206.00    |            |
| 2.2.1.3.2  | Pemasangan 1 m2 bekisting untuk sloof (3 kali pakai)                                                                                    | m2     | Rp 156,090.00    |            |
| 2.2.1.3.3  | Pemasangan 1 m2 bekisting untuk kolom (3 kali pakai)                                                                                    | m2     | Rp 158,623.00    |            |
| 2.2.1.3.4  | Pemasangan 1 m2 bekisting untuk balok (3 kali pakai)                                                                                    | m2     | Rp 162,203.00    |            |
| 2.2.1.3.5  | Pemasangan 1 m2 bekisting untuk plat lantai (3 kali pakai)                                                                              | m2     | Rp 204,655.00    |            |
| 2.2.1.3.7  | Pemasangan 1 m2 bekisting untuk tangga (3 kali pakai)                                                                                   | m2     | Rp 168,165.00    |            |
| 2.2.1.4.1  | 1 m3 beton mutu rendah f'c 7,5 MPa, slump (100 ± 25) mm, agregat maks 19 mm secara manual                                               | m3     | Rp 790,729.00    |            |
| 2.2.1.6.6  | Pengecoran 1 M3 Beton Menggunakan Ready Mixed F'c 25 Mpa                                                                                | m3     | Rp 1,267,005.00  |            |
| 2.2.2.3.10 | Pengeboran 1 m' lubang bored pile Ø 40 cm pada tanah sedang (manual)                                                                    | m'     | Rp 70,748.00     |            |
| 2.2.2.4.12 | Per m' penetrasi Spun Pile Diameter 40 cm secara mekanis                                                                                | m'     | Rp 15,898.00     |            |
| 2.2.2.4.19 | Per titik Pengelasan Tiang Beton tebal 10 mm                                                                                            | titik  | Rp 76,637.00     |            |
| 2.2.2.4.20 | Pengadaan 1 titik tiang pancang Ø 40 cm, L = 24 m                                                                                       | titik  | Rp 11,119,440.00 |            |
| 2.2.2.4.21 | Bobok 1 titik Tiang Pancang                                                                                                             | titik  | Rp 22,935.00     |            |
|            |                                                                                                                                         |        |                  |            |

HARGA SATUAN UPAH & MATERIAL

| NO                                 | Kode | UPAH - MATERIAL - ALAT                     | SATUAN | HARGA SATUAN    | KETERANGAN                                                |
|------------------------------------|------|--------------------------------------------|--------|-----------------|-----------------------------------------------------------|
| HARGA SATUAN UPAH & MATERIAL       |      |                                            |        |                 |                                                           |
| NO                                 | Kode | UPAH - MATERIAL - ALAT                     | SATUAN | HARGA SATUAN    | KETERANGAN                                                |
| 1                                  |      | 2                                          | 3      | 4               | 5                                                         |
| I. UPAH                            |      |                                            |        |                 |                                                           |
| 1                                  | L.01 | Pekerja                                    | OH     | Rp 120,000.00   |                                                           |
| 2                                  | L.02 | Tukang batu                                | OH     | Rp 130,000.00   |                                                           |
| 3                                  | L.02 | Tukang kayu                                | OH     | Rp 140,000.00   |                                                           |
| 4                                  | L.03 | Kepala tukang                              | OH     | Rp 150,000.00   |                                                           |
| 5                                  | L.04 | Mandor                                     | OH     | Rp 160,000.00   |                                                           |
| II. MATERIAL                       |      |                                            |        |                 |                                                           |
| MATERIAL TANAH DAN BATUAN          |      |                                            |        |                 |                                                           |
| 1                                  |      | Bata merah                                 | buah   | Rp 750.00       | Lokal                                                     |
| 2                                  |      | Batu split 2/3                             | m3     | Rp 325,000.00   | Quarry Mojokerto, Pasuruan                                |
| 3                                  |      | Koral Beton                                | m3     | Rp 325,000.00   | Quarry Mojokerto                                          |
| 4                                  |      | Kerikil                                    | kg     | Rp 240.74       | Quarry Lumajang, Pasuruan                                 |
| 5                                  |      | Pasir Beton                                | kg     | Rp 231.03       | Pasir Lumajang, Pasir Mojokerto                           |
| 6                                  |      | Pasir Beton                                | m3     | Rp 335,000.00   | Pasir Lumajang                                            |
| 7                                  |      | Pasir pasang                               | m3     | Rp 335,000.00   | Pasir Pasuruan, Pasir Gempol                              |
| 8                                  |      | Pasir urug (quarry - lokasi pekerjaan)     | m3     | Rp 130,000.00   | Quarry Bangkalan, Sampang, Pasuruan                       |
| 9                                  |      | Tanah biasa (quarry)                       | m3     | Rp 80,000.00    | Quarry Bangkalan, Sampang                                 |
| MATERIAL KAYU DAN BAMBU            |      |                                            |        |                 |                                                           |
| 1                                  |      | Dolken kayu ø 8-10 panjang 400 cm          | m'     | Rp 5,500.00     | Lokal                                                     |
| 2                                  |      | Dolken kayu ø 8-10 panjang 400 cm          | batang | Rp 22,000.00    | Lokal                                                     |
| 3                                  |      | Kayu                                       | m3     | Rp 2,500,000.00 | Meranti, Kamper                                           |
| 4                                  |      | Kayu balok 6/12 kelas II                   | m3     | Rp 3,500,000.00 | Meranti, Kamper                                           |
| 5                                  |      | Kaso 5/7                                   | m3     | Rp 3,500,000.00 | Meranti, Kamper                                           |
| 6                                  |      | Kayu papan 3/20 cm                         | m3     | Rp 3,500,000.00 | Untuk Bowplank                                            |
| 7                                  |      | Kayu papan kelas III                       | m3     | Rp 2,500,000.00 | Untuk Kayu Kruing/Sengon                                  |
| 8                                  |      | Plywood 12 mm                              | lembar | Rp 120,000.00   | Meranti Lokal                                             |
| 9                                  |      | Plywood 4 mm                               | lembar | Rp 68,000.00    | Ukuran 122 x 244 cm                                       |
| MATERIAL BESI DAN BAJA             |      |                                            |        |                 |                                                           |
| 1                                  |      | Baja Tulangan Sirip (BjTS) diameter >12 mm | kg     | Rp 11,647.47    | Krakatau Steel, Master Steel, Gunung Garuda, Lautan steel |
| 2                                  |      | Kawat beton                                | kg     | Rp 22,000.00    | KS Wire                                                   |
| 3                                  |      | Kawat las                                  | kg     | Rp 45,000.00    | Nikko Steel, Kobe Steel                                   |
| 4                                  |      | Paku 12 cm                                 | buah   | Rp 297.10       | Lokal                                                     |
| 5                                  |      | Paku 2 inch                                | kg     | Rp 22,000.00    | Lokal                                                     |
| 6                                  |      | Paku 4 inch                                | kg     | Rp 21,000.00    | Lokal                                                     |
| 7                                  |      | Paku biasa 5 inchi                         | kg     | Rp 20,500.00    | Lokal                                                     |
| MATERIAL PENUTUP ATAP              |      |                                            |        |                 |                                                           |
| 1                                  |      | Seng gelombang                             | lembar | Rp 60,000.00    | Lokal                                                     |
| 2                                  |      | Seng pelat                                 | lembar | Rp 55,000.00    | Lokal                                                     |
| MATERIAL BETON DAN ADUKAN PASANGAN |      |                                            |        |                 |                                                           |
| 1                                  |      | Adukan beton fc 25 MPa ready mix           | m3     | Rp 1,093,350.00 | ABIM, Merak Jaya Beton, Varia                             |
| 2                                  |      | Spun pile ø 40 cm class A2 upper 8 meter   | m1     | Rp 416,000.00   | Waskita Beton Precast,WIKA Beton                          |
| 3                                  |      | Spun pile ø 40 cm class A2 middle 8 meter  | m1     | Rp 468,000.00   | Waskita Beton Precast,WIKA Beton                          |
| 4                                  |      | Spun pile ø 40 cm class A2 bottom 8 meter  | m1     | Rp 415,000.00   | Waskita Beton Precast,WIKA Beton                          |
| 5                                  |      | Semen Portland (PC)                        | kg     | Rp 1,375.00     | Semen Gresik, Dynamix, Tiga Roda                          |
| MATERIAL KUNCI DAN ENGSEL          |      |                                            |        |                 |                                                           |
| 1                                  |      | Kunci tanam                                | buah   | Rp 155,000.00   | Lokal                                                     |
| MATERIAL KACA                      |      |                                            |        |                 |                                                           |
| 1                                  |      | Jendela nako                               | buah   | Rp 115,000.00   | Lokal                                                     |
| 2                                  |      | Kaca polos                                 | m2     | Rp 170,000.00   | Lokal                                                     |
| MATERIAL MINYAK                    |      |                                            |        |                 |                                                           |
| 1                                  |      | Minyak bekisting                           | liter  | Rp 16,500.00    | MBS, Sika Separol, Fosroc Reebof                          |
| MATERIAL ALUMINIUM DAN BESI        |      |                                            |        |                 |                                                           |
| 1                                  |      | Besi Kanal C 75                            | m'     | Rp 15,000.00    | Kencana Truss, Taso, Prima Truss                          |
| MATERIAL LAIN-LAIN                 |      |                                            |        |                 |                                                           |
| 1                                  |      | Air                                        | liter  | Rp 50.00        | Lokal                                                     |
| III SEWA PERALATAN                 |      |                                            |        |                 |                                                           |
| 1                                  |      | Bender baja beton                          | hari   | Rp 100,000.00   |                                                           |
| 2                                  |      | Chainsaw 20"; 5,5HP                        | hari   | Rp 155,000.00   |                                                           |
| 3                                  |      | Cutter baja beton                          | hari   | Rp 100,000.00   |                                                           |
| 4                                  |      | Jack hammer + genset                       | hari   | Rp 100,000.00   |                                                           |
| 5                                  |      | Mata bor auger 40 cm                       | hari   | Rp 150,000.00   |                                                           |
| 6                                  |      | Alat las listrik 500 A                     | jam    | Rp 29,000.00    |                                                           |
| 7                                  |      | Baby Roller 2 ton                          | hari   | Rp 395,000.00   |                                                           |

HARGA SATUAN UPAH & MATERIAL

| NO | Kode | UPAH - MATERIAL - ALAT              | SATUAN | HARGA SATUAN |            | KETERANGAN |
|----|------|-------------------------------------|--------|--------------|------------|------------|
| 8  |      | Stang bor, batang bor dia. 1-1/4"   | hari   | Rp           | 63,000.00  |            |
| 9  |      | Waterpass                           | hari   | Rp           | 50,000.00  |            |
| 10 |      | Hydraulic Static Pile Driver (HSPD) | jam    | Rp           | 520,000.00 |            |
| 11 |      | Service Crane                       | jam    | Rp           | 215,000.00 |            |
| 12 |      | Gerinda                             | jam    | Rp           | 11,500.00  |            |
|    |      |                                     |        |              |            |            |
|    |      |                                     |        |              |            |            |

1.1.1.2 Pembuatan 1 m' pagar sementara dari seng gelombang rangka kayu tinggi 2 meter

| No                        | Uraian                                | Kode | Sat.   | Koefisien | Harga Satuan (Rp) | Jumlah Harga (Rp) |
|---------------------------|---------------------------------------|------|--------|-----------|-------------------|-------------------|
| A                         | TENAGA KERJA                          |      |        |           |                   |                   |
| 1                         | Pekerja                               | L.01 | OH     | 0.250     | 120,000.00        | 30,000.00         |
| 2                         | Tukang kayu                           | L.02 | OH     | 0.125     | 140,000.00        | 17,500.00         |
| 3                         | Tukang batu                           | L.02 | OH     | 0.125     | 130,000.00        | 16,250.00         |
| 4                         | Kepala tukang                         | L.03 | OH     | 0.025     | 150,000.00        | 3,750.00          |
| 5                         | Mandor                                | L.04 | OH     | 0.008     | 160,000.00        | 1,280.00          |
| JUMLAH HARGA TENAGA KERJA |                                       |      |        |           |                   | 40,458.82         |
| B                         | BAHAN                                 |      |        |           |                   |                   |
| 1                         | Besi Kanal C 75                       |      | m1     | 2.0000    | 15,000.00         | 30,000.00         |
| 2                         | Seng gelombang                        |      | lembar | 1.3125    | 60,000.00         | 78,750.00         |
| 3                         | Paku biasa 5 inchi                    |      | kg     | 0.4271    | 20,500.00         | 8,755.55          |
| 4                         | Semen Portland (PC)                   |      | kg     | 13.2030   | 1,375.00          | 18,154.13         |
| 5                         | Pasir beton                           |      | kg     | 61.560    | 231.03            | 14,222.48         |
| 6                         | Kerikil                               |      | kg     | 83.349    | 240.74            | 20,065.50         |
| 7                         | Air                                   |      | liter  | 17.415    | 50.00             | 870.75            |
| JUMLAH HARGA BAHAN        |                                       |      |        |           |                   | 170,818.41        |
| C                         | PERALATAN                             |      |        |           |                   |                   |
| JUMLAH HARGA ALAT         |                                       |      |        |           |                   | 0.00              |
| D                         | Jumlah (A+B+C)                        |      |        |           |                   | 211,277.23        |
| E                         | Biaya Umum dan Keuntungan 10%-15% x D |      |        |           | 10%               | 21,127.72         |
| F                         | Harga Satuan Pekerjaan (D+E)          |      |        |           |                   | 232,404.95        |

1.1.2.3 Pembuatan 1 m2 kantor sementara/rumah jaga/gudang semen dan peralatan lantai plesteran, dinding setengah tembok

| No                        | Uraian                                     | Kode | Sat.   | Koefisien | Harga Satuan (Rp) | Jumlah Harga (Rp) |
|---------------------------|--------------------------------------------|------|--------|-----------|-------------------|-------------------|
| A                         | TENAGA KERJA                               |      |        |           |                   |                   |
| 1                         | Pekerja                                    | L.01 | OH     | 2.000     | 120,000.00        | 240,000.00        |
| 2                         | Tukang kayu                                | L.02 | OH     | 2.000     | 140,000.00        | 280,000.00        |
| 3                         | Tukang batu                                | L.02 | OH     | 1.000     | 130,000.00        | 130,000.00        |
| 4                         | Kepala tukang                              | L.03 | OH     | 0.300     | 150,000.00        | 45,000.00         |
| 5                         | Mandor                                     | L.04 | OH     | 0.100     | 160,000.00        | 16,000.00         |
| JUMLAH HARGA TENAGA KERJA |                                            |      |        |           |                   | 592,500.00        |
| B                         | BAHAN                                      |      |        |           |                   |                   |
| 1                         | Dolken kayu φ 8-10 panjang 400 cm          |      | m'     | 1.250     | 5,500.00          | 6,875.00          |
| 2                         | Kayu                                       |      | m3     | 0.180     | 2,500,000.00      | 450,000.00        |
| 3                         | Paku biasa 5 inchi                         |      | kg     | 0.080     | 20,500.00         | 1,640.00          |
| 4                         | Baja Tulangan Sirip (BjTS) diameter >12 mm |      | kg     | 1.100     | 11,647.47         | 12,812.21         |
| 5                         | Semen Portland (PC)                        |      | kg     | 35.000    | 1,375.00          | 48,125.00         |
| 6                         | Pasir pasang                               |      | m3     | 0.150     | 335,000.00        | 50,250.00         |
| 7                         | Pasir beton                                |      | m3     | 0.100     | 335,000.00        | 33,500.00         |
| 8                         | Koral Beton                                |      | m3     | 0.150     | 325,000.00        | 48,750.00         |
| 9                         | Bata merah                                 |      | buah   | 30.000    | 750.00            | 22,500.00         |
| 10                        | Seng pelat                                 |      | lembar | 0.250     | 55,000.00         | 13,750.00         |
| 11                        | Jendela nako                               |      | buah   | 0.200     | 115,000.00        | 23,000.00         |
| 12                        | Kaca polos                                 |      | m2     | 0.080     | 170,000.00        | 13,600.00         |
| 13                        | Kunci tanam                                |      | buah   | 0.150     | 155,000.00        | 23,250.00         |
| 14                        | Plywood 4 mm                               |      | lembar | 0.060     | 68,000.00         | 4,080.00          |
| JUMLAH HARGA BAHAN        |                                            |      |        |           |                   | 752,132.21        |
| C                         | PERALATAN                                  |      |        |           |                   |                   |
| JUMLAH HARGA ALAT         |                                            |      |        |           |                   | 0.00              |
| D                         | Jumlah (A+B+C)                             |      |        |           |                   | 1,344,632.21      |
| E                         | Biaya Umum dan Keuntungan 10%-15% x D      |      |        |           | 10%               | 134,463.22        |
| F                         | Harga Satuan Pekerjaan (D+E)               |      |        |           |                   | 1,479,095.44      |

1.1.3.1 1 m3 Pembersihan dan pengupasan permukaan tanah (striping) s.d. tanaman Ø 2 cm

| No                        | Uraian                                | Kode | Sat. | Koefisien | Harga Satuan (Rp) | Jumlah Harga (Rp) |
|---------------------------|---------------------------------------|------|------|-----------|-------------------|-------------------|
| A                         | TENAGA KERJA                          |      |      |           |                   |                   |
| 1                         | Pekerja                               | L.01 | OH   | 0.100     | 120,000.00        | 12,000.00         |
| 2                         | Mandor                                | L.04 | OH   | 0.005     | 160,000.00        | 800.00            |
| JUMLAH HARGA TENAGA KERJA |                                       |      |      |           |                   | 12,800.00         |
| B                         | BAHAN                                 |      |      |           |                   |                   |
| JUMLAH HARGA BAHAN        |                                       |      |      |           |                   |                   |
| C                         | PERALATAN                             |      |      |           |                   |                   |
| JUMLAH HARGA ALAT         |                                       |      |      |           |                   | 0.00              |
| D                         | Jumlah (A+B+C)                        |      |      |           |                   | 12,800.00         |
| E                         | Biaya Umum dan Keuntungan 10%-15% x D |      |      |           | 0.10              | 1,280.00          |
| F                         | Harga Satuan Pekerjaan (D+E)          |      |      |           |                   | 14,080.00         |

1.1.3.4      Tebas tebang 1 batang pohon/tumbuhan Ø >15 s.d. 30 cm

| No                        | Uraian                                | Kode | Sat. | Koefisien | Harga Satuan (Rp) | Jumlah Harga (Rp) |
|---------------------------|---------------------------------------|------|------|-----------|-------------------|-------------------|
| A                         | TENAGA KERJA                          |      |      |           |                   |                   |
| 1                         | Pekerja                               | L.01 | OH   | 0.080     | 120,000.00        | 9,600.00          |
| 2                         | Mandor                                | L.04 | OH   | 0.008     | 160,000.00        | 1,280.00          |
| JUMLAH HARGA TENAGA KERJA |                                       |      |      |           |                   | 10,880.00         |
| B                         | BAHAN                                 |      |      |           |                   |                   |
| JUMLAH HARGA BAHAN        |                                       |      |      |           |                   | 0.00              |
| C                         | PERALATAN                             |      |      |           |                   |                   |
| 1                         | Chainsaw 20"; 5,5HP                   |      | hari | 0.0357    | 155,000.00        | 5,533.50          |
| JUMLAH HARGA ALAT         |                                       |      |      |           |                   | 5,533.50          |
| D                         | Jumlah (A+B+C)                        |      |      |           |                   | 16,413.50         |
| E                         | Biaya Umum dan Keuntungan 10%-15% x D |      |      |           | 10%               | 1,641.35          |
| F                         | Harga Satuan Pekerjaan (D+E)          |      |      |           |                   | 18,054.85         |

1.1.3.10      Gali dan cabut 1 tunggul pohon tanaman keras Ø > 30 cm s.d. 50 cm (termasuk pembuangan sisa tunggul tanpa menutup kembali bekas lubang)

| No                        | Uraian                                | Kode | Sat. | Koefisien | Harga Satuan (Rp) | Jumlah Harga (Rp) |
|---------------------------|---------------------------------------|------|------|-----------|-------------------|-------------------|
| A                         | TENAGA KERJA                          |      |      |           |                   |                   |
| 1                         | Pekerja                               | L.01 | OH   | 0.1825    | 120,000.00        | 21,900.00         |
| 2                         | Mandor                                | L.04 | OH   | 0.0182    | 160,000.00        | 2,912.00          |
| JUMLAH HARGA TENAGA KERJA |                                       |      |      |           |                   | 24,812.00         |
| B                         | BAHAN                                 |      |      |           |                   |                   |
| JUMLAH HARGA BAHAN        |                                       |      |      |           |                   | 0.00              |
| C                         | PERALATAN                             |      |      |           |                   |                   |
| 1                         | Chainsaw 20"; 5,5HP                   |      | hari | 0.22      | 155,000.00        | 34,100.00         |
| JUMLAH HARGA ALAT         |                                       |      |      |           |                   | 34,100.00         |
| D                         | Jumlah (A+B+C)                        |      |      |           |                   | 58,912.00         |
| E                         | Biaya Umum dan Keuntungan 10%-15% x D |      |      |           | 10%               | 5,891.20          |
| F                         | Harga Satuan Pekerjaan (D+E)          |      |      |           |                   | 64,803.20         |

1.1.4.2      Pasangan 1 m' bouwplank

| No                        | Uraian                                | Kode | Sat. | Koefisien | Harga Satuan (Rp) | Jumlah Harga (Rp) |
|---------------------------|---------------------------------------|------|------|-----------|-------------------|-------------------|
| A                         | TENAGA KERJA                          |      |      |           |                   |                   |
| 1                         | Pekerja                               | L.01 | OH   | 0.0120    | 120,000.00        | 1,440.00          |
| 2                         | Tukang kayu                           | L.02 | OH   | 0.0060    | 140,000.00        | 840.00            |
| 3                         | Kepala tukang                         | L.03 | OH   | 0.0006    | 150,000.00        | 90.00             |
| 4                         | Mandor                                | L.04 | OH   | 0.0012    | 160,000.00        | 192.00            |
| JUMLAH HARGA TENAGA KERJA |                                       |      |      |           |                   | 2,562.00          |
| B                         | BAHAN                                 |      |      |           |                   |                   |
| 1                         | Kaso 5/7                              |      | m3   | 0.013     | 3,500,000.00      | 45,500.00         |
| 2                         | Kayu papan 3/20 cm                    |      | m3   | 0.007     | 3,500,000.00      | 24,500.00         |
| 3                         | Paku 2 inch                           |      | kg   | 0.020     | 22,000.00         | 440.00            |
| JUMLAH HARGA BAHAN        |                                       |      |      |           |                   | 70,440.00         |
| C                         | PERALATAN                             |      |      |           |                   |                   |
| 1                         | Waterpass                             |      | hari | 0.006     | 120,000.00        | 720.00            |
| JUMLAH HARGA ALAT         |                                       |      |      |           |                   | 720.00            |
| D                         | Jumlah (A+B+C)                        |      |      |           |                   | 73,722.00         |
| E                         | Biaya Umum dan Keuntungan 10%-15% x D |      |      |           | 10%               | 7,372.20          |
| F                         | Harga Satuan Pekerjaan (D+E)          |      |      |           |                   | 81,094.20         |

1.2PEKERJAAN GALIAN TANAH

1.2.1.1.4Penggalian 1 m3 tanah biasa sedalam > 1 s.d. 2 m untuk volume s.d 200 m3 secara manual

| No                        | Uraian                                | Kode | Sat. | Koefisien | Harga Satuan (Rp) | Jumlah Harga (Rp) |
|---------------------------|---------------------------------------|------|------|-----------|-------------------|-------------------|
| A                         | TENAGA KERJA                          |      |      |           |                   |                   |
| 1                         | Pekerja                               | L.01 | OH   | 0.9000    | 120,000.00        | 108,000.00        |
| 2                         | Mandor                                | L.04 | OH   | 0.0450    | 160,000.00        | 7,200.00          |
| JUMLAH HARGA TENAGA KERJA |                                       |      |      |           |                   | 115,200.00        |
| B                         | BAHAN                                 |      |      |           |                   |                   |
| JUMLAH HARGA BAHAN        |                                       |      |      |           |                   | -                 |
| C                         | PERALATAN                             |      |      |           |                   |                   |
| JUMLAH HARGA ALAT         |                                       |      |      |           |                   | -                 |
| D                         | Jumlah (A+B+C)                        |      |      |           |                   | 115,200.00        |
| E                         | Biaya Umum dan Keuntungan 10%-15% x D |      |      |           | 10%               | 11,520.00         |
| F                         | Harga Satuan Pekerjaan (D+E)          |      |      |           |                   | 126,720.00        |

1.3 PEKERJAAN TIMBUNAN DAN PEMADATAN

1.3.1.2 1 m3 urukan pasir uruk untuk volume s.d 200 m3 tanpa pemadatan secara manual

| No                        | Uraian                                  | Kode | Sat. | Koefisien | Harga Satuan | Jumlah Harga (Rp) |
|---------------------------|-----------------------------------------|------|------|-----------|--------------|-------------------|
| A                         | TENAGA KERJA                            |      |      |           |              |                   |
| 1                         | Pekerja                                 | L.01 | OH   | 0.3000    | 120,000.00   | 36,000.00         |
| 2                         | Mandor                                  | L.04 | OH   | 0.0150    | 160,000.00   | 2,400.00          |
| JUMLAH HARGA TENAGA KERJA |                                         |      |      |           |              | 38,400.00         |
| B                         | BAHAN                                   |      |      |           |              |                   |
| 1                         | Pasir urug (quarry - lokasi pekerjaan)  |      | m3   | 1.200     | 130,000.00   | 156,000.00        |
| JUMLAH HARGA BAHAN        |                                         |      |      |           |              | 156,000.00        |
| C                         | PERALATAN                               |      |      |           |              |                   |
| JUMLAH HARGA ALAT         |                                         |      |      |           |              | -                 |
| D                         | Jumlah (A+B+C)                          |      |      |           |              | 194,400.00        |
| E                         | Biaya Umum dan Keuntungan 10% - 15% x D |      |      |           | 10%          | 19,440.00         |
| F                         | Harga Satuan Pekerjaan (D+E)            |      |      |           |              | 213,840.00        |

1.3.1.4 1 m3 urukan tanah biasa atau tanah liat berpasir tanpa pemadatan secara manual

| No                        | Uraian                                  | Kode | Sat. | Koefisien | Harga Satuan | Jumlah Harga (Rp) |
|---------------------------|-----------------------------------------|------|------|-----------|--------------|-------------------|
| A                         | TENAGA KERJA                            |      |      |           |              |                   |
| 1                         | Pekerja                                 | L.01 | OH   | 0.1000    | 120,000.00   | 12,000.00         |
| 2                         | Mandor                                  | L.04 | OH   | 0.0100    | 160,000.00   | 1,600.00          |
| JUMLAH HARGA TENAGA KERJA |                                         |      |      |           |              | 13,600.00         |
| B                         | BAHAN                                   |      |      |           |              |                   |
| 1                         | Tanah biasa (quarry)                    |      | m3   | 1.300     | 80,000.00    | 104,000.00        |
| JUMLAH HARGA BAHAN        |                                         |      |      |           |              | 104,000.00        |
| C                         | PERALATAN                               |      |      |           |              |                   |
| JUMLAH HARGA ALAT         |                                         |      |      |           |              | -                 |
| D                         | Jumlah (A+B+C)                          |      |      |           |              | 117,600.00        |
| E                         | Biaya Umum dan Keuntungan 10% - 15% x D |      |      |           | 10%          | 11,760.00         |
| F                         | Harga Satuan Pekerjaan (D+E)            |      |      |           |              | 129,360.00        |

1.3.3.4 1 m3 Pemadatan pasir menggunakan mesin baby roller 2 Ton

| No                        | Uraian                                  | Kode | Sat. | Koefisien | Harga Satuan | Jumlah Harga (Rp) |
|---------------------------|-----------------------------------------|------|------|-----------|--------------|-------------------|
| A                         | TENAGA KERJA                            |      |      |           |              |                   |
| JUMLAH HARGA TENAGA KERJA |                                         |      |      |           |              | 0.00              |
| B                         | BAHAN                                   |      |      |           |              |                   |
| JUMLAH HARGA BAHAN        |                                         |      |      |           |              | 0.00              |
| C                         | PERALATAN                               |      |      |           |              |                   |
| 1                         | Baby Roller 2 ton                       |      | hari | 0.0089    | 395,000.00   | 3,515.50          |
| JUMLAH HARGA ALAT         |                                         |      |      |           |              | 3,516             |
| D                         | Jumlah (A+B+C)                          |      |      |           |              | 3,515.50          |
| E                         | Biaya Umum dan Keuntungan 10% - 15% x D |      |      |           | 10%          | 351.55            |
| F                         | Harga Satuan Pekerjaan (D+E)            |      |      |           |              | 3,867.05          |

1.6.2 Bongkaran 1 m3 pasangan batu dengan jack hammer untuk bangunan gedung

| No                        | Uraian                                  | Kode | Sat. | Koefisien | Harga Satuan (Rp) | Jumlah Harga (Rp) |
|---------------------------|-----------------------------------------|------|------|-----------|-------------------|-------------------|
| A                         | TENAGA KERJA                            |      |      |           |                   |                   |
| 1                         | Pekerja                                 | L.01 | OH   | 0.200     | 120,000.00        | 24,000.00         |
| 2                         | Mandor                                  | L.02 | OH   | 0.010     | 160,000.00        | 1,600.00          |
| JUMLAH HARGA TENAGA KERJA |                                         |      |      |           |                   | 25,600.00         |
| B                         | BAHAN                                   |      |      |           |                   |                   |
| JUMLAH HARGA BAHAN        |                                         |      |      |           |                   | -                 |
| C                         | PERALATAN                               |      |      |           |                   |                   |
| 1                         | Jack hammer + genset                    |      | hari | 0.050     | 100,000.00        | 5,000.00          |
| JUMLAH HARGA ALAT         |                                         |      |      |           |                   | 5,000.00          |
| D                         | Jumlah (A+B+C)                          |      |      |           |                   | 30,600.00         |
| E                         | Biaya Umum dan Keuntungan 10% - 15% x D |      |      |           | 10%               | 3,060.00          |
| F                         | Harga Satuan Pekerjaan (D+E)            |      |      |           |                   | 33,660.00         |

2.2.2 Struktur Bawah  
2.2.2.3.10 Pengeboran 1 m' lubang bored pile  $\phi$  40 cm pada tanah sedang (manual)

| No                        | Uraian                                  | Kode | Sat. | Koefisien | Harga Satuan (Rp) |
|---------------------------|-----------------------------------------|------|------|-----------|-------------------|
| A                         | TENAGA KERJA                            |      |      |           |                   |
| 1                         | Pekerja                                 | L.01 | OH   | 0.427     | 120,000.00        |
| 2                         | Mandor                                  | L.04 | OH   | 0.043     | 160,000.00        |
| JUMLAH HARGA TENAGA KERJA |                                         |      |      |           |                   |
| B                         | BAHAN                                   |      |      |           |                   |
| JUMLAH HARGA BAHAN        |                                         |      |      |           |                   |
| C                         | PERALATAN                               |      |      |           |                   |
| 1                         | Stang bor, batang bor dia. 1-1/4"       |      | hari | 0.107     | 63,000.00         |
| 2                         | Mata bor auger 40 cm                    |      | hari | 0.107     | 150,000.00        |
| JUMLAH HARGA ALAT         |                                         |      |      |           |                   |
| D                         | Jumlah (A+B+C)                          |      |      |           |                   |
| E                         | Biaya Umum dan Keuntungan 10% - 15% x D |      |      |           | 5%                |
| F                         | Harga Satuan Pekerjaan (D+E)            |      |      |           |                   |

2.2.2.4.12 Per m' penetrasi Spun Pile Diameter 40 cm secara mekanis

| No                        | Uraian                                  | Kode | Sat. | Koefisien | Harga Satuan (Rp) |
|---------------------------|-----------------------------------------|------|------|-----------|-------------------|
| A                         | TENAGA KERJA                            |      |      |           |                   |
| 1                         | Pekerja                                 | L.01 | OJ   | 0.080     | 15,000.00         |
| 3                         | Mandor                                  | L.04 | OJ   | 0.008     | 20,000.00         |
| JUMLAH HARGA TENAGA KERJA |                                         |      |      |           |                   |
| B                         | BAHAN                                   |      |      |           |                   |
| JUMLAH HARGA BAHAN        |                                         |      |      |           |                   |
| C                         | PERALATAN                               |      |      |           |                   |
| 1                         | Hydraulic Static Pile Driver (HSPD)     |      | jam  | 0.030     | 520,000.00        |
| 2                         | Service Crane                           |      | jam  | 0.030     | 215,000.00        |
| JUMLAH HARGA ALAT         |                                         |      |      |           |                   |
| D                         | Jumlah (A+B+C)                          |      |      |           |                   |
| E                         | Biaya Umum dan Keuntungan 10% - 15% x D |      |      |           | 5%                |
| F                         | Harga Satuan Pekerjaan (D+E)            |      |      |           |                   |

2.2.2.4.19 Per titik Pengelasan Tiang Beton tebal 10 mm

| No                        | Uraian                                  | Kode | Sat. | Koefisien | Harga Satuan (Rp) |
|---------------------------|-----------------------------------------|------|------|-----------|-------------------|
| A                         | TENAGA KERJA                            |      |      |           |                   |
| 1                         | Pekerja                                 | L.01 | OJ   | 0.010     | 15,000.00         |
| 2                         | Tukang batu                             | L.02 | OJ   | 0.010     | 16,250.00         |
| 3                         | Mandor                                  | L.04 | OJ   | 0.001     | 20,000.00         |
| JUMLAH HARGA TENAGA KERJA |                                         |      |      |           |                   |
| B                         | BAHAN                                   |      |      |           |                   |
| 1                         | Kawat Las                               |      | kg   | 0.942     | 45,000.00         |
| JUMLAH HARGA BAHAN        |                                         |      |      |           |                   |
| C                         | PERALATAN                               |      |      |           |                   |
| 1                         | Alat Las Listrik 500 A                  |      | jam  | 0.010     | 29,000.00         |
| JUMLAH HARGA ALAT         |                                         |      |      |           |                   |
| D                         | Jumlah (A+B+C)                          |      |      |           |                   |
| E                         | Biaya Umum dan Keuntungan 10% - 15% x D |      |      |           | 5%                |
| F                         | Harga Satuan Pekerjaan (D+E)            |      |      |           |                   |

2.2.2.4.20 Pengadaan 1 titik tiang pancang  $\phi$  40 cm, L = 24 m

| No                        | Uraian                                   | Kode | Sat. | Koefisien | Harga Satuan (Rp) |
|---------------------------|------------------------------------------|------|------|-----------|-------------------|
| A                         | TENAGA KERJA                             |      |      |           |                   |
| JUMLAH HARGA TENAGA KERJA |                                          |      |      |           |                   |
| B                         | BAHAN                                    |      |      |           |                   |
| 1                         | Spun pile $\phi$ 40 cm class A2 upper 8  |      | m1   | 8.000     | 416,000.00        |
| 2                         | Spun pile $\phi$ 40 cm class A2 middle 8 |      | m1   | 8.000     | 468,000.00        |
| 3                         | Spun pile $\phi$ 40 cm class A2 bottom 8 |      | m1   | 8.000     | 415,000.00        |
| JUMLAH HARGA BAHAN        |                                          |      |      |           |                   |
| C                         | PERALATAN                                |      |      |           |                   |
| JUMLAH HARGA ALAT         |                                          |      |      |           |                   |
| D                         | Jumlah (A+B+C)                           |      |      |           |                   |
| E                         | Biaya Umum dan Keuntungan 10% - 15% x D  |      |      |           | 7%                |
| F                         | Harga Satuan Pekerjaan (D+E)             |      |      |           |                   |

2.2.2.4.21 Bobok 1 titik Tiang Pancang

| No | Uraian       | Kode | Sat. | Koefisien | Harga Satuan (Rp) |
|----|--------------|------|------|-----------|-------------------|
| A  | TENAGA KERJA |      |      |           |                   |
| 1  | Pekerja      | L.01 | OJ   | 0.600     | 15,000.00         |

|                           |                                         |      |     |       |            |
|---------------------------|-----------------------------------------|------|-----|-------|------------|
| 2                         | Tukang batu                             | L.02 | OJ  | 0.200 | 16,250.00  |
| 3                         | Mandor                                  | L.04 | OJ  | 0.030 | 20,000.00  |
| JUMLAH HARGA TENAGA KERJA |                                         |      |     |       |            |
| B                         | BAHAN                                   |      |     |       |            |
|                           |                                         |      |     |       |            |
| C                         | PERALATAN                               |      |     |       |            |
| 1                         | Jack Hammer + Genset                    |      | jam | 0.080 | 100,000.00 |
| 2                         | Gerinda                                 |      | jam | 0.020 | 11,500.00  |
| JUMLAH HARGA ALAT         |                                         |      |     |       |            |
| D                         | Jumlah (A+B+C)                          |      |     |       |            |
| E                         | Biaya Umum dan Keuntungan 10% - 15% x D |      |     |       | 10%        |
| F                         | Harga Satuan Pekerjaan (D+E)            |      |     |       |            |

| Jumlah Harga (Rp) |
|-------------------|
|                   |
| 51,216.00         |
| 6,832.00          |
| 44,652.31         |
|                   |
| -                 |
|                   |
| 6,722.10          |
| 16,005.00         |
| 22,727.10         |
| 67,379.41         |
| 3,368.97          |
| <b>70,748.38</b>  |

| Jumlah Harga (Rp) |
|-------------------|
|                   |
| 1,200.00          |
| 160.00            |
| 1,360.00          |
|                   |
|                   |
|                   |
| 15,600.00         |
| 6,450.00          |
| 13,781.25         |
| 15,141.25         |
| 757.06            |
| <b>15,898.31</b>  |

| Jumlah Harga (Rp) |
|-------------------|
|                   |
| 144.00            |
| 156.00            |
| 20.00             |
| 320.00            |
|                   |
| 42,390.00         |
| 42,390            |
|                   |
| 278.40            |
| 278.40            |
| 72,988.40         |
| 3,649.42          |
| <b>76,637.82</b>  |

| Jumlah Harga (Rp)    |
|----------------------|
|                      |
|                      |
|                      |
| 3,328,000.00         |
| 3,744,000.00         |
| 3,320,000.00         |
| 10,392,000.00        |
|                      |
|                      |
| 10,392,000.00        |
| 727,440.00           |
| <b>11,119,440.00</b> |

| Jumlah Harga (Rp) |
|-------------------|
|                   |
| 9,000.00          |

|                  |
|------------------|
| 3,250.00         |
| 600.00           |
| 12,850.00        |
|                  |
|                  |
|                  |
| 8,000.00         |
| 230.00           |
| 8,000.00         |
| 20,850.00        |
| 2,085.00         |
| <b>22,935.00</b> |

2.2.1.1.2a 1 kg penulangan slab untuk BjTS dia. ≥ 12 mm, cara semi mekanis (untuk bangunan gedung)

| No                        | Uraian                                     | Sat. | Koefisien | Harga Satuan (Rp) | Jumlah Harga (Rp) |
|---------------------------|--------------------------------------------|------|-----------|-------------------|-------------------|
| A                         | TENAGA KERJA                               |      |           |                   |                   |
| 1                         | Pekerja                                    | OH   | 0.00080   | 120,000.00        | 96.00             |
| 2                         | Mandor                                     | OH   | 0.00040   | 160,000.00        | 64.00             |
| 3                         | Kepala tukang                              | OH   | 0.00004   | 150,000.00        | 6.00              |
| 4                         | Mandor                                     | OH   | 0.00008   | 160,000.00        | 12.80             |
| JUMLAH HARGA TENAGA KERJA |                                            |      |           |                   | 178.80            |
| B                         | BAHAN                                      |      |           |                   |                   |
| 1                         | Baja Tulangan Sirip (BjTS) diameter >12 mm | kg   | 1.020     | 11,647.47         | 11,880.42         |
| 2                         | Kawat beton                                | kg   | 0.015     | 22,000.00         | 330.00            |
| JUMLAH HARGA BAHAN        |                                            |      |           |                   | 12,210.42         |
| C                         | PERALATAN                                  |      |           |                   |                   |
| 1                         | Cutter baja beton                          | hari | 0.0002    | 100,000.00        | 20.00             |
| 2                         | Bender baja beton                          | hari | 0.0002    | 100,000.00        | 20.00             |
| JUMLAH HARGA ALAT         |                                            |      |           |                   | 40.00             |
| D                         | Jumlah (A+B+C)                             |      |           |                   | 12,429.22         |
| E                         | Biaya Umum dan Keuntungan 10% - 15% x D    |      |           | 10%               | 1,242.92          |
| F                         | Harga Satuan Pekerjaan (D+E)               |      |           |                   | 13,672.14         |

2.2.1.1.4a 1 kg penulangan kolom, balok, ring balk, sloof, dan shearwall untuk BjTPS dia. ≥ 12 mm, cara semi mekanis (untuk bangunan gedung)

| No                        | Uraian                                     | Sat. | Koefisien | Harga Satuan (Rp) | Jumlah Harga (Rp) |
|---------------------------|--------------------------------------------|------|-----------|-------------------|-------------------|
| A                         | TENAGA KERJA                               |      |           |                   |                   |
| 1                         | Pekerja                                    | OH   | 0.00160   | 120,000.00        | 192.00            |
| 2                         | Mandor                                     | OH   | 0.00080   | 160,000.00        | 128.00            |
| 3                         | Kepala tukang                              | OH   | 0.00008   | 150,000.00        | 12.00             |
| 4                         | Mandor                                     | OH   | 0.00016   | 160,000.00        | 25.60             |
| JUMLAH HARGA TENAGA KERJA |                                            |      |           |                   | 357.60            |
| B                         | BAHAN                                      |      |           |                   |                   |
| 1                         | Baja Tulangan Sirip (BjTS) diameter >12 mm | kg   | 1.050     | 11,647.47         | 12,229.84         |
| 2                         | Kawat beton                                | kg   | 0.028     | 22,000.00         | 616.00            |
| JUMLAH HARGA BAHAN        |                                            |      |           |                   | 12,005.46         |
| C                         | PERALATAN                                  |      |           |                   |                   |
| 1                         | Cutter baja beton                          | hari | 0.0004    | 100,000.00        | 40.00             |
| 2                         | Bender baja beton                          | hari | 0.0004    | 100,000.00        | 40.00             |
| JUMLAH HARGA ALAT         |                                            |      |           |                   | 80.00             |
| D                         | Jumlah (A+B+C)                             |      |           |                   | 12,443.06         |
| E                         | Biaya Umum dan Keuntungan 10% - 15% x D    |      |           | 10%               | 1,244.31          |
| F                         | Harga Satuan Pekerjaan (D+E)               |      |           |                   | 13,687.36         |

2.2.1.3.1 Pemasangan 1 m2 bekisting untuk pondasi telapak (3 kali pakai)

| No                        | Uraian                                  | Sat.  | Koefisien | Harga Satuan (Rp) | Jumlah Harga (Rp) |
|---------------------------|-----------------------------------------|-------|-----------|-------------------|-------------------|
| A                         | TENAGA KERJA                            |       |           |                   |                   |
| 1                         | Pekerja                                 | OH    | 0.520     | 120,000.00        | 62,400.00         |
| 2                         | Tukang kayu                             | OH    | 0.260     | 140,000.00        | 36,400.00         |
| 3                         | Kepala tukang                           | OH    | 0.026     | 150,000.00        | 3,900.00          |
| 4                         | Mandor                                  | OH    | 0.009     | 160,000.00        | 1,440.00          |
| JUMLAH HARGA TENAGA KERJA |                                         |       |           |                   | 86,783.33         |
| B                         | BAHAN                                   |       |           |                   |                   |
| 1                         | Kayu papan kelas III                    | m3    | 0.016     | 2,500,000.00      | 40,000.00         |
| 2                         | Paku 4 inch                             | kg    | 0.300     | 21,000.00         | 6,300.00          |
| 3                         | Minyak bekisting                        | liter | 0.100     | 16,500.00         | 1,650.00          |
| JUMLAH HARGA BAHAN        |                                         |       |           |                   | 47,950.00         |
| C                         | PERALATAN                               |       |           |                   |                   |
| JUMLAH HARGA ALAT         |                                         |       |           |                   | -                 |
| D                         | Jumlah (A+B+C)                          |       |           |                   | 134,733.33        |
| E                         | Biaya Umum dan Keuntungan 10% - 15% x D |       |           | 10%               | 13,473.33         |
| F                         | Harga Satuan Pekerjaan (D+E)            |       |           |                   | 148,206.67        |

2.2.1.3.2 Pemasangan 1 m2 bekisting untuk sloof (3 kali pakai)

| No                        | Uraian               | Sat. | Koefisien | Harga Satuan (Rp) | Jumlah Harga (Rp) |
|---------------------------|----------------------|------|-----------|-------------------|-------------------|
| A                         | TENAGA KERJA         |      |           |                   |                   |
| 1                         | Pekerja              | OH   | 0.520     | 120,000.00        | 62,400.00         |
| 2                         | Tukang kayu          | OH   | 0.260     | 150,000.00        | 39,000.00         |
| 3                         | Kepala tukang        | OH   | 0.026     | 150,000.00        | 3,900.00          |
| 4                         | Mandor               | OH   | 0.009     | 160,000.00        | 1,440.00          |
| JUMLAH HARGA TENAGA KERJA |                      |      |           |                   | 88,950.00         |
| B                         | BAHAN                |      |           |                   |                   |
| 1                         | Kayu papan kelas III | buah | 0.018     | 2,500,000.00      | 45,000.00         |
| 2                         | Paku 4 inch          | kg   | 0.300     | 21,000.00         | 6,300.00          |
| 3                         | Minyak Bekisting     | m3   | 0.100     | 16,500.00         | 1,650.00          |
| JUMLAH HARGA BAHAN        |                      |      |           |                   | 52,950.00         |

|                   |                                         |  |  |     |            |
|-------------------|-----------------------------------------|--|--|-----|------------|
| C                 | PERALATAN                               |  |  |     |            |
| JUMLAH HARGA ALAT |                                         |  |  |     | -          |
| D                 | Jumlah (A+B+C)                          |  |  |     | 141,900.00 |
| E                 | Biaya Umum dan Keuntungan 10% - 15% x D |  |  | 10% | 14,190.00  |
| F                 | Harga Satuan Pekerjaan (D+E)            |  |  |     | 156,090.00 |

2.2.1.3.3 Pemasangan 1 m2 bekisting untuk kolom (3 kali pakai)

| No                        | Uraian                                  | Sat.   | Koefisien | Harga Satuan (Rp) | Jumlah Harga (Rp) |
|---------------------------|-----------------------------------------|--------|-----------|-------------------|-------------------|
| A                         | TENAGA KERJA                            |        |           |                   |                   |
| 1                         | Pekerja                                 | OH     | 0.660     | 120,000.00        | 79,200.00         |
| 2                         | Tukang kayu                             | OH     | 0.330     | 140,000.00        | 46,200.00         |
| 3                         | Kepala tukang                           | OH     | 0.033     | 150,000.00        | 4,950.00          |
| 4                         | Mandor                                  | OH     | 0.011     | 160,000.00        | 1,760.00          |
| JUMLAH HARGA TENAGA KERJA |                                         |        |           |                   | 105,688.00        |
| B                         | BAHAN                                   |        |           |                   |                   |
| 1                         | Paku 12 cm                              | kg     | 0.40000   | 297.10            | 118.84            |
| 2                         | Minyak bekisting                        | liter  | 0.20000   | 16,500.00         | 3,300.00          |
| 3                         | Kayu balok 6/12 kelas II                | m3     | 0.00465   | 3,500,000.00      | 16,275.00         |
| 4                         | Plywood 12 mm                           | lembar | 0.12705   | 120,000.00        | 15,246.00         |
| 5                         | Dolken kayu ø 8-10 panjang 400 cm       | batang | 0.65000   | 5,500.00          | 3,575.00          |
| JUMLAH HARGA BAHAN        |                                         |        |           |                   | 38,514.84         |
| C                         | PERALATAN                               |        |           |                   |                   |
| JUMLAH HARGA ALAT         |                                         |        |           |                   | -                 |
| D                         | Jumlah (A+B+C)                          |        |           |                   | 144,202.84        |
| E                         | Biaya Umum dan Keuntungan 10% - 15% x D |        |           | 10%               | 14,420.28         |
| F                         | Harga Satuan Pekerjaan (D+E)            |        |           |                   | 158,623.12        |

2.2.1.3.4 Pemasangan 1 m2 bekisting untuk balok (3 kali pakai)

| No                        | Uraian                                  | Sat.   | Koefisien | Harga Satuan (Rp) | Jumlah Harga (Rp) |
|---------------------------|-----------------------------------------|--------|-----------|-------------------|-------------------|
| A                         | TENAGA KERJA                            |        |           |                   |                   |
| 1                         | Pekerja                                 | OH     | 0.660     | 120,000.00        | 79,200.00         |
| 2                         | Tukang kayu                             | OH     | 0.330     | 140,000.00        | 46,200.00         |
| 3                         | Kepala tukang                           | OH     | 0.033     | 150,000.00        | 4,950.00          |
| 4                         | Mandor                                  | OH     | 0.011     | 160,000.00        | 1,760.00          |
| JUMLAH HARGA TENAGA KERJA |                                         |        |           |                   | 105,688.00        |
| B                         | BAHAN                                   |        |           |                   |                   |
| 1                         | Paku 12 cm                              | kg     | 0.40000   | 297.10            | 118.84            |
| 2                         | Minyak bekisting                        | liter  | 0.20000   | 16,500.00         | 3,300.00          |
| 3                         | Kayu balok 6/12 kelas II                | m3     | 0.00558   | 3,500,000.00      | 19,530.00         |
| 4                         | Plywood 12 mm                           | lembar | 0.12705   | 120,000.00        | 15,246.00         |
| 5                         | Dolken kayu ø 8-10 panjang 400 cm       | batang | 0.65000   | 5,500.00          | 3,575.00          |
| JUMLAH HARGA BAHAN        |                                         |        |           |                   | 41,769.84         |
| C                         | PERALATAN                               |        |           |                   |                   |
| JUMLAH HARGA ALAT         |                                         |        |           |                   | -                 |
| D                         | Jumlah (A+B+C)                          |        |           |                   | 147,457.84        |
| E                         | Biaya Umum dan Keuntungan 10% - 15% x D |        |           | 10%               | 14,745.78         |
| F                         | Harga Satuan Pekerjaan (D+E)            |        |           |                   | 162,203.62        |

2.2.1.3.5 Pemasangan 1 m2 bekisting untuk plat lantai (3 kali pakai)

| No                        | Uraian                                  | Sat.   | Koefisien | Harga Satuan (Rp) | Jumlah Harga (Rp) |
|---------------------------|-----------------------------------------|--------|-----------|-------------------|-------------------|
| A                         | TENAGA KERJA                            |        |           |                   |                   |
| 1                         | Pekerja                                 | OH     | 0.660     | 120,000.00        | 79,200.00         |
| 2                         | Tukang kayu                             | OH     | 0.330     | 140,000.00        | 46,200.00         |
| 3                         | Kepala tukang                           | OH     | 0.033     | 150,000.00        | 4,950.00          |
| 4                         | Mandor                                  | OH     | 0.011     | 160,000.00        | 1,760.00          |
| JUMLAH HARGA TENAGA KERJA |                                         |        |           |                   | 132,110.00        |
| B                         | BAHAN                                   |        |           |                   |                   |
| 1                         | Paku 4 inch                             | kg     | 0.40000   | 21,000.00         | 8,400.00          |
| 2                         | Minyak bekisting                        | liter  | 0.20000   | 16,500.00         | 3,300.00          |
| 3                         | Kayu balok 6/12 kelas II                | m3     | 0.00465   | 3,500,000.00      | 16,275.00         |
| 4                         | Plywood 12 mm                           | lembar | 0.12700   | 120,000.00        | 15,240.00         |
| 5                         | Dolken kayu ø 8-10 panjang 400 cm       | batang | 1.95000   | 5,500.00          | 10,725.00         |
| JUMLAH HARGA BAHAN        |                                         |        |           |                   | 53,940.00         |
| C                         | PERALATAN                               |        |           |                   |                   |
| JUMLAH HARGA ALAT         |                                         |        |           |                   | -                 |
| D                         | Jumlah (A+B+C)                          |        |           |                   | 186,050.00        |
| E                         | Biaya Umum dan Keuntungan 10% - 15% x D |        |           | 10%               | 18,605.00         |
| F                         | Harga Satuan Pekerjaan (D+E)            |        |           |                   | 204,655.00        |

2.2.1.3.7 Pemasangan 1 m2 bekisting untuk tangga (3 kali pakai)

| No | Uraian       | Sat. | Koefisien | Harga Satuan (Rp) | Jumlah Harga (Rp) |
|----|--------------|------|-----------|-------------------|-------------------|
| A  | TENAGA KERJA |      |           |                   |                   |
| 1  | Pekerja      | OH   | 0.660     | 120,000.00        | 79,200.00         |

|                           |                                         |        |       |              |                   |
|---------------------------|-----------------------------------------|--------|-------|--------------|-------------------|
| 2                         | Tukang kayu                             | OH     | 0.330 | 140,000.00   | 46,200.00         |
| 3                         | Kepala tukang                           | OH     | 0.033 | 150,000.00   | 4,950.00          |
| 4                         | Mandor                                  | OH     | 0.011 | 160,000.00   | 1,760.00          |
| JUMLAH HARGA TENAGA KERJA |                                         |        |       |              | 105,688.00        |
| B                         | BAHAN                                   |        |       |              |                   |
| 1                         | Paku 4 inch                             | kg     | 0.400 | 21,000.00    | 8,400.00          |
| 2                         | Minyak bekisting                        | liter  | 0.150 | 16,500.00    | 2,475.00          |
| 3                         | Kayu balok 6/12 kelas II                | m3     | 0.005 | 3,500,000.00 | 17,500.00         |
| 4                         | Plywood 12 mm                           | lembar | 0.127 | 120,000.00   | 15,240.00         |
| 5                         | Dolken kayu $\phi$ 8-10 panjang 400 cm  | batang | 0.650 | 5,500.00     | 3,575.00          |
| JUMLAH HARGA BAHAN        |                                         |        |       |              | 47,190.00         |
| C                         | PERALATAN                               |        |       |              |                   |
| JUMLAH HARGA ALAT         |                                         |        |       |              | -                 |
| D                         | Jumlah (A+B+C)                          |        |       |              | 152,878.00        |
| E                         | Biaya Umum dan Keuntungan 10% - 15% x D |        |       | 10%          | 15,287.80         |
| F                         | Harga Satuan Pekerjaan (D+E)            |        |       |              | <b>168,165.80</b> |

2.2.1.4.1      1 m3 beton mutu rendah f'c 7,5 MPa, slump (100 ± 25) mm, agregat maks 19 mm secara manual

| No                        | Uraian                                  | Sat.  | Koefisien | Harga Satuan (Rp) | Jumlah Harga (Rp) |
|---------------------------|-----------------------------------------|-------|-----------|-------------------|-------------------|
| A                         | TENAGA KERJA                            |       |           |                   |                   |
| 1                         | Pekerja                                 | OH    | 1.650     | 120,000.00        | 198,000.00        |
| 2                         | Tukang batu                             | OH    | 0.275     | 130,000.00        | 35,750.00         |
| 3                         | Kepala Tukang                           | OH    | 0.028     | 150,000.00        | 4,200.00          |
| 4                         | Mandor                                  | OH    | 0.009     | 160,000.00        | 1,440.00          |
| JUMLAH HARGA TENAGA KERJA |                                         |       |           |                   | 159,593.33        |
| B                         | BAHAN                                   |       |           |                   |                   |
| 1                         | Semen Portland (PC)                     | kg    | 250.000   | 1,375.00          | 343,750.00        |
| 2                         | Pasir beton                             | kg    | 888.000   | 231.03            | 205,158.62        |
| 3                         | Batu split 2/3                          | kg    | 1.009     | 240.74            | 242.91            |
| 4                         | Air                                     | liter | 202.000   | 50.00             | 10,100.00         |
| JUMLAH HARGA BAHAN        |                                         |       |           |                   | 559,251.53        |
| C                         | PERALATAN                               |       |           |                   |                   |
| JUMLAH HARGA ALAT         |                                         |       |           |                   | -                 |
| D                         | Jumlah (A+B+C)                          |       |           |                   | 718,844.86        |
| E                         | Biaya Umum dan Keuntungan 10% - 15% x D |       |           | 10%               | 71,884.49         |
| F                         | Harga Satuan Pekerjaan (D+E)            |       |           |                   | <b>790,729.35</b> |

2.2.1.6.6      Pengecoran 1 M3 Beton Menggunakan Ready Mixed F'c 25 Mpa

| No                        | Uraian                                  | Sat. | Koefisien | Harga Satuan (Rp) | Jumlah Harga (Rp)   |
|---------------------------|-----------------------------------------|------|-----------|-------------------|---------------------|
| A                         | TENAGA KERJA                            |      |           |                   |                     |
| 1                         | Pekerja                                 | OH   | 0.400     | 120,000.00        | 48,000.00           |
| 2                         | Tukang batu                             | OH   | 0.100     | 130,000.00        | 13,000.00           |
| 3                         | Kepala Tukang                           | OH   | 0.010     | 150,000.00        | 1,500.00            |
| 4                         | Mandor                                  | OH   | 0.040     | 160,000.00        | 6,400.00            |
| JUMLAH HARGA TENAGA KERJA |                                         |      |           |                   | 68,900.00           |
| B                         | BAHAN                                   |      |           |                   |                     |
| 1                         | Beton Ready Mixed f'c 25 Mpa            | m3   | 1.020     | 1,093,350.00      | 1,115,217.00        |
| JUMLAH HARGA BAHAN        |                                         |      |           |                   | 1,115,217.00        |
| C                         | PERALATAN                               |      |           |                   |                     |
| JUMLAH HARGA ALAT         |                                         |      |           |                   | -                   |
| D                         | Jumlah (A+B+C)                          |      |           |                   | 1,184,117.00        |
| E                         | Biaya Umum dan Keuntungan 10% - 15% x D |      |           | 7%                | 82,888.19           |
| F                         | Harga Satuan Pekerjaan (D+E)            |      |           |                   | <b>1,267,005.19</b> |

## Backup Volume Struktur Pembangunan Gedung Computer Based Test (CBT) UTM

| No. | Uraian Pekerjaan                         | Volume                                                                                                                                                                                                                                                                                                             | Sat.                                              | Detail Analisa                   |                      |                      |                      |               |                        |                        |
|-----|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------|----------------------|----------------------|----------------------|---------------|------------------------|------------------------|
|     |                                          |                                                                                                                                                                                                                                                                                                                    |                                                   | Panjang                          | Lebar                | Tinggi               | Qty                  | BJ            | Area                   | Volume                 |
|     |                                          |                                                                                                                                                                                                                                                                                                                    |                                                   | 1                                | 2                    | 3                    | 4                    | 5             | 6                      | 7                      |
| I   | PEKERJAAN PERSIAPAN                      |                                                                                                                                                                                                                                                                                                                    |                                                   |                                  |                      |                      |                      |               |                        |                        |
| A   | KESELAMATAN DAN KESEJAHTERAAN KERJA (K3) |                                                                                                                                                                                                                                                                                                                    |                                                   |                                  |                      |                      |                      |               |                        |                        |
|     | 1                                        | Penyiapan RKK<br>Pembuatan dokumen SMK (RKK, RMPK, RKPPL, RMLLP), Pembuatan Prosedur dan Instruksi Kerja, Penyusunan Laporan SMK                                                                                                                                                                                   | 1.00                                              | set                              |                      |                      |                      |               |                        |                        |
|     | 2                                        | Sosialisasi, Promosi dan Pelatihan<br>Spanduk (Banner) K3; Uk. 4x1 m<br>Papan Informasi K3                                                                                                                                                                                                                         | 1.00<br>2.00                                      | Bh<br>Bh                         |                      |                      |                      |               |                        |                        |
|     | 3                                        | Alat Pelindung Kerja dan Alat Pelindung Diri<br>Helm Pelindung (Safety Helmet) -APD<br>Sarung Tangan (Safety Gloves) - APD<br>Sepatu Keselamatan (Safety Shoes) - APD<br>Rompi Keselamatan (Safety Vest) -APD<br>Penunjang Seluruh Tubuh (Full Body Harmes) - APD<br>Pelindung Pernafasan dan Mulut (Masker) - APD | 40.00<br>40.00<br>40.00<br>40.00<br>5.00<br>40.00 | Bh<br>Bh<br>Bh<br>Bh<br>Bh<br>Bh |                      |                      |                      |               |                        |                        |
|     | 4                                        | Fasilitas Sarana, Prasarana, dan Alat Kesehatan<br>Peralatan P3K (kotak P3K, obat luka, perban dll)                                                                                                                                                                                                                | 1.00                                              | Ls                               |                      |                      |                      |               |                        |                        |
|     | 5                                        | Rambu-rambu yang diperlukan<br>Rambu Petunjuk<br>Rambu Larangan<br>Rambu Peringatan                                                                                                                                                                                                                                | 5.00<br>5.00<br>5.00                              | bh<br>bh<br>bh                   |                      |                      |                      |               |                        |                        |
|     | 6                                        | Kegiatan dan Peralatan terkait dengan Pengendalian<br>Alat Pemadam Api Ringan (APAR) 6 kg<br>Lampu Rotari                                                                                                                                                                                                          | 5.00<br>1.00                                      | Bh<br>Bh                         |                      |                      |                      |               |                        |                        |
| B   | PEKERJAAN PERSIAPAN                      |                                                                                                                                                                                                                                                                                                                    |                                                   |                                  |                      |                      |                      |               |                        |                        |
|     | 1                                        | Pengukuran dan Stake Out                                                                                                                                                                                                                                                                                           | 1.00                                              | Ls                               |                      |                      | 1.00                 |               |                        | 1.00                   |
|     | 2                                        | Pembersihan lahan dan Striping                                                                                                                                                                                                                                                                                     | 1085.88                                           | m2                               | 36.50                | 29.75                |                      |               |                        | 1085.88                |
|     | 3                                        | Pemasangan Bowplank                                                                                                                                                                                                                                                                                                | 158.40                                            | m'                               |                      |                      |                      |               |                        |                        |
|     |                                          |                                                                                                                                                                                                                                                                                                                    |                                                   |                                  | 28.80<br>14.40       |                      | 3.00<br>5.00         |               |                        | 86.40<br>72.00         |
|     | 4                                        | Pembuatan Pagar Proyek tinggi 2 meter                                                                                                                                                                                                                                                                              | 132.50                                            | m1                               |                      |                      |                      |               | 132.50                 | 132.50                 |
|     | 5                                        | Pembuatan Direksi Keet / Gudang Material                                                                                                                                                                                                                                                                           | 12.00                                             | m2                               | 4.00                 | 3.00                 |                      |               |                        | 12.00                  |
|     | 6                                        | Tebang batang pohon Ø15-30 cm                                                                                                                                                                                                                                                                                      | 30.00                                             | btg                              |                      |                      | 30.00                |               |                        | 30.00                  |
|     | 7                                        | Gali dan cabut tunggu pohon                                                                                                                                                                                                                                                                                        | 35.00                                             | tgl                              |                      |                      | 35.00                |               |                        | 35.00                  |
|     | 8                                        | Pembongkaran Bangunan                                                                                                                                                                                                                                                                                              | 20.00                                             | m3                               |                      | 2.00                 |                      |               | 10.00                  | 20.00                  |
|     | 9                                        | Mobilisasi dan Demobilisasi                                                                                                                                                                                                                                                                                        | 1.00                                              | ls                               |                      |                      | 1.00                 |               |                        | 1.00                   |
| II  | PEKERJAAN STRUKTUR                       |                                                                                                                                                                                                                                                                                                                    |                                                   |                                  |                      |                      |                      |               |                        |                        |
| A   | PEKERJAAN PONDASI                        |                                                                                                                                                                                                                                                                                                                    |                                                   |                                  |                      |                      |                      |               |                        |                        |
| A1  | PONDASI TIANG PANCANG                    |                                                                                                                                                                                                                                                                                                                    |                                                   |                                  |                      |                      |                      |               |                        |                        |
|     | 1                                        | Pengadaan tiang pancang (Spun pile Ø 40 cm, tinggi 24<br><br>Spun Pile PC-01<br>Spun Pile PC-02                                                                                                                                                                                                                    | 64.00                                             | titik                            |                      |                      | 14.00<br>4.00        | 4.00<br>2.00  |                        | 56.00<br>8.00          |
|     | 2                                        | Pemancangan tiang pancang (Spun pile Ø 40 cm, tinggi                                                                                                                                                                                                                                                               | 1536.00                                           | m1                               | 64.00                | 24.00                |                      |               |                        | 1536.00                |
|     | 3                                        | Penyambungan tiang pancang (2 sambungan per titik)                                                                                                                                                                                                                                                                 | 128.00                                            | titik                            |                      |                      | 128.00               | 1.00          |                        | 128.00                 |
|     | 4                                        | PDA Test                                                                                                                                                                                                                                                                                                           | 2.00                                              | titik                            |                      |                      |                      | 2.00          |                        | 2.00                   |
|     | 5                                        | Pre-boring (Ø 40 cm, tinggi 8m, 12 titik)                                                                                                                                                                                                                                                                          | 96.00                                             | m1                               |                      | 8.00                 |                      | 12.00         |                        | 96.00                  |
|     | 6                                        | Bobok tiang pancang                                                                                                                                                                                                                                                                                                | 64.00                                             | titik                            |                      |                      | 64.00                |               |                        | 64.00                  |
|     | 7                                        | Pengisi Spun Pile<br>Beton Ready Mix fc'25 Mpa<br>Penulangan BjTS Semi Mekanis Kolom                                                                                                                                                                                                                               | 6.28<br>184.32                                    | m3<br>kg                         | 3.14                 | 0.13                 | 2.00                 | 64.00         |                        | 6.28                   |
|     |                                          |                                                                                                                                                                                                                                                                                                                    |                                                   |                                  |                      |                      |                      | 25.28<br>4.07 | 6.28<br>6.28           | 158.76<br>25.56        |
| A2  | PEKERJAAN TANAH                          |                                                                                                                                                                                                                                                                                                                    |                                                   |                                  |                      |                      |                      |               |                        |                        |
|     | 1                                        | Penggalian Tanah biasa sedalam 1 - 2 m<br><br>Pile Cap PC1<br>Pile Cap PC1 (2)<br>Pile Cap PC2                                                                                                                                                                                                                     | 93.64                                             | m3                               | 2.45<br>4.81<br>2.45 | 2.45<br>4.75<br>1.23 | 1.20<br>1.65<br>1.20 | 13.00         |                        | 93.64<br>37.66<br>7.20 |
|     | 2                                        | Pengurugan tanah kembali<br><br>Pile Cap PC1<br>Pit Lift<br>Pile Cap PC2                                                                                                                                                                                                                                           | 39.43                                             | m3                               |                      |                      |                      |               | 39.43<br>25.56<br>3.33 | 39.43<br>25.56<br>3.33 |

|                       |   |                                               |         |    |       |       |      |        |        |         |
|-----------------------|---|-----------------------------------------------|---------|----|-------|-------|------|--------|--------|---------|
|                       |   |                                               |         |    |       |       |      |        |        |         |
|                       | 3 | Pengurugan tanah biasa                        | 736.23  | m3 |       |       |      |        |        |         |
|                       |   |                                               |         |    |       |       | 1.00 |        | 382.95 | 382.95  |
|                       |   |                                               |         |    |       |       | 0.60 |        | 576.97 | 346.18  |
|                       |   |                                               |         |    |       |       | 0.40 |        | 17.75  | 7.10    |
|                       | 4 | Pemadatan Tanah menggunakan baby roller 2 ton | 205.84  | m3 |       |       |      |        |        |         |
|                       |   |                                               |         |    | 31.00 | 16.60 | 0.40 |        |        | 205.84  |
|                       | 5 | Pengecoran lantai kerja tebal 6 cm            | 17.86   | m3 |       |       |      |        |        |         |
|                       |   | Pile Cap PC1                                  |         |    | 2.20  | 2.20  | 0.06 |        |        | 0.29    |
|                       |   | Pile Cap PC2                                  |         |    | 2.20  | 1.10  | 0.06 |        |        | 0.15    |
|                       |   | Tie Beam                                      |         |    | 6.70  | 0.30  | 0.06 |        |        | 0.12    |
|                       |   | Pelat                                         |         |    |       |       | 0.05 |        | 346.03 | 17.30   |
| A3 PONDASI PILE CAP   |   |                                               |         |    |       |       |      |        |        |         |
|                       | 1 | Pekerjaan Pile Cap PC-01                      |         |    |       |       |      |        |        |         |
|                       |   | Beton Ready Mix fc'25 Mpa                     | 54.21   | m3 |       |       |      |        |        |         |
|                       |   |                                               |         |    | 2.20  | 2.20  | 0.80 | 14.00  |        | 54.21   |
|                       |   | Penulangan BjTS Semi Mekanis Pile Cap         | 3537.05 | kg |       |       |      |        |        |         |
|                       |   | Besi D19                                      |         |    |       |       |      | 65.25  | 54.21  | 3537.05 |
|                       |   | Bekisting untuk Pile Cap (3 kali pakai)       | 98.56   | m2 |       |       |      |        |        |         |
|                       |   |                                               |         |    | 2.20  |       | 0.80 | 14.00  | 4.00   | 98.56   |
|                       | 2 | Pekerjaan Pile Cap PC-02                      |         |    |       |       |      |        |        |         |
|                       |   | Beton Ready Mix fc'25 Mpa                     | 7.74    | m3 |       |       |      |        |        |         |
|                       |   |                                               |         |    | 2.20  | 1.10  | 0.80 | 4.00   |        | 7.74    |
|                       |   | Penulangan BjTS Semi Mekanis Pile Cap         | 642.14  | kg |       |       |      |        |        |         |
|                       |   | Besi D19                                      |         |    |       |       |      | 82.92  | 7.74   | 642.14  |
|                       |   | Bekisting untuk Pile Cap (3 kali pakai)       | 45.76   | m2 |       |       |      |        |        |         |
|                       |   |                                               |         |    | 2.20  | 1.10  | 0.80 | 4.00   | 2.00   | 45.76   |
| B PEKERJAAN LANTAI 1  |   |                                               |         |    |       |       |      |        |        |         |
| B1 PEKERJAAN TIE BEAM |   |                                               |         |    |       |       |      |        |        |         |
|                       | 1 | Pekerjaan Tie Beam TB-01                      |         |    |       |       |      |        |        |         |
|                       |   | Beton Ready Mix fc'25 Mpa                     | 25.99   | m3 |       |       |      |        |        |         |
|                       |   |                                               |         |    | 6.70  | 0.30  | 0.60 | 12.00  |        | 14.47   |
|                       |   |                                               |         |    | 6.40  | 0.30  | 0.60 | 10.00  |        | 11.52   |
|                       |   | Penulangan BjTS Semi Mekanis Sloof            | 2731.96 | kg |       |       |      |        |        |         |
|                       |   | Besi D22                                      |         |    |       |       |      | 141.90 | 14.47  | 2053.56 |
|                       |   | Besi D10                                      |         |    |       |       |      | 46.88  | 14.47  | 678.40  |
|                       |   | Bekisting untuk Sloof (3 kali pakai)          | 8.04    | m2 |       |       |      |        |        |         |
|                       |   |                                               |         |    | 6.70  |       | 0.60 | 2.00   |        | 8.04    |
|                       | 2 | Pekerjaan Tie Beam TB-02                      |         |    |       |       |      |        |        |         |
|                       |   | Beton Ready Mix fc'25 Mpa                     | 9.32    | m3 |       |       |      |        |        |         |
|                       |   |                                               |         |    | 6.90  | 0.30  | 0.50 | 9.00   |        | 9.32    |
|                       |   | Penulangan BjTS Semi Mekanis Balok            | 1773.96 | kg |       |       |      |        |        |         |
|                       |   | Besi D22                                      |         |    |       |       |      | 146.21 | 9.32   | 1361.94 |
|                       |   | Besi D10                                      |         |    |       |       |      | 44.23  | 9.32   | 412.02  |
|                       |   | Bekisting untuk Balok (3 kali pakai)          | 6.90    | m2 |       |       |      |        |        |         |
|                       |   |                                               |         |    | 6.90  |       | 0.50 |        |        | 6.90    |
|                       | 3 | Pekerjaan Tie Beam TB-03                      |         |    |       |       |      |        |        |         |
|                       |   | Beton Ready Mix fc'25 Mpa                     | 5.24    | m3 |       |       |      |        |        |         |
|                       |   |                                               |         |    | 52.40 | 0.25  | 0.40 |        |        | 5.24    |
|                       |   | Penulangan BjTS Semi Mekanis Balok            | 1119.97 | kg |       |       |      |        |        |         |
|                       |   | Besi D22                                      |         |    |       |       |      | 159.64 | 5.24   | 836.50  |
|                       |   | Besi D10                                      |         |    |       |       |      | 54.10  | 5.24   | 283.48  |
|                       |   | Bekisting untuk Balok (3 kali pakai)          | 41.92   | m2 |       |       |      |        |        |         |
|                       |   |                                               |         |    | 52.40 |       | 0.40 |        |        | 41.92   |
| B2 PEKERJAAN KOLOM    |   |                                               |         |    |       |       |      |        |        |         |
|                       | 1 | Pekerjaan Kolom K-01                          |         |    |       |       |      |        |        |         |
|                       |   | Beton Ready Mix fc'25 Mpa                     | 26.46   | m3 |       |       |      |        |        |         |
|                       |   |                                               |         |    | 0.50  | 0.80  | 4.11 | 15.00  |        | 24.66   |
|                       |   |                                               |         |    | 0.50  | 0.80  | 4.51 | 1.00   |        | 1.80    |
|                       |   | Penulangan BjTS Semi Mekanis Kolom            | 4224.63 | kg |       |       |      |        |        |         |
|                       |   | Besi D22                                      |         |    |       |       |      | 125.32 | 26.46  | 3316.52 |
|                       |   | Besi D10                                      |         |    |       |       |      | 34.31  | 26.46  | 908.10  |
|                       |   | Bekisting untuk Kolom (3 kali pakai)          | 86.01   | m2 |       |       |      |        |        |         |
|                       |   |                                               |         |    | 0.50  | 0.80  | 4.11 | 15.00  |        | 80.15   |
|                       |   |                                               |         |    | 0.50  | 0.80  | 4.51 | 1.00   |        | 5.86    |
|                       | 2 | Pekerjaan Kolom K-02                          |         |    |       |       |      |        |        |         |
|                       |   | Beton Ready Mix fc'25 Mpa                     | 2.76    | m3 |       |       |      |        |        |         |
|                       |   |                                               |         |    | 0.40  | 0.40  | 4.11 | 2.00   |        | 1.32    |
|                       |   |                                               |         |    | 0.40  | 0.40  | 4.51 | 2.00   |        | 1.44    |

|    |                                       |         |    |       |      |      |       |        |       |         |
|----|---------------------------------------|---------|----|-------|------|------|-------|--------|-------|---------|
|    | Penulangan BjTS Semi Mekanis Kolom    | 732.73  | kg |       |      |      |       |        |       |         |
|    | Besi D22                              |         |    |       |      |      |       | 234.98 | 2.76  | 648.17  |
|    | Besi D10                              |         |    |       |      |      |       | 30.66  | 2.76  | 84.57   |
|    | Bekisting untuk Kolom (3 kali pakai)  | 13.79   | m2 |       |      |      |       |        |       |         |
|    |                                       |         |    | 0.40  | 0.40 | 4.11 | 2.00  |        |       | 6.58    |
|    |                                       |         |    | 0.40  | 0.40 | 4.51 | 2.00  |        |       | 7.22    |
| B3 | PEKERJAAN PELAT                       |         |    |       |      |      |       |        |       |         |
|    | 1 Pekerjaan Pelat PL-01               |         |    |       |      |      |       |        |       |         |
|    | Beton Ready Mix fc'25 Mpa             | 44.98   | m3 |       |      |      |       |        |       |         |
|    |                                       |         |    |       |      | 0.13 | 28.00 |        | 11.03 | 40.15   |
|    |                                       |         |    |       |      | 0.13 | 1.00  |        | 6.81  | 0.89    |
|    |                                       |         |    |       |      | 0.13 | 1.00  |        | 16.89 | 2.20    |
|    |                                       |         |    |       |      | 0.13 | 1.00  |        | 4.34  | 0.56    |
|    |                                       |         |    |       |      | 0.13 | 1.00  |        | 9.15  | 1.19    |
|    | Penulangan BjTS Semi Mekanis Pelat    | 5375.85 | kg |       |      |      |       |        |       |         |
|    | Besi D10                              |         |    |       |      |      |       | 119.51 | 44.98 | 5375.85 |
|    | Bekisting untuk Pelat (3 kali pakai)  | 48.22   | m2 |       |      |      |       |        |       |         |
|    |                                       |         |    |       |      |      |       |        | 48.22 | 48.22   |
| B4 | PEKERJAAN BALOK                       |         |    |       |      |      |       |        |       |         |
|    | 1 Pekerjaan Balok B-01                |         |    |       |      |      |       |        |       |         |
|    | Beton Ready Mix fc'25 Mpa             | 25.99   | m3 |       |      |      |       |        |       |         |
|    |                                       |         |    | 6.70  | 0.30 | 0.60 | 12.00 |        |       | 14.47   |
|    |                                       |         |    | 6.40  | 0.30 | 0.60 | 10.00 |        |       | 11.52   |
|    | Penulangan BjTS Semi Mekanis Balok    | 5683.47 | kg |       |      |      |       |        |       |         |
|    | Besi D22                              |         |    |       |      |      |       | 177.37 | 25.99 | 4610.30 |
|    | Besi D10                              |         |    |       |      |      |       | 41.29  | 25.99 | 1073.17 |
|    | Bekisting untuk Balok (3 kali pakai)  | 120.60  | m2 |       |      |      |       |        |       |         |
|    |                                       |         |    | 6.70  | 0.30 | 0.60 | 12.00 |        |       | 120.60  |
|    | 2 Pekerjaan Balok B-02                |         |    |       |      |      |       |        |       |         |
|    | Beton Ready Mix fc'25 Mpa             | 10.35   | m3 |       |      |      |       |        |       |         |
|    |                                       |         |    | 6.90  | 0.30 | 0.50 | 10.00 |        |       | 10.35   |
|    | Penulangan BjTS Semi Mekanis Balok    | 1971.07 | kg |       |      |      |       |        |       |         |
|    | Besi D22                              |         |    |       |      |      |       | 146.21 | 10.35 | 1513.26 |
|    | Besi D10                              |         |    |       |      |      |       | 44.23  | 10.35 | 457.80  |
|    | Bekisting untuk Balok (3 kali pakai)  | 8.97    | m2 |       |      |      |       |        |       |         |
|    |                                       |         |    | 6.90  | 0.30 | 0.50 |       |        |       | 8.97    |
|    | 3 Pekerjaan Balok B-03                |         |    |       |      |      |       |        |       |         |
|    | Beton Ready Mix fc'25 Mpa             | 5.16    | m3 |       |      |      |       |        |       |         |
|    |                                       |         |    | 51.60 | 0.25 | 0.40 |       |        |       | 5.16    |
|    | Penulangan BjTS Semi Mekanis Balok    | 833.27  | kg |       |      |      |       |        |       |         |
|    | Besi D22                              |         |    |       |      |      |       | 159.64 | 5.16  | 823.72  |
|    | Besi D10                              |         |    |       |      |      |       | 1.85   | 5.16  | 9.54    |
|    | Bekisting untuk Balok (3 kali pakai)  | 54.18   | m2 |       |      |      |       |        |       |         |
|    |                                       |         |    | 51.60 | 0.25 | 0.40 |       |        |       | 54.18   |
| B5 | PEKERJAAN PIT LIFT                    |         |    |       |      |      |       |        |       |         |
|    | 1 Pekerjaan Pelat Pit Lift            |         |    |       |      |      |       |        |       |         |
|    | Beton Ready Mix fc'25 Mpa             | 4.36    | m3 |       |      |      |       |        |       |         |
|    |                                       |         |    | 4.40  | 4.95 | 0.20 |       |        |       | 4.36    |
|    | Penulangan BjTS Semi Mekanis Pit Lift | 730.69  | kg |       |      |      |       |        |       |         |
|    | Besi D13                              |         |    |       |      |      |       | 167.74 | 4.36  | 730.69  |
|    | Bekisting untuk Pelat (3 kali pakai)  | 3.74    | m2 |       |      |      |       |        |       |         |
|    |                                       |         |    | 4.40  | 4.95 | 0.20 |       |        |       | 3.74    |
|    | 2 Pekerjaan Dinding Pit Lift          |         |    |       |      |      |       |        |       |         |
|    | Beton Ready Mix fc'25 Mpa             | 3.69    | m3 |       |      |      |       |        |       |         |
|    |                                       |         |    | 1.80  | 9.85 | 0.20 |       |        |       | 3.55    |
|    |                                       |         |    | 0.30  | 2.33 | 0.20 |       |        |       | 0.14    |
|    | Penulangan BjTS Semi Mekanis Pit Lift | 618.22  | kg |       |      |      |       |        |       |         |
|    | Besi D13                              |         |    |       |      |      |       | 167.74 | 3.69  | 618.22  |
|    | Bekisting untuk Pelat (3 kali pakai)  | 35.46   | m2 |       |      |      |       |        |       |         |
|    |                                       |         |    | 1.80  | 9.85 |      |       |        |       | 35.46   |
| B6 | PEKERJAAN TANGGA                      |         |    |       |      |      |       |        |       |         |
|    | 1 Pekerjaan Tangga 1                  |         |    |       |      |      |       |        |       |         |
|    | Beton Ready Mix fc'25 Mpa             | 5.08    | m3 |       |      |      |       |        |       |         |
|    |                                       |         |    | 6.77  | 1.65 | 0.15 | 1.00  |        |       | 1.68    |
|    |                                       |         |    | 6.83  | 1.50 | 0.15 | 1.00  |        |       | 1.54    |
|    |                                       |         |    | 0.30  | 0.18 | 1.65 | 11.00 |        |       | 0.98    |
|    |                                       |         |    | 0.30  | 0.18 | 1.50 | 11.00 |        |       | 0.89    |
|    | Penulangan BjTS Semi Mekanis Tangga   | 1101.22 | kg |       |      |      |       |        |       |         |
|    | Plat Besi D13                         |         |    |       |      |      | 3.21  | 223.66 |       | 718.46  |
|    | Anak Tangga Besi D13                  |         |    |       |      |      | 1.87  | 204.56 |       | 382.75  |
|    | Bekisting untuk Tangga (3 kali pakai) | 23.29   | m2 |       |      |      |       |        |       |         |

|                      |                                      |         |    |       |      |      |       |        |       |         |
|----------------------|--------------------------------------|---------|----|-------|------|------|-------|--------|-------|---------|
|                      |                                      |         |    | 6.77  | 1.65 |      |       |        |       | 11.17   |
|                      |                                      |         |    | 6.83  | 1.50 |      |       |        |       | 10.25   |
|                      |                                      |         |    | 0.30  | 0.18 | 1.65 | 11.00 |        |       | 0.98    |
|                      |                                      |         |    | 0.30  | 0.18 | 1.50 | 11.00 |        |       | 0.89    |
| C PEKERJAAN LANTAI 2 |                                      |         |    |       |      |      |       |        |       |         |
| C1                   | PEKERJAAN PELAT                      |         |    |       |      |      |       |        |       |         |
|                      | 1 Pekerjaan Pelat PL-01              |         |    |       |      |      |       |        |       |         |
|                      | Beton Ready Mix fc'25 Mpa            | 46.88   | m3 |       |      |      |       |        |       |         |
|                      |                                      |         |    |       |      | 0.13 | 28.00 |        | 11.03 | 40.15   |
|                      |                                      |         |    |       |      | 0.13 | 1.00  |        | 6.95  | 0.90    |
|                      |                                      |         |    |       |      | 0.13 | 1.00  |        | 17.10 | 2.22    |
|                      |                                      |         |    |       |      | 0.13 | 1.00  |        | 8.12  | 1.06    |
|                      |                                      |         |    |       |      | 0.13 | 1.00  |        | 5.21  | 0.68    |
|                      |                                      |         |    |       |      | 0.10 | 1.00  |        | 14.10 | 1.41    |
|                      |                                      |         |    |       |      | 0.10 | 1.00  |        | 4.63  | 0.46    |
|                      | Penulangan BjTS Semi Mekanis Pelat   | 5378.80 | kg |       |      |      |       |        |       |         |
|                      | Besi D10                             |         |    |       |      |      |       | 119.51 | 45.01 | 5378.80 |
|                      | Bekisting untuk Pelat (3 kali pakai) | 48.41   | m2 |       |      |      |       |        | 48.41 | 48.41   |
|                      |                                      |         |    |       |      |      |       |        |       |         |
| C2                   | PEKERJAAN KOLOM                      |         |    |       |      |      |       |        |       |         |
|                      | 1 Pekerjaan Kolom K-01               |         |    |       |      |      |       |        |       |         |
|                      | Beton Ready Mix fc'25 Mpa            | 23.94   | m3 |       |      |      |       |        |       |         |
|                      |                                      |         |    | 0.50  | 0.80 | 3.74 | 16.00 |        |       | 23.94   |
|                      | Penulangan BjTS Semi Mekanis Kolom   | 3821.07 | kg |       |      |      |       |        |       |         |
|                      | Besi D22                             |         |    |       |      |      |       | 125.32 | 23.94 | 2999.71 |
|                      | Besi D10                             |         |    |       |      |      |       | 34.31  | 23.94 | 821.36  |
|                      | Bekisting untuk Kolom (3 kali pakai) | 155.58  | m2 |       |      |      |       |        |       |         |
|                      |                                      |         |    | 0.50  | 0.80 | 3.74 | 16.00 |        |       | 155.58  |
|                      | 2 Pekerjaan Kolom K-02               |         |    |       |      |      |       |        |       |         |
|                      | Beton Ready Mix fc'25 Mpa            | 2.39    | m3 |       |      |      |       |        |       |         |
|                      |                                      |         |    | 0.40  | 0.40 | 3.74 | 4.00  |        |       | 2.39    |
|                      | Penulangan BjTS Semi Mekanis Kolom   | 635.83  | kg |       |      |      |       |        |       |         |
|                      | Besi D22                             |         |    |       |      |      |       | 234.98 | 2.39  | 562.45  |
|                      | Besi D10                             |         |    |       |      |      |       | 30.66  | 2.39  | 73.38   |
|                      | Bekisting untuk Kolom (3 kali pakai) | 11.97   | m2 |       |      |      |       |        |       |         |
|                      |                                      |         |    | 0.40  | 0.40 | 3.74 | 4.00  |        |       | 11.97   |
| C3                   | PEKERJAAN BALOK                      |         |    |       |      |      |       |        |       |         |
|                      | 1 Pekerjaan Balok B-01               |         |    |       |      |      |       |        |       |         |
|                      | Beton Ready Mix fc'25 Mpa            | 25.99   | m3 |       |      |      |       |        |       |         |
|                      |                                      |         |    | 6.70  | 0.30 | 0.60 | 12.00 |        |       | 14.47   |
|                      |                                      |         |    | 6.40  | 0.30 | 0.60 | 10.00 |        |       | 11.52   |
|                      | Penulangan BjTS Semi Mekanis Balok   | 5683.47 | kg |       |      |      |       |        |       |         |
|                      | Besi D22                             |         |    |       |      |      |       | 177.37 | 25.99 | 4610.30 |
|                      | Besi D10                             |         |    |       |      |      |       | 41.29  | 25.99 | 1073.17 |
|                      | Bekisting untuk Balok (3 kali pakai) | 120.60  | m2 |       |      |      |       |        |       |         |
|                      |                                      |         |    | 6.70  | 0.30 | 0.60 | 12.00 |        |       | 120.60  |
|                      | 2 Pekerjaan Balok B-02               |         |    |       |      |      |       |        |       |         |
|                      | Beton Ready Mix fc'25 Mpa            | 10.35   | m3 |       |      |      |       |        |       |         |
|                      |                                      |         |    | 6.90  | 0.30 | 0.50 | 10.00 |        |       | 10.35   |
|                      | Penulangan BjTS Semi Mekanis Balok   | 1971.07 | kg |       |      |      |       |        |       |         |
|                      | Besi D22                             |         |    |       |      |      |       | 146.21 | 10.35 | 1513.26 |
|                      | Besi D10                             |         |    |       |      |      |       | 44.23  | 10.35 | 457.80  |
|                      | Bekisting untuk Balok (3 kali pakai) | 8.97    | m2 |       |      |      |       |        |       |         |
|                      |                                      |         |    | 6.90  | 0.30 | 0.50 |       |        |       | 8.97    |
|                      | 3 Pekerjaan Balok B-03               |         |    |       |      |      |       |        |       |         |
|                      | Beton Ready Mix fc'25 Mpa            | 5.16    | m3 |       |      |      |       |        |       |         |
|                      |                                      |         |    | 51.60 | 0.25 | 0.40 |       |        |       | 5.16    |
|                      | Penulangan BjTS Semi Mekanis Balok   | 833.27  | kg |       |      |      |       |        |       |         |
|                      | Besi D22                             |         |    |       |      |      |       | 159.64 | 5.16  | 823.72  |
|                      | Besi D10                             |         |    |       |      |      |       | 1.85   | 5.16  | 9.54    |
|                      | Bekisting untuk Balok (3 kali pakai) | 54.18   | m2 |       |      |      |       |        |       |         |
|                      |                                      |         |    | 51.60 | 0.25 | 0.40 |       |        |       | 54.18   |
|                      |                                      |         |    |       |      |      |       |        |       |         |
| C4                   | PEKERJAAN TANGGA                     |         |    |       |      |      |       |        |       |         |
|                      | 1 Pekerjaan Tangga 2                 |         |    |       |      |      |       |        |       |         |
|                      | Beton Ready Mix fc'25 Mpa            | 4.98    | m3 |       |      |      |       |        |       |         |
|                      |                                      |         |    | 6.77  | 1.65 | 0.15 | 1.00  |        |       | 1.68    |
|                      |                                      |         |    | 6.83  | 1.50 | 0.15 | 1.00  |        |       | 1.54    |
|                      |                                      |         |    | 0.30  | 0.17 | 1.65 | 11.00 |        |       | 0.93    |
|                      |                                      |         |    | 0.30  | 0.17 | 1.50 | 11.00 |        |       | 0.84    |
|                      | Penulangan BjTS Semi Mekanis Tangga  | 1079.95 | kg |       |      |      |       |        |       |         |
|                      | Plat Besi D13                        |         |    |       |      |      | 3.21  | 223.66 |       | 718.46  |
|                      | Anak Tangga Besi D13                 |         |    |       |      |      | 1.77  | 204.56 |       | 361.49  |

|    |                                                                                      |         |    |      |      |       |       |                 |               |                   |
|----|--------------------------------------------------------------------------------------|---------|----|------|------|-------|-------|-----------------|---------------|-------------------|
|    | Bekisting untuk Tangga (3 kali pakai)                                                | 23.18   | m2 |      | 6.77 | 1.65  |       |                 |               | 11.17             |
|    |                                                                                      |         |    |      | 6.83 | 1.50  |       |                 |               | 10.25             |
|    |                                                                                      |         |    |      | 0.30 | 0.17  | 1.65  | 11.00           |               | 0.93              |
|    |                                                                                      |         |    |      | 0.30 | 0.17  | 1.50  | 11.00           |               | 0.84              |
| D  | <b>PEKERJAAN LANTAI 3</b>                                                            |         |    |      |      |       |       |                 |               |                   |
| D1 | <b>PEKERJAAN PELAT</b>                                                               |         |    |      |      |       |       |                 |               |                   |
| 1  | Pekerjaan Pelat PL-01                                                                |         |    |      |      |       |       |                 |               |                   |
|    | Beton Ready Mix fc'25 Mpa                                                            | 46.88   | m3 |      |      |       |       |                 |               |                   |
|    |                                                                                      |         |    |      | 0.13 | 28.00 |       | 11.03           |               | 40.15             |
|    |                                                                                      |         |    |      | 0.13 | 1.00  |       | 6.95            |               | 0.90              |
|    |                                                                                      |         |    |      | 0.13 | 1.00  |       | 17.10           |               | 2.22              |
|    |                                                                                      |         |    |      | 0.13 | 1.00  |       | 8.12            |               | 1.06              |
|    |                                                                                      |         |    |      | 0.13 | 1.00  |       | 5.21            |               | 0.68              |
|    |                                                                                      |         |    |      | 0.10 | 1.00  |       | 14.10           |               | 1.41              |
|    |                                                                                      |         |    |      | 0.10 | 1.00  |       | 4.63            |               | 0.46              |
|    | Penulangan BjTS Semi Mekanis Pelat<br><i>Besi D10</i><br><i>Besi D10 untuk shaft</i> | 5378.80 | kg |      |      |       |       | 119.51<br>59.75 | 45.01<br>1.87 | 5378.80<br>111.91 |
|    | Bekisting untuk Pelat (3 kali pakai)                                                 | 48.41   | m2 |      |      |       |       |                 | 48.41         | 48.41             |
| D2 | <b>PEKERJAAN KOLOM</b>                                                               |         |    |      |      |       |       |                 |               |                   |
| 1  | Pekerjaan Kolom K-01                                                                 |         |    |      |      |       |       |                 |               |                   |
|    | Beton B0                                                                             | 12.47   | m3 |      |      |       |       |                 |               |                   |
|    |                                                                                      |         |    | 0.45 | 0.75 | 2.31  | 16.00 |                 |               | 12.47             |
|    | Penulangan BjTS Semi Mekanis Kolom<br><i>Besi D22</i>                                | 2812.23 | kg |      |      |       |       |                 |               |                   |
|    | Bekisting untuk Kolom (3 kali pakai)                                                 | 88.70   | m2 |      |      | 1.87  | 16.00 | 234.98          | 11.97         | 2812.23           |
|    |                                                                                      |         |    | 0.45 | 0.75 | 2.31  | 16.00 |                 |               | 88.70             |
| 2  | Pekerjaan Kolom K-02                                                                 |         |    |      |      |       |       |                 |               |                   |
|    | Beton B0                                                                             | 1.13    | m3 |      |      |       |       |                 |               |                   |
|    |                                                                                      |         |    | 0.35 | 0.35 | 2.31  | 4.00  |                 |               | 1.13              |
|    | Penulangan BjTS Semi Mekanis Kolom<br><i>Besi D22</i>                                | 281.22  | kg |      |      |       |       |                 |               |                   |
|    | Bekisting untuk Kolom (3 kali pakai)                                                 | 12.94   | m2 |      |      | 1.87  | 4.00  | 234.98          | 1.20          | 281.22            |
|    |                                                                                      |         |    | 0.35 | 0.35 | 2.31  | 4.00  |                 |               | 12.94             |