

## DAFTAR PUSTAKA

- Anggita, M. Islami Rambe. (2021). ANALISIS KEPATUHAN PENGGUNAAN ALAT PELINDUNG DIRI (APD) PADA PEKERJA PEMANEN KELAPA SAWIT DI PTPN III KEBUN AMBALUTU. *Frontiers in Neuroscience*, 14(1), 1–13.
- Azzahri, L. M., & Ikhwan, K. (2019). Hubungan Pengetahuan Tentang Penggunaan Alat Pelindung Diri (APD) dengan Kepatuhan Penggunaan APD pada Perawat di Puskesmas Kuok. *Jurnal Kesehatan Masyarakat*, 3(1), 50–57.
- Bastian, Irham. D. (2023). *HULU RIAU*. 10(1), 109–116.
- Cici Aprilliani. (2016). *Keselamatan Dan Kesehatan Kerja(Hiperkes)*.
- Maesaroh, S., & Nurtjahjanti, H. (2013). Hubungan Antara Sikap Terhadap Alat Pelindung Diri (Apd) Dengan Komitmen Organisasi Pada Karyawan Bagian OHS Pt. Coca-Cola Bottling Indonesia Semarang Plant. *Jurnal EMPATI*, 2(3), 577–586. <https://doi.org/10.14710/empati.2013.7380>
- Menteri Tenaga Kerja dan Transmigrasi. (2010). Peraturan Menteri Tenaga Kerja dan Transmigrasi Republik Indonesia. *Peraturan Menteri Tenaga Kerja Dan Transmigrasi*, VII(8), 1–69. <https://indolabourdatabase.files.wordpress.com/2018/03/permenaker-no-8-tahun-2010-tentang-apd.pdf>
- MUALIM, M. (2021). Pengetahuan Dan Sikap Penggunaan Alat Pelindung Diri (Apd) Pada Pekerja Las Listrik. *Journal of Nursing and Public Health*, 9(1), 69–77. <https://doi.org/10.37676/jnph.v9i1.1443>
- Munawaroh, D. Sestiono. (2008). *h*. 9(12), 1–7.
- Nurkholis. (2013). *PENDIDIKAN DALAM UPAYA MEMAJUKAN TEKNOLOGI Oleh: Nurkholis Doktor Ilmu Pendidikan, Alumnus Universitas Negeri Jakarta Dosen Luar Biasa Jurusan Tarbiyah STAIN Purwokerto*. 1(1), 24–44.
- Prabawati, Z. (2018). Analisis Kepatuhan Pekerja Terhadap Penggunaan Alat Pelindung Diri (APD) di Proyek Light Rail Transit Jakarta (LRJT) PT. X Tahun 2018. *Skripsi Sekolah Tinggi Ilmu Kesehatan Binawan, STIKB(Jakarta)*, 12.
- Pristiwanti, D., Badariah, B., Hidayat, S., & Dewi, R. S. (2022). Pengertian

Pendidikan. *Jurnal Pendidikan Dan Konseling (JPDK)*, 4(6), 1707–1715.

- Puji, A. D., Kurniawan, B., & Jayanti, S. (2017). Faktor Faktor yang Berhubungan dengan Kepatuhan Penggunaan Alat Pelindung Diri pada Pekerja Rekanan (PT. X) di PT Indonesia Power Up Semarang. *Jurnal Kesehatan Masyarakat (e-Journal)*, 5(5), 20–31.
- Rahman Hakim, A., & Febriyanto, K. (2020). Hubungan Pengetahuan dengan Kepatuhan Penggunaan APD pada Pekerja di PT. Galangan Anugrah Wijaya Berjaya Samarinda. *Borneo Student Research*, 2(1), 446–452.
- Rambe, N., & Syahputra, N. (2019). HUBUNGAN KEPATUHAN PEMAKAIN ALAT PELINDUNG DIRI (APD) DENGAN KECELAKAN KERJA DI PT. GLOBAL PERMAI ABADI MEDAN TIMUR SUMATERA UTARA. *Ayan*, 8(5), 55.
- Saragih, V., Kurniawan, B., & Ekawati, E. (2016). Analisis Kepatuhan Pekerja Terhadap Penggunaan Alat Pelindung Diri (APD) (Studi Kasus Area Produksi Di PT. X ). *Jurnal Kesehatan Masyarakat Universitas Diponegoro*, 4(4), 747–755.
- Sukarini, L. P. (2018). Hubungan Pengetahuan Dengan Sikap Ibu Hamil Tentang Buku KIA. *Jurnal Genta Kebidanan*, 6(2). <https://doi.org/10.36049/jgk.v6i2.95>
- Winda PurnamaTagueha, Jantje B Mangare, & Tisano Tj. Arsjad. (2018). Manajemen Resiko Keselamatan dan kesehatan Kerja (K3) Pada Proyek Kontruksi (Studi Kasus: Pembangunan Gedung Laboratorium Fakultas Teknik Unsrat). *Sipil Statik*, 6(11), 907–916.

## LEMBAR PERSETUJUAN MENJADI RESPONDEN

Berdasarkan permintaan dan permohonan serta penjelasan peneliti:

Nama : Ernawati Eliezer Purba

NIM : P00933219010

Institusi : Politeknik Kesehatan Medan

Telah disampaikan kepada saya, bahwa peneliti akan melakukan penelitian tentang “Hubungan Pengetahuan Dan Sikap Dengan Penggunaan Alat Pelindung Diri (APD) Di Pabrik Kaca PT Esa Sentosa Abadi Medan Tahun 2023”

Peneliti

Responden

(Ernawati Eliezer Purba)

( )

## KUOSIONER

### Hubungan Pengetahuan Dan Sikap Dengan Penggunaan Alat Pelindung Diri (APD) Di Pabrik Kaca PT Esa Sentosa Abadi Medan Tahun 2023

#### Petunjuk Pengisian

1. Jawablah pertanyaan sesuai dengan keadaan dan pendapat anda secara jujur dan jelas.
2. Untuk pertanyaan pilihan berganda, pilihlah salah satu jawaban dengan melingkari salah satu huruf yang dianggap benar.
3. Untuk pertanyaan yang berada dalam tabel berilah tanda ceklis (✓) pada kolom yang dianggap benar

#### I. IDENTITAS RESPONDEN

- a. Nama Responden :.....
- b. Umur :.....
- c. Jenis Kelamin :.....
- d. Pendidikan Terakhir: .....

1. Laki-laki ☐ 2. Perempuan ☐

#### II. Pengetahuan Tentang Alat Pelindung Diri

1. Mengapa saudara dianjurkan untuk menggunakan sarung tangan (Gloves) ?
  - a. Takut kena sangsi
  - b. Untuk melindungi diri dari faktor risiko bahaya pada saat bekerja
  - c. Ikut-ikutan teman
2. Apakah tujuan dari penggunaan safety shoes (pelindung kaki)?
  - a. Agar terlihat gagah pada saat melakukan pekerjaan
  - b. Untuk melindungi bagian tubuh dari bahaya yang dapat mengakibatkan cedera

- c. Agar tidak terkena teguran
- 3. Topi pengaman bagi pekerja?
  - a. Mencegah kemungkinan terjadinya kecelakaan kerja dan penyakit akibat kerja
  - b. Mematuhi aturan perusahaan agar terhindar dari teguran
  - c. Menambah rasa percaya diri
- 4. Pemakaian pelindung telinga(ear muft dan ear plug) dilingkungan kerja dilakukan berdasarkan?
  - a. Peraturan yang berlaku diperusahaan untuk melindungi diri agar terhindar dari kecelakaan kerja
  - b. Anjuran pimpinan
  - c. Kemauan sendiri
- 5. Pemakaian alat pelindung diri diatur dalam?
  - a. Pedoman kerja perusahaan
  - b. Perjanjian kerja
  - c. Buku panduan kerja
- 6. Bagaimana ciri-ciri alat pelindung diri (APD) safety shoes,face shield,ear muft/ear plug, safety glass,gloves yang layak untuk digunakan?
  - a. Alat pelindung diri yang bagus dan menarik
  - b. Alat pelindung diri yang mahal
  - c. Alat pelindung diri yang dapat melindungi diri, nyaman, tidak mengganggu gerak dan tidak digunakan secara bergantian
- 7. Siapakah yang bertanggung jawab terhadap pemeliharaan alat pelindung diri (APD) safety shoes,face shield,ear muft/ear plug, safety glass,gloves?
  - a. Diri sendiri
  - b. Rekan kerja
  - c. Pihak HSE atau Perusahaan

8. Apakah saudara mengetahui dampak dari tidak menggunakan alat pelindung diri (APD) safety shoes, face shield, ear muf/ear plug, safety glass, gloves?
  - a. Dapat mengakibatkan cedera pada bagian tubuh saat melakukan pekerjaan
  - b. Tidak
  - c. Dapat membuat penampilan menjadi kurang menarik
9. Apakah kelayakan alat pelindung diri (APD) safety shoes, face shield, ear muf/ear plug, safety glass, gloves itu sangat penting untuk diperhatikan?
  - a. Ya, karena itu dipergunakan untuk melindungi diri
  - b. Tidak, karena menggunakan APD membuat tubuh menjadi tidak nyaman
  - c. Tergantung APD yang dipakai
10. Apakah penyimpanan alat pelindung diri (APD) safety shoes, face shield, ear muf/ear plug, safety glass, gloves harus sesuai dengan jenisnya?
  - a. Ya, agar mempermudah karyawan untuk mencari APD sesuai dengan kebutuhannya
  - b. Tidak, karena itu merepotkan para pekerja
  - c. Tidak tahu

### III. SIKAP PEKERJA DALAM PENGGUNAAN APD

| No | Pernyataan                                                                                                                                                                              | Jawaban |              |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------|
|    |                                                                                                                                                                                         | Setuju  | Tidak setuju |
| 1  | Pekerja perlu memakai alat pelindung diri (APD) safety shoes,face shield,ear muft/ear plug, safety glass,gloves pada saat melakukan pekerjaan?                                          |         |              |
| 2  | Sebelum melakukan pekerjaan, dilakukan pengarahan (safety briefing)?                                                                                                                    |         |              |
| 3  | Karyawan yang tidak memenuhi untuk memakai alat pelindung diri (APD) safety shoes,face shield,ear muft/ear plug, safety glass,gloves, maka diberi sanksi                                |         |              |
| 4  | alat pelindung diri (APD) safety shoes,face shield,ear muft/ear plug, safety glass,gloves yang dipakai penting untuk menghindari faktor resiko bahaya yang pada saat bekerja            |         |              |
| 5  | Sebelum memakai alat pelindung diri (APD) safety shoes,face shield,ear muft/ear plug, safety glass,gloves untuk melakukan pekerjaan, perlu diperhatikan petunjuk penggunaan yang benar  |         |              |
| 6  | Bekerja tanpa menggunakan alat pelindung diri (APD) safety shoes,face shield,ear muft/ear plug, safety glass,gloves lebih berbahaya dari pada bekerja dengan menggunakan APD yang benar |         |              |
| 7  | Dalam hal pemakaian alat pelindung diri (APD) safety shoes,face shield,ear muft/ear plug, safety glass,gloves pada saat                                                                 |         |              |

| No | Pernyataan                                                                                                                                         | Jawaban |              |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------|
|    |                                                                                                                                                    | Setuju  | Tidak setuju |
|    | bekerja tidak perlu pedoman /peraturan yang berlaku di perusahaan                                                                                  |         |              |
| 8  | Pekerja menggunakan Alat Pelindung Kepala (safety helmet) untuk melindungi kepala saat bekerja                                                     |         |              |
| 9  | Kelayakan alat pelindung diri (APD) safety shoes,face shield,ear muft/ear plug, safety glass,gloves itu sangat perlu diperhatikan oleh perusahaan  |         |              |
| 10 | Penggunaan alat pelindung diri (APD) safety shoes,face shield,ear muft/ear plug, safety glass,gloves berpengaruh terhadap tingkat kecelakaan kerja |         |              |

#### IV. PENGGUNAAN ALAT PELINDUNG DIRI

| No | Pernyataan                                                              | Jawab |       |
|----|-------------------------------------------------------------------------|-------|-------|
|    |                                                                         | YA    | TIDAK |
| 1  | Memakai alat pelindung kepala (helm) saat bekerja itu diwajibkan?       |       |       |
| 2  | Memakai alat pelindung mulut (masker) saat bekerja itu diwajibkan?      |       |       |
| 3  | Memakai alat pelindung telinga (ear plug) saat bekerja itu diwajibkan?  |       |       |
| 4  | Memakai alat pelindung sarung tangan saat bekerja itu diwajibkan?       |       |       |
| 5  | Memakai alat pelindung tubuh saat bekerja itu diwajibkan?               |       |       |
| 6  | Memakai alat pelindung kaki (sepatu boots) saat bekerja itu diwajibkan? |       |       |
| 7  | Memakai alat pelindung wajah saat bekerja itu diwajibkan?               |       |       |
| 8  | Memakai alat pelindung mata saat bekerja itu diwajibkan?                |       |       |
| 9  | Pengawas selalu mengingatkan anda untuk menggunakan APD saat bekerja?   |       |       |
| 10 | APD yang tersedia memenuhi standart yang ada?                           |       |       |

## Hasil Analisis Uji Statistik Hubungan Pengetahuan Dan Sikap Penggunaan APD Di Pabrik Kaca Pt Esa Sentosa Abadi Medan Tahun 2023

**Statistics**

|      |         | Umur<br>Responden | Jenis<br>Kelamin | Pendidikan<br>Terakhir |
|------|---------|-------------------|------------------|------------------------|
| N    | Valid   | 50                | 50               | 50                     |
|      | Missing | 0                 | 0                | 0                      |
| Mean |         | 2,38              | 1,34             | 2,76                   |

### Frequency Table

**Umur Responden**

|       |       | Frequency | Percent | Valid Percent | Cumulative<br>Percent |
|-------|-------|-----------|---------|---------------|-----------------------|
| Valid | 16-25 | 7         | 14,0    | 14,0          | 14,0                  |
|       | 26-34 | 21        | 42,0    | 42,0          | 56,0                  |
|       | 35-44 | 18        | 36,0    | 36,0          | 92,0                  |
|       | >45   | 4         | 8,0     | 8,0           | 100,0                 |
|       | Total | 50        | 100,0   | 100,0         |                       |

**Jenis Kelamin**

|       |           | Frequency | Percent | Valid Percent | Cumulative<br>Percent |
|-------|-----------|-----------|---------|---------------|-----------------------|
| Valid | Laki laki | 33        | 66,0    | 66,0          | 66,0                  |
|       | Perempuan | 17        | 34,0    | 34,0          | 100,0                 |
|       | Total     | 50        | 100,0   | 100,0         |                       |

**Pendidikan Terakhir**

|       |                  | Frequency | Percent | Valid Percent | Cumulative<br>Percent |
|-------|------------------|-----------|---------|---------------|-----------------------|
| Valid | SD               | 4         | 8,0     | 8,0           | 8,0                   |
|       | SMP              | 12        | 24,0    | 24,0          | 32,0                  |
|       | SMA              | 26        | 52,0    | 52,0          | 84,0                  |
|       | Perguruan Tinggi | 8         | 16,0    | 16,0          | 100,0                 |
|       | Total            | 50        | 100,0   | 100,0         |                       |

### Statistics

|      |         | Pengetahuan | Sikap | Penggunaan APD |
|------|---------|-------------|-------|----------------|
| N    | Valid   | 50          | 50    | 50             |
|      | Missing | 0           | 0     | 0              |
| Mean |         | ,34         | ,32   | ,38            |

### Pengetahuan

|       |        | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|--------|-----------|---------|---------------|--------------------|
| Valid | Kurang | 33        | 66,0    | 66,0          | 66,0               |
|       | Baik   | 17        | 34,0    | 34,0          | 100,0              |
|       | Total  | 50        | 100,0   | 100,0         |                    |

### Sikap

|       |        | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|--------|-----------|---------|---------------|--------------------|
| Valid | Kurang | 34        | 68,0    | 68,0          | 68,0               |
|       | Baik   | 16        | 32,0    | 32,0          | 100,0              |
|       | Total  | 50        | 100,0   | 100,0         |                    |

### Penggunaan APD

|       |                   | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|-------------------|-----------|---------|---------------|--------------------|
| Valid | Tidak Menggunakan | 31        | 62,0    | 62,0          | 62,0               |
|       | Menggunakan       | 19        | 38,0    | 38,0          | 100,0              |
|       | Total             | 50        | 100,0   | 100,0         |                    |

## Crosstabs

### Case Processing Summary

|                                 | Cases |         |         |         |       |         |
|---------------------------------|-------|---------|---------|---------|-------|---------|
|                                 | Valid |         | Missing |         | Total |         |
|                                 | N     | Percent | N       | Percent | N     | Percent |
| Pengetahuan *<br>Penggunaan APD | 50    | 100,0%  | 0       | ,0%     | 50    | 100,0%  |

**Pengetahuan \* Penggunaan APD Crosstabulation**

|             |        |                      | Penggunaan APD    |             | Total  |
|-------------|--------|----------------------|-------------------|-------------|--------|
|             |        |                      | Tidak Menggunakan | Menggunakan |        |
| Pengetahuan | Kurang | Count                | 27                | 6           | 33     |
|             |        | Expected Count       | 20,5              | 12,5        | 33,0   |
|             |        | % within Pengetahuan | 81,8%             | 18,2%       | 100,0% |
|             | Baik   | Count                | 4                 | 13          | 17     |
|             |        | Expected Count       | 10,5              | 6,5         | 17,0   |
|             |        | % within Pengetahuan | 23,5%             | 76,5%       | 100,0% |
| Total       |        | Count                | 31                | 19          | 50     |
|             |        | Expected Count       | 31,0              | 19,0        | 50,0   |
|             |        | % within Pengetahuan | 62,0%             | 38,0%       | 100,0% |

**Chi-Square Tests**

|                                    | Value               | df | Asymp. Sig. (2-sided) | Exact Sig. (2-sided) | Exact Sig. (1-sided) |
|------------------------------------|---------------------|----|-----------------------|----------------------|----------------------|
| Pearson Chi-Square                 | 16,180 <sup>b</sup> | 1  | ,000                  | ,000                 | ,000                 |
| Continuity Correction <sup>a</sup> | 13,801              | 1  | ,000                  |                      |                      |
| Likelihood Ratio                   | 16,563              | 1  | ,000                  |                      |                      |
| Fisher's Exact Test                |                     |    |                       |                      |                      |
| Linear-by-Linear Association       | 15,857              | 1  | ,000                  |                      |                      |
| N of Valid Cases                   | 50                  |    |                       |                      |                      |

a. Computed only for a 2x2 table

b. 0 cells (,0%) have expected count less than 5. The minimum expected count is 6,46.

**Case Processing Summary**

|                        | Cases |         |         |         |       |         |
|------------------------|-------|---------|---------|---------|-------|---------|
|                        | Valid |         | Missing |         | Total |         |
|                        | N     | Percent | N       | Percent | N     | Percent |
| Sikap * Penggunaan APD | 50    | 100,0%  | 0       | ,0%     | 50    | 100,0%  |

**Sikap \* Penggunaan APD Crosstabulation**

|       |                |                | Penggunaan APD    |             | Total  |
|-------|----------------|----------------|-------------------|-------------|--------|
|       |                |                | Tidak Menggunakan | Menggunakan |        |
| Sikap | Kurang         | Count          | 25                | 9           | 34     |
|       |                | Expected Count | 21,1              | 12,9        | 34,0   |
|       |                | % within Sikap | 73,5%             | 26,5%       | 100,0% |
|       | Baik           | Count          | 6                 | 10          | 16     |
|       |                | Expected Count | 9,9               | 6,1         | 16,0   |
|       |                | % within Sikap | 37,5%             | 62,5%       | 100,0% |
| Total | Count          | 31             | 19                | 50          |        |
|       | Expected Count | 31,0           | 19,0              | 50,0        |        |
|       | % within Sikap | 62,0%          | 38,0%             | 100,0%      |        |

**Chi-Square Tests**

|                                    | Value              | df | Asymp. Sig. (2-sided) | Exact Sig. (2-sided) | Exact Sig. (1-sided) |
|------------------------------------|--------------------|----|-----------------------|----------------------|----------------------|
| Pearson Chi-Square                 | 5,995 <sup>b</sup> | 1  | ,014                  | ,027                 | ,017                 |
| Continuity Correction <sup>a</sup> | 4,563              | 1  | ,033                  |                      |                      |
| Likelihood Ratio                   | 5,938              | 1  | ,015                  |                      |                      |
| Fisher's Exact Test                |                    |    |                       |                      |                      |
| Linear-by-Linear Association       | 5,875              | 1  | ,015                  |                      |                      |
| N of Valid Cases                   | 50                 |    |                       |                      |                      |

a. Computed only for a 2x2 table

b. 0 cells (,0%) have expected count less than 5. The minimum expected count is 6,08.

# Master Tabel

| No | Nama              | Umur | Jenis Kelamin | Pendidikan | Pengetahuan |    |    |    |    |    |    |    |    |     | Total Pengetahuan | Sikap |    |    |    |    |    |    |    |    |    | Total Sikap | Penggunaan APD |     |     |     |     |     |     |     |     |     | Total Penggunaan APD | K.P.A |     |      |
|----|-------------------|------|---------------|------------|-------------|----|----|----|----|----|----|----|----|-----|-------------------|-------|----|----|----|----|----|----|----|----|----|-------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------------|-------|-----|------|
|    |                   |      |               |            | P1          | P2 | P3 | P4 | P5 | P6 | P7 | P8 | P9 | P10 |                   | K.P   | S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 | S9 |             | S10            | K.S | PA1 | PA2 | PA3 | PA4 | PA5 | PA6 | PA7 | PA8 |                      |       | PA9 | PA10 |
| 1  | Finze Zebua       | 2    | 1             | 3          | 1           | 1  | 0  | 0  | 0  | 0  | 1  | 0  | 0  | 3   | 0                 | 1     | 0  | 1  | 1  | 0  | 0  | 0  | 1  | 1  | 0  | 5           | 0              | 1   | 0   | 1   | 0   | 1   | 1   | 1   | 1   | 6   | 1                    |       |     |      |
| 2  | Evi Susanti       | 3    | 2             | 2          | 1           | 0  | 1  | 0  | 1  | 0  | 1  | 0  | 1  | 5   | 0                 | 1     | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 1  | 1  | 5           | 0              | 0   | 1   | 0   | 0   | 1   | 0   | 0   | 1   | 1   | 5                    | 0     |     |      |
| 3  | Putri             | 2    | 2             | 4          | 1           | 0  | 1  | 0  | 1  | 0  | 1  | 1  | 0  | 6   | 1                 | 1     | 0  | 1  | 0  | 1  | 1  | 0  | 1  | 0  | 1  | 6           | 1              | 1   | 1   | 0   | 1   | 0   | 1   | 0   | 0   | 0   | 4                    | 1     |     |      |
| 4  | Marthin           | 2    | 1             | 4          | 1           | 0  | 1  | 0  | 1  | 0  | 1  | 0  | 0  | 4   | 0                 | 1     | 1  | 0  | 1  | 1  | 1  | 0  | 0  | 1  | 0  | 6           | 1              | 0   | 0   | 0   | 1   | 1   | 0   | 0   | 1   | 1   | 1                    | 5     | 1   |      |
| 5  | Alfandi           | 3    | 1             | 3          | 1           | 0  | 1  | 0  | 0  | 1  | 0  | 1  | 0  | 1   | 5                 | 1     | 1  | 1  | 0  | 1  | 0  | 0  | 0  | 1  | 1  | 6           | 1              | 1   | 1   | 0   | 1   | 0   | 1   | 1   | 1   | 1   | 8                    | 1     |     |      |
| 6  | Willy P           | 2    | 1             | 3          | 1           | 1  | 0  | 1  | 0  | 0  | 0  | 0  | 1  | 5   | 1                 | 1     | 0  | 0  | 0  | 1  | 0  | 1  | 0  | 1  | 0  | 4           | 0              | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 0   | 0   | 7                    | 1     |     |      |
| 7  | Sabrina           | 2    | 2             | 3          | 1           | 1  | 0  | 0  | 1  | 0  | 1  | 0  | 0  | 1   | 5                 | 0     | 0  | 1  | 1  | 0  | 0  | 1  | 1  | 0  | 0  | 5           | 0              | 1   | 1   | 1   | 0   | 0   | 1   | 0   | 1   | 0   | 5                    | 0     |     |      |
| 8  | Edwinta           | 3    | 2             | 2          | 1           | 0  | 1  | 1  | 0  | 0  | 1  | 0  | 0  | 4   | 0                 | 0     | 1  | 0  | 1  | 1  | 0  | 0  | 0  | 1  | 1  | 5           | 0              | 1   | 1   | 0   | 0   | 0   | 0   | 1   | 1   | 1   | 0                    | 5     | 0   |      |
| 9  | Dedi Agus Santoso | 3    | 1             | 3          | 1           | 1  | 0  | 1  | 0  | 1  | 0  | 0  | 1  | 5   | 1                 | 1     | 0  | 1  | 0  | 1  | 1  | 0  | 1  | 0  | 0  | 5           | 0              | 1   | 1   | 0   | 1   | 1   | 1   | 1   | 0   | 1   | 1                    | 8     | 1   |      |
| 10 | Murni             | 3    | 2             | 3          | 1           | 0  | 0  | 1  | 0  | 1  | 0  | 1  | 0  | 1   | 5                 | 0     | 0  | 0  | 1  | 1  | 0  | 1  | 0  | 0  | 1  | 5           | 0              | 1   | 1   | 0   | 0   | 1   | 0   | 1   | 0   | 1   | 0                    | 5     | 0   |      |
| 11 | Bambang           | 4    | 1             | 2          | 0           | 0  | 0  | 1  | 1  | 1  | 0  | 1  | 0  | 1   | 5                 | 0     | 1  | 1  | 0  | 0  | 0  | 0  | 1  | 1  | 0  | 5           | 0              | 1   | 0   | 1   | 0   | 1   | 0   | 0   | 0   | 1   | 1                    | 5     | 0   |      |
| 12 | Fazri             | 2    | 1             | 3          | 1           | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 1  | 1   | 5                 | 1     | 0  | 0  | 0  | 0  | 1  | 1  | 1  | 0  | 0  | 3           | 0              | 1   | 1   | 1   | 1   | 0   | 0   | 0   | 0   | 0   | 1                    | 5     | 0   |      |
| 13 | Andreas Naibaho   | 3    | 1             | 2          | 0           | 0  | 0  | 0  | 0  | 1  | 1  | 1  | 1  | 1   | 5                 | 0     | 0  | 0  | 1  | 1  | 1  | 0  | 0  | 0  | 1  | 5           | 0              | 1   | 0   | 0   | 0   | 1   | 1   | 0   | 0   | 0   | 0                    | 3     | 0   |      |
| 14 | Turangga          | 3    | 1             | 3          | 0           | 1  | 1  | 0  | 1  | 1  | 0  | 1  | 0  | 0   | 5                 | 0     | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 1  | 0  | 3           | 0              | 0   | 1   | 1   | 0   | 0   | 0   | 1   | 1   | 0   | 1                    | 5     | 0   |      |
| 15 | Santo             | 2    | 1             | 3          | 1           | 1  | 1  | 1  | 0  | 0  | 1  | 1  | 0  | 1   | 7                 | 1     | 0  | 0  | 0  | 1  | 1  | 0  | 0  | 1  | 1  | 0           | 5              | 1   | 1   | 0   | 0   | 0   | 1   | 0   | 0   | 1   | 1                    | 5     | 1   |      |
| 16 | kenzo             | 2    | 1             | 2          | 0           | 0  | 1  | 1  | 1  | 1  | 0  | 0  | 0  | 1   | 5                 | 0     | 1  | 1  | 1  | 0  | 0  | 1  | 0  | 0  | 1  | 5           | 0              | 1   | 0   | 0   | 0   | 1   | 1   | 0   | 0   | 0   | 0                    | 3     | 0   |      |
| 17 | Elya              | 2    | 2             | 4          | 0           | 1  | 0  | 1  | 0  | 1  | 1  | 0  | 0  | 1   | 5                 | 0     | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 1  | 1  | 4           | 0              | 1   | 1   | 0   | 0   | 1   | 0   | 1   | 0   | 0   | 1                    | 5     | 0   |      |
| 18 | Stefani           | 1    | 2             | 3          | 1           | 1  | 1  | 0  | 1  | 1  | 1  | 1  | 0  | 1   | 8                 | 1     | 0  | 1  | 0  | 0  | 1  | 0  | 0  | 1  | 1  | 4           | 1              | 1   | 1   | 0   | 1   | 0   | 0   | 1   | 1   | 1   | 1                    | 7     | 1   |      |
| 19 | Arringgo          | 2    | 1             | 3          | 0           | 1  | 1  | 1  | 1  | 0  | 1  | 1  | 1  | 1   | 8                 | 0     | 1  | 1  | 1  | 1  | 1  | 0  | 0  | 1  | 1  | 8           | 0              | 0   | 0   | 1   | 0   | 1   | 0   | 0   | 1   | 1   | 1                    | 5     | 0   |      |
| 20 | Muhammad          | 2    | 1             | 4          | 1           | 0  | 1  | 0  | 0  | 1  | 0  | 1  | 0  | 1   | 5                 | 0     | 1  | 0  | 1  | 0  | 1  | 0  | 0  | 1  | 0  | 5           | 0              | 1   | 1   | 1   | 0   | 1   | 1   | 0   | 0   | 1   | 0                    | 6     | 1   |      |
| 21 | Yopi              | 2    | 1             | 4          | 1           | 0  | 1  | 1  | 0  | 0  | 1  | 0  | 0  | 1   | 5                 | 0     | 1  | 1  | 0  | 1  | 0  | 1  | 0  | 0  | 1  | 5           | 0              | 1   | 0   | 0   | 0   | 1   | 0   | 1   | 0   | 1   | 0                    | 5     | 0   |      |
| 22 | Mesra             | 1    | 2             | 4          | 0           | 1  | 0  | 1  | 0  | 1  | 1  | 1  | 0  | 1   | 6                 | 1     | 1  | 1  | 0  | 1  | 0  | 0  | 0  | 1  | 0  | 5           | 1              | 1   | 1   | 0   | 1   | 1   | 1   | 1   | 1   | 1   | 0                    | 8     | 1   |      |
| 23 | Jailani           | 2    | 1             | 3          | 1           | 1  | 1  | 1  | 1  | 0  | 0  | 0  | 0  | 1   | 7                 | 0     | 1  | 1  | 1  | 1  | 0  | 0  | 0  | 0  | 1  | 6           | 0              | 1   | 1   | 0   | 0   | 0   | 1   | 0   | 1   | 1   | 0                    | 5     | 0   |      |
| 24 | Sukma             | 1    | 2             | 4          | 1           | 0  | 1  | 0  | 1  | 0  | 0  | 0  | 1  | 0   | 5                 | 1     | 1  | 1  | 0  | 1  | 1  | 0  | 1  | 1  | 1  | 8           | 1              | 1   | 1   | 0   | 1   | 1   | 0   | 0   | 1   | 0   | 0                    | 5     | 0   |      |
| 25 | Evans             | 2    | 1             | 3          | 1           | 1  | 1  | 0  | 0  | 1  | 1  | 0  | 0  | 0   | 5                 | 1     | 0  | 0  | 0  | 1  | 1  | 1  | 0  | 0  | 1  | 5           | 0              | 1   | 0   | 1   | 0   | 1   | 0   | 1   | 0   | 0   | 1                    | 5     | 0   |      |
| 26 | Indra             | 2    | 1             | 3          | 0           | 0  | 1  | 1  | 1  | 0  | 0  | 0  | 0  | 0   | 4                 | 0     | 0  | 1  | 0  | 0  | 0  | 0  | 1  | 1  | 1  | 5           | 0              | 1   | 1   | 0   | 0   | 1   | 0   | 0   | 1   | 1   | 0                    | 5     | 0   |      |
| 27 | Sri               | 1    | 2             | 4          | 1           | 1  | 0  | 1  | 1  | 1  | 1  | 1  | 0  | 1   | 8                 | 1     | 0  | 1  | 0  | 1  | 0  | 1  | 0  | 1  | 0  | 5           | 1              | 1   | 1   | 0   | 0   | 1   | 0   | 0   | 0   | 1   | 1                    | 5     | 1   |      |
| 28 | Hotma             | 3    | 2             | 3          | 0           | 1  | 1  | 1  | 0  | 0  | 0  | 1  | 1  | 0   | 5                 | 0     | 0  | 0  | 1  | 1  | 1  | 0  | 0  | 0  | 1  | 6           | 1              | 1   | 1   | 0   | 0   | 0   | 1   | 0   | 0   | 1   | 0                    | 4     | 0   |      |
| 29 | Madgalena         | 1    | 2             | 3          | 1           | 1  | 0  | 0  | 0  | 1  | 1  | 1  | 1  | 1   | 7                 | 1     | 0  | 1  | 1  | 1  | 0  | 1  | 0  | 0  | 0  | 5           | 0              | 1   | 0   | 1   | 1   | 0   | 0   | 0   | 1   | 0   | 1                    | 5     | 0   |      |
| 30 | Rahmadani         | 2    | 2             | 3          | 1           | 0  | 0  | 0  | 1  | 0  | 1  | 0  | 1  | 1   | 5                 | 0     | 0  | 0  | 0  | 0  | 1  | 0  | 1  | 0  | 1  | 4           | 0              | 0   | 0   | 1   | 1   | 1   | 0   | 0   | 0   | 1   | 1                    | 5     | 0   |      |
| 31 | Madani            | 2    | 2             | 2          | 0           | 0  | 0  | 1  | 1  | 1  | 0  | 0  | 0  | 0   | 3                 | 0     | 1  | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 1  | 5           | 0              | 1   | 1   | 1   | 1   | 0   | 0   | 0   | 0   | 0   | 1                    | 6     | 1   |      |
| 32 | Ladi              | 3    | 1             | 2          | 1           | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 1  | 1   | 5                 | 0     | 1  | 1  | 1  | 0  | 1  | 0  | 0  | 0  | 1  | 6           | 1              | 1   | 0   | 0   | 0   | 1   | 0   | 0   | 1   | 1   | 1                    | 5     | 0   |      |
| 33 | Sante             | 3    | 1             | 3          | 0           | 1  | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 1   | 4                 | 0     | 0  | 0  | 0  | 1  | 1  | 1  | 0  | 0  | 0  | 3           | 0              | 0   | 0   | 0   | 1   | 1   | 1   | 0   | 0   | 0   | 1                    | 0     | 4   | 0    |
| 34 | Nico              | 1    | 1             | 3          | 1           | 0  | 1  | 0  | 1  | 0  | 0  | 1  | 0  | 1   | 5                 | 1     | 1  | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 1  | 5           | 1              | 1   | 1   | 0   | 1   | 1   | 0   | 0   | 1   | 1   | 0                    | 6     | 1   |      |
| 35 | Turanga           | 3    | 1             | 3          | 0           | 0  | 0  | 0  | 1  | 1  | 0  | 1  | 1  | 1   | 5                 | 0     | 0  | 0  | 0  | 1  | 1  | 1  | 0  | 0  | 0  | 5           | 0              | 1   | 1   | 0   | 0   | 0   | 1   | 1   | 0   | 0   | 1                    | 0     | 5   | 0    |
| 36 | Umikalsun         | 4    | 1             | 2          | 1           | 0  | 0  | 1  | 0  | 0  | 0  | 1  | 1  | 1   | 5                 | 0     | 1  | 1  | 1  | 0  | 1  | 0  | 0  | 1  | 1  | 6           | 1              | 1   | 0   | 0   | 0   | 1   | 0   | 1   | 0   | 1   | 0                    | 5     | 0   |      |
| 37 | Dindra            | 3    | 1             | 2          | 0           | 0  | 0  | 1  | 1  | 1  | 1  | 1  | 0  | 0   | 5                 | 0     | 1  | 1  | 0  | 0  | 1  | 1  | 1  | 0  | 0  | 5           | 0              | 1   | 1   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 1                    | 1     | 5   | 0    |
| 38 | Jekky             | 3    | 1             | 2          | 1           | 1  | 1  | 1  | 0  | 0  | 0  | 0  | 1  | 1   | 8                 | 1     | 1  | 1  | 1  | 1  | 0  | 1  | 1  | 1  | 1  | 9           | 1              | 1   | 1   | 0   | 0   | 1   | 1   | 1   | 0   | 1   | 1                    | 8     | 1   |      |
| 39 | Taufik            | 3    | 1             | 3          | 0           | 1  | 0  | 1  | 0  | 1  | 0  | 1  | 1  | 1   | 6                 | 1     | 1  | 1  | 1  | 0  | 0  | 0  | 1  | 1  | 1  | 7           | 1              | 0   | 1   | 0   | 0   | 0   | 1   | 1   | 1   | 1   | 0                    | 5     | 1   |      |
| 40 | Jokky             | 2    | 1             | 2          | 1           | 0  | 0  | 0  | 0  | 1  | 1  | 1  | 1  | 0   | 5                 | 0     | 0  | 0  | 0  | 0  | 1  | 1  | 1  | 1  | 1  | 6           | 1              | 0   | 0   | 0   | 0   | 1   | 1   | 0   | 0   | 1   | 0                    | 1     | 4   | 0    |
| 41 | Murni             | 4    | 2             | 3          | 0           | 1  | 1  | 1  | 1  | 0  | 0  | 0  | 0  | 1   | 6                 | 1     | 1  | 0  | 0  | 0  | 1  | 1  | 0  | 0  | 1  | 5           | 0              | 1   | 1   | 0   | 1   | 0   | 1   | 1   | 1   | 0   | 0                    | 7     | 1   |      |
| 42 | Imom              | 2    | 1             | 3          | 1           | 1  | 0  | 0  | 0  | 1  | 0  | 1  | 0  | 1   | 5                 | 0     | 0  | 0  | 1  | 1  | 1  | 1  | 1  | 0  | 0  | 7           | 1              | 1   | 0   | 0   | 1   | 0   | 0   | 1   | 0   | 1   | 1                    | 5     | 0   |      |
| 43 | Niko              | 1    | 1             | 3          | 1           | 0  | 0  | 0  | 0  | 1  | 1  | 1  | 1  |     |                   |       |    |    |    |    |    |    |    |    |    |             |                |     |     |     |     |     |     |     |     |     |                      |       |     |      |

| No | Nama              | Umur | Jenis Kelamin | Pendidikan | Pengetahuan |    |    |    |    |    |    |    |    |     | Total Pengetahuan | K.P |
|----|-------------------|------|---------------|------------|-------------|----|----|----|----|----|----|----|----|-----|-------------------|-----|
|    |                   |      |               |            | P1          | P2 | P3 | P4 | P5 | P6 | P7 | P8 | P9 | P10 |                   |     |
| 1  | Finze Zebua       | 2    | 1             | 3          | 1           | 1  | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 0   | 3                 | 0   |
| 2  | Evi Susanti       | 3    | 2             | 2          | 1           | 0  | 1  | 0  | 1  | 0  | 1  | 0  | 1  | 0   | 5                 | 0   |
| 3  | Putri             | 2    | 2             | 4          | 1           | 0  | 1  | 0  | 1  | 0  | 1  | 1  | 0  | 1   | 6                 | 1   |
| 4  | Marthin           | 2    | 1             | 4          | 1           | 0  | 1  | 0  | 1  | 0  | 1  | 0  | 0  | 0   | 4                 | 0   |
| 5  | Alfandi           | 3    | 1             | 3          | 1           | 0  | 1  | 0  | 0  | 1  | 0  | 1  | 0  | 1   | 5                 | 1   |
| 6  | Willy P           | 2    | 1             | 3          | 1           | 1  | 0  | 1  | 0  | 0  | 0  | 1  | 0  | 1   | 5                 | 1   |
| 7  | Sabrina           | 2    | 2             | 3          | 1           | 1  | 0  | 0  | 1  | 0  | 1  | 0  | 0  | 1   | 5                 | 0   |
| 8  | Edwinta           | 3    | 2             | 2          | 1           | 0  | 1  | 1  | 0  | 0  | 1  | 0  | 0  | 0   | 4                 | 0   |
| 9  | Dedi Agus Santoso | 3    | 1             | 3          | 1           | 1  | 0  | 1  | 0  | 1  | 0  | 0  | 1  | 0   | 5                 | 1   |
| 10 | Murni             | 3    | 2             | 3          | 1           | 0  | 0  | 1  | 0  | 1  | 0  | 1  | 0  | 1   | 5                 | 0   |
| 11 | Bambang           | 4    | 1             | 2          | 0           | 0  | 0  | 1  | 1  | 1  | 0  | 1  | 0  | 1   | 5                 | 0   |
| 12 | Fazri             | 2    | 1             | 3          | 1           | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 1  | 1   | 5                 | 1   |
| 13 | Andreas Naibaho   | 3    | 1             | 2          | 0           | 0  | 0  | 0  | 0  | 1  | 1  | 1  | 1  | 1   | 5                 | 0   |
| 14 | Turangga          | 3    | 1             | 3          | 0           | 1  | 1  | 0  | 1  | 1  | 0  | 1  | 0  | 0   | 5                 | 0   |
| 15 | Santo             | 2    | 1             | 3          | 1           | 1  | 1  | 1  | 0  | 0  | 1  | 1  | 0  | 1   | 7                 | 1   |
| 16 | kenzo             | 2    | 1             | 2          | 0           | 0  | 1  | 1  | 1  | 1  | 0  | 0  | 0  | 1   | 5                 | 0   |
| 17 | Elya              | 2    | 2             | 4          | 0           | 1  | 0  | 1  | 0  | 1  | 1  | 0  | 0  | 1   | 5                 | 0   |
| 18 | Stefani           | 1    | 2             | 3          | 1           | 1  | 1  | 0  | 1  | 1  | 1  | 1  | 0  | 1   | 8                 | 1   |
| 19 | Arringgo          | 2    | 1             | 3          | 0           | 1  | 1  | 1  | 1  | 0  | 1  | 1  | 1  | 1   | 8                 | 0   |
| 20 | Muhammad          | 2    | 1             | 4          | 1           | 0  | 1  | 0  | 0  | 1  | 0  | 1  | 0  | 1   | 5                 | 0   |

|    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | Yopi      | 2 | 1 | 4 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 5 | 0 |
| 22 | Mesra     | 1 | 2 | 4 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 6 | 1 |
| 23 | Jailani   | 2 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 7 | 0 |
| 24 | Sukma     | 1 | 2 | 4 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 5 | 1 |
| 25 | Evans     | 2 | 1 | 3 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 5 | 1 |
| 26 | Indra     | 2 | 1 | 3 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 4 | 0 |
| 27 | Sri       | 1 | 2 | 4 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 8 | 1 |
| 28 | Hotma     | 3 | 2 | 3 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 5 | 0 |
| 29 | Madgalena | 1 | 2 | 3 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 7 | 1 |
| 30 | Rahmadani | 2 | 2 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 5 | 0 |
| 31 | Madani    | 2 | 2 | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 3 | 0 |
| 32 | Ladi      | 3 | 1 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 5 | 0 |
| 33 | Sante     | 3 | 1 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 4 | 0 |
| 34 | Nico      | 1 | 1 | 3 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 5 | 1 |
| 35 | Turanga   | 3 | 1 | 3 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 5 | 0 |
| 36 | Umikalsum | 4 | 1 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 5 | 0 |
| 37 | Dindra    | 3 | 1 | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 5 | 0 |
| 38 | Jekky     | 3 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 8 | 1 |
| 39 | Tauffik   | 3 | 1 | 3 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 6 | 1 |
| 40 | Jokky     | 2 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 5 | 0 |
| 41 | Murni     | 4 | 2 | 3 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 6 | 1 |
| 42 | Imom      | 2 | 1 | 3 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 5 | 0 |
| 43 | Niko      | 1 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 6 | 1 |
| 44 | Jaki      | 2 | 1 | 3 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 5 | 0 |
| 45 | Sikma     | 3 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 3 | 0 |
| 46 | Masri     | 3 | 2 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0 |
| 47 | Diono     | 3 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 3 | 0 |

|    |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 48 | Fanni    | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 4 | 0 |
| 49 | Murdiono | 3 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 4 | 0 |
| 50 | Kalsim   | 4 | 1 | 2 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |

| Sikap |    |    |    |    |    |    |    |    |     |     |     | Pengunaan APD |     |     |     |     |     |     |     |     |      |            |      |
|-------|----|----|----|----|----|----|----|----|-----|-----|-----|---------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------------|------|
| S1    | S2 | S3 | S4 | S5 | S6 | S7 | S8 | S9 | S10 | T.S | K.S | PA1           | PA2 | PA3 | PA4 | PA5 | PA6 | PA7 | PA8 | PA9 | PA10 | T.P<br>APD | K.PA |
| 1     | 0  | 1  | 1  | 0  | 0  | 0  | 1  | 1  | 0   | 5   | 0   | 1             | 0   | 1   | 0   | 0   | 0   | 1   | 1   | 1   | 1    | 6          | 1    |
| 1     | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 1  | 1   | 5   | 0   | 0             | 1   | 0   | 0   | 1   | 0   | 0   | 1   | 1   | 1    | 5          | 0    |
| 1     | 0  | 1  | 0  | 1  | 1  | 0  | 1  | 0  | 1   | 6   | 1   | 1             | 1   | 0   | 1   | 0   | 1   | 0   | 0   | 0   | 0    | 4          | 1    |
| 1     | 1  | 0  | 1  | 1  | 1  | 0  | 0  | 1  | 0   | 6   | 1   | 0             | 0   | 0   | 1   | 1   | 0   | 0   | 1   | 1   | 1    | 5          | 1    |
| 1     | 1  | 0  | 1  | 0  | 0  | 0  | 1  | 1  | 1   | 6   | 1   | 1             | 1   | 0   | 1   | 0   | 1   | 1   | 1   | 1   | 1    | 8          | 1    |
| 1     | 0  | 0  | 0  | 1  | 0  | 1  | 0  | 1  | 0   | 4   | 0   | 1             | 1   | 1   | 1   | 1   | 1   | 1   | 0   | 0   | 0    | 7          | 1    |
| 0     | 1  | 1  | 0  | 0  | 1  | 1  | 0  | 0  | 1   | 5   | 0   | 1             | 1   | 1   | 0   | 0   | 1   | 0   | 1   | 0   | 0    | 5          | 0    |
| 0     | 1  | 0  | 1  | 1  | 0  | 0  | 0  | 1  | 1   | 5   | 0   | 1             | 1   | 0   | 0   | 0   | 0   | 1   | 1   | 1   | 0    | 5          | 0    |
| 1     | 0  | 1  | 0  | 1  | 1  | 0  | 1  | 0  | 0   | 5   | 0   | 1             | 1   | 0   | 1   | 1   | 1   | 1   | 0   | 1   | 1    | 8          | 1    |
| 0     | 0  | 1  | 1  | 0  | 1  | 0  | 0  | 1  | 1   | 5   | 0   | 1             | 1   | 0   | 0   | 1   | 0   | 1   | 0   | 1   | 0    | 5          | 0    |
| 1     | 1  | 0  | 0  | 0  | 0  | 1  | 1  | 1  | 0   | 5   | 0   | 1             | 0   | 1   | 0   | 1   | 0   | 0   | 0   | 1   | 1    | 5          | 0    |
| 0     | 0  | 0  | 0  | 1  | 1  | 1  | 0  | 0  | 0   | 3   | 0   | 1             | 1   | 1   | 1   | 0   | 0   | 0   | 0   | 0   | 1    | 5          | 0    |
| 0     | 0  | 1  | 1  | 1  | 0  | 0  | 0  | 1  | 1   | 5   | 0   | 1             | 0   | 0   | 0   | 1   | 1   | 0   | 0   | 0   | 0    | 3          | 0    |
| 0     | 0  | 0  | 0  | 0  | 1  | 1  | 1  | 0  | 0   | 3   | 0   | 0             | 1   | 1   | 0   | 0   | 0   | 1   | 1   | 0   | 1    | 5          | 0    |
| 0     | 0  | 1  | 1  | 1  | 0  | 0  | 1  | 1  | 0   | 5   | 1   | 1             | 0   | 0   | 0   | 1   | 0   | 0   | 1   | 1   | 1    | 5          | 1    |
| 1     | 1  | 1  | 0  | 0  | 1  | 0  | 0  | 1  | 0   | 5   | 0   | 1             | 0   | 0   | 0   | 1   | 1   | 0   | 0   | 0   | 0    | 3          | 0    |
| 0     | 0  | 1  | 0  | 0  | 0  | 0  | 1  | 1  | 1   | 4   | 0   | 1             | 1   | 0   | 0   | 1   | 0   | 1   | 0   | 0   | 1    | 5          | 0    |
| 0     | 1  | 0  | 0  | 1  | 0  | 1  | 0  | 0  | 1   | 4   | 1   | 1             | 1   | 0   | 1   | 0   | 0   | 1   | 1   | 1   | 1    | 7          | 1    |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 8 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 5 | 0 |
| 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 5 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 6 | 1 |
| 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 5 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 5 | 0 |
| 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 5 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 8 | 1 |
| 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 6 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 5 | 0 |
| 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 8 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 5 | 0 |
| 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 5 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 5 | 0 |
| 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 5 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 5 | 0 |
| 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 5 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 5 | 1 |
| 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 6 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 4 | 0 |
| 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 5 | 0 |
| 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 4 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 5 | 0 |
| 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 5 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 6 | 1 |
| 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 6 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 5 | 0 |
| 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 4 | 0 |
| 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 5 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 6 | 1 |
| 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 5 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 5 | 0 |
| 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 6 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 5 | 0 |
| 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 5 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 5 | 0 |
| 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 9 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 8 | 1 |
| 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 7 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 5 | 1 |
| 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 4 | 0 |
| 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 5 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 7 | 1 |
| 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 7 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 5 | 0 |
| 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 5 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 4 | 1 |
| 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 5 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 5 | 0 |
| 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 5 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 5 | 0 |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 5 | 0 |
| 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 5 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 5 | 1 |
| 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 5 | 0 |
| 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 5 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 5 | 1 |
| 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 4 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 5 | 0 |

Lampiran

**DOKUMENTASI**  
**Proses Pengangkutan Kaca**



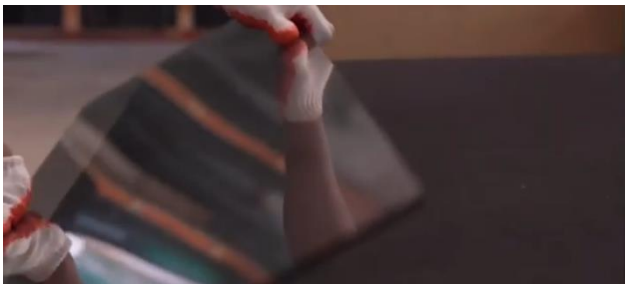
## Pemotongan Kaca Dengan Menggunakan Alat



## Pemotongan Kaca Manual



Pemisahan Pemotongan Kaca



## Proses Laminating Kaca





## Surat Ijin Penelitian



**KEMENTERIAN KESEHATAN REPUBLIK INDONESIA**  
**BADAN PENGEMBANGAN DAN PEMBERDAYAAN**  
**SUMBERDAYA MANUSIA KESEHATAN**  
**POLITEKNIK KESEHATAN KEMENKES MEDAN**

Jl. Jamin Ginting KM. 13,5 Kel. Lau Cih Medan Tuntungan Kode Pos : 20136  
Telepon : 061-8368633 - Fax : 061- 8368644  
Website : [www.poltekkes-medan.ac.id](http://www.poltekkes-medan.ac.id) , email : [poltekkes\\_medan@yahoo.com](mailto:poltekkes_medan@yahoo.com)



Nomor : KH.03.01/00.01/0168/2023  
Lampiran : -  
Perihal : Permohonan Ijin Lokasi Penelitian

Kabangjahe, 23 Juni 2023

Kepada Yth:  
Pimpinan PT.ESA SENTOSA Medan  
Di

Tempat.

Dengan Hormat,

Bersama ini datang menghadap Saudara, Mahasiswa Prodi Sarjana Terapan Sanitasi Lingkungan Jurusan Kesehatan Lingkungan :

Nama : Ernawati Eliezer Purba

NIM : P00933219010

Yang bermaksud akan mengambil data penelitian di Wilayah Kerja yang bapak/ibu pimpin dalam rangka menyusun Skripsi dengan Judul :

**"Hubungan Pengetahuan Dan Sikap Dengan Penggunaan Alat Pelindung Diri (APD) Di Pabrik Kaca PT Esa Sentosa Abadi Medan Tahun 2023"**

Perlu kami tambahkan bahwa penelitian ini digunakan semata-mata hanya untuk menyelesaikan tugas akhir dan perkembangan ilmu pengetahuan.

Demikian disampaikan atas perhatian Bapak/Ibu, diucapkan terima kasih.

Ketua Jurusan Kesehatan Lingkungan  
  
Haesti Sembiring, SST.M.Sc  
NIP. 197206181997032003

## Surat Balasan Ijin Penelitian



**PT ESA SENTOSA ABADI INDONESIA**

Jln. Kapten Sumarsono No.98, Kp. Lalang, Medan Helvetia  
Deli Serdang-Sumatera Utara, Indonesia, 20124  
Telp : 061-8444770 fax : 061-8444769

### SURAT BALASAN

No. : 001/ESA-HC/SB/VII/2023  
Perihal : Balasan Surat Izin Lokasi Penelitian

Kepada Yth:

**Ketua Jurusan Kesehatan Lingkungan  
Politeknik Kesehatan Kemenkes Medan  
di Tempat**

Dengan hormat,

Melalui surat ini kami dari **PT. Esa Sentosa Abadi Indonesia** menyampaikan bahwa mahasiswa yang tertera dibawah ini:

Nama : Ernawati Eliezer Purba  
N.I.M. : P00933219010  
Program Studi : Sarjana Terapan Sanitasi Lingkungan Jurusan Kesehatan Lingkungan

Diberikan izin untuk melakukan penelitian mengenai "Hubungan Pengetahuan dan Sikap dengan Penggunaan Alat Pelindung Diri (APD) di Pabrik Kaca PT Esa Sentosa Abadi Indonesia Medan Tahun 2023" mulai tanggal 26 Juni s/d 05 Juli 2023. Demikian surat ini kami sampaikan atas perhatian kami ucapkan terimakasih

Medan, 26 Juni 2023

Hormat Kami,

**Hotmaroli Marbun**  
*Human Capital Manager*

## Biodata Penulis



Nama : Ernawati Eliezer Purba  
Nim : P00933219010  
Tempat Tanggal Lahir : Medan, 12 Januari 1998  
Jenis Kelamin : Perempuan  
Agama : Kristen Katolik  
Anak Ke : Pertama dari 4 bersaudara  
Alamat : Dusun 4 Jln Balai Desa Gang Bersama NO 39  
Nama Ayah : Pantas Parutu Purba  
Nama Ibu : Sontiar Br Panggaribuan  
Status Mahasiswa : Umum  
Riwayat Pendidikan :  
3. SD ( 2010) : SD N 066049 Medan Helvetia  
4. SMP (2013) : SMP Swasta Eka Prasetya Medan  
5. SMA (2016) : SMA Swasta RK Mariana Medan  
6. Diploma D-IV (2019) : Politeknik Kesehatan RI Medan Jurusan Sanitasi Lingkungan