

## DAFTAR PUSTAKA

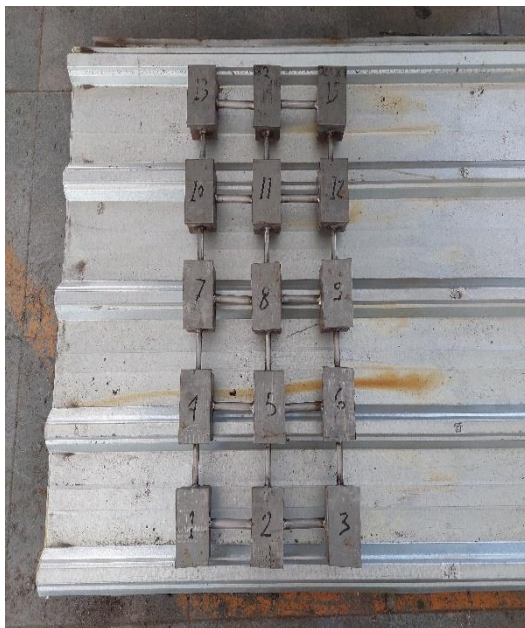
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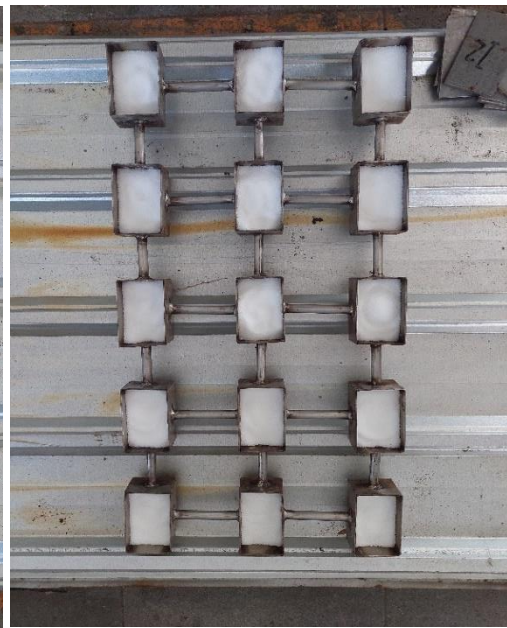
## LAMPIRAN

### Proses Pembuatan Bahan PCM

1. Siapkan Material sesuai berat perhitungannya : - Stearic Acid 55.08 gr  
- Silica/Aerogel 33.20 ml  
- Ethyl/Alkohol 60.43 ml
2. Siapkan Magnetic Stir With Heater
3. Campurkan Stearic Acid dengan Alkohol Panaskan dengan Temperatur 50°C dengan Rpm 3000 selama 30 menit.
4. Setelah 30 menit, Campurkan Silika Aerogel kedalam Campuran ( SA+Ethyl ) dengan Temperatur 65°C selama 90 Menit.
5. Setelah 90 menit, Masukkan Campuran ( SA+Ethyl+Silica Aerogel ) kedalam Cetakan.



Tempat PCM *Stearic Acid*














*Stearic Acid Murni*

Pengambilan Data Tanpa Perlakuan PCM Hari ke – 1 ( Rabu 19 Juli 2023 )





















NO	Jam (WIB)	Sensor Suhu Temperatur	Intensitas Cahaya (Watt/m <sup>2</sup> )	Kecepatan Angin (m/s)
1.	07.00			
2.	08.00			
3.	09.00			



<p>4.</p>	<p>10.00</p>	 <p>Tegal Timur, Central Java, Indonesia 440048P, 1064877P, Tegal Timur, Tega Cj, Central Java 5110, Indonesia Lat -6.81667 Long 1064877P 18/02/23 12:00 AM GMT+07:30</p>	 <p>Tegal Timur, Central Java, Indonesia 440048P, 1064877P, Tegal Timur, Tega Cj, Central Java 5110, Indonesia Lat -6.81667 Long 1064877P 18/02/23 12:00 AM GMT+07:30</p>	 <p>Tegal Timur, Central Java, Indonesia 440048P, 1064877P, Tegal Timur, Tega Cj, Central Java 5110, Indonesia Lat -6.81667 Long 1064877P 18/02/23 12:00 AM GMT+07:30</p>
<p>5.</p>	<p>11.00</p>	 <p>Tegal Timur, Central Java, Indonesia 440048P, 1064877P, Tegal Timur, Tega Cj, Central Java 5110, Indonesia Lat -6.81667 Long 1064877P 18/02/23 12:00 AM GMT+07:30</p>	 <p>Tegal Timur, Central Java, Indonesia 440048P, 1064877P, Tegal Timur, Tega Cj, Central Java 5110, Indonesia Lat -6.81667 Long 1064877P 18/02/23 12:00 AM GMT+07:30</p>	 <p>Tegal Timur, Central Java, Indonesia 440048P, 1064877P, Tegal Timur, Tega Cj, Central Java 5110, Indonesia Lat -6.81667 Long 1064877P 18/02/23 12:00 AM GMT+07:30</p>
<p>6.</p>	<p>12.00</p>	 <p>Tegal Timur, Central Java, Indonesia 440048P, 1064877P, Tegal Timur, Tega Cj, Central Java 5110, Indonesia Lat -6.81667 Long 1064877P 18/02/23 12:00 PM GMT+07:30</p>	 <p>Tegal Timur, Central Java, Indonesia 440048P, 1064877P, Tegal Timur, Tega Cj, Central Java 5110, Indonesia Lat -6.81667 Long 1064877P 18/02/23 12:00 PM GMT+07:30</p>	 <p>Tegal Timur, Central Java, Indonesia 440048P, 1064877P, Tegal Timur, Tega Cj, Central Java 5110, Indonesia Lat -6.81667 Long 1064877P 18/02/23 12:00 PM GMT+07:30</p>
<p>7.</p>	<p>13.00</p>	 <p>Tegal Timur, Central Java, Indonesia 440048P, 1064877P, Tegal Timur, Tega Cj, Central Java 5110, Indonesia Lat -6.81667 Long 1064877P 18/02/23 01:00 PM GMT+07:30</p>	 <p>Tegal Timur, Central Java, Indonesia 440048P, 1064877P, Tegal Timur, Tega Cj, Central Java 5110, Indonesia Lat -6.81667 Long 1064877P 18/02/23 01:00 PM GMT+07:30</p>	 <p>Tegal Timur, Central Java, Indonesia 440048P, 1064877P, Tegal Timur, Tega Cj, Central Java 5110, Indonesia Lat -6.81667 Long 1064877P 18/02/23 01:00 PM GMT+07:30</p>
<p>8.</p>	<p>14.00</p>	 <p>Kecamatan Tegal Timur Jawa Tengah Indonesia 31°C 2023-07-19 (Rab) 02:01 (PM) 88°F</p>	 <p>Kecamatan Tegal Timur Jawa Tengah Indonesia 31°C 2023-07-19 (Rab) 02:01 (PM) 88°F</p>	 <p>Kecamatan Tegal Timur Jawa Tengah Indonesia 31°C 2023-07-19 (Rab) 02:01 (PM) 88°F</p>
<p>9.</p>	<p>15.00</p>	 <p>Tegal Timur, Central Java, Indonesia 440048P, 1064877P, Tegal Timur, Tega Cj, Central Java 5110, Indonesia Lat -6.81667 Long 1064877P 18/02/23 03:00 PM GMT+07:30</p>	 <p>Tegal Timur, Central Java, Indonesia 440048P, 1064877P, Tegal Timur, Tega Cj, Central Java 5110, Indonesia Lat -6.81667 Long 1064877P 18/02/23 03:00 PM GMT+07:30</p>	 <p>Tegal Timur, Central Java, Indonesia 440048P, 1064877P, Tegal Timur, Tega Cj, Central Java 5110, Indonesia Lat -6.81667 Long 1064877P 18/02/23 03:00 PM GMT+07:30</p>









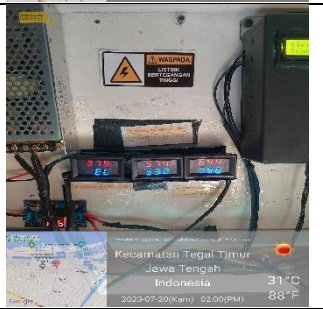











<p>10.</p>	<p>16.00</p>			
<p>11.</p>	<p>17.00</p>			
<p>12.</p>	<p>18.00</p>			
<p>13.</p>	<p>19.00</p>			
<p>14.</p>	<p>20.00</p>			
<p>15.</p>	<p>21.00</p>			



Pengambilan Data Tanpa Perlakuan PCM Hari Ke – 2 ( Kamis 20 Juli 2023 )

NO	Jam (WIB)	Sensor Suhu Temperatur	Intensitas Cahaya (Watt/m <sup>2</sup> )	Kecepatan Angin (m/s)
1.	07.00			
2.	08.00			
3.	09.00			
4.	10.00			
5.	11.00			


















6	12.00	 <p>Tegal Timur, Central Java, Indonesia          10054800, 10845499, Tegal Timur, Tega Cto, Central Java 51102, Indonesia          12-4-2024          Long 105.546770°          2023-07-20 (Kam) 00:00:00</p>	 <p>Tegal Timur, Central Java, Indonesia          10054800, 10845499, Tegal Timur, Tega Cto, Central Java 51102, Indonesia          12-4-2024          Long 105.546770°          2023-07-20 (Kam) 00:00:00</p>	 <p>Tegal Timur, Central Java, Indonesia          10054800, 10845499, Tegal Timur, Tega Cto, Central Java 51102, Indonesia          12-4-2024          Long 105.546770°          2023-07-20 (Kam) 00:00:00</p>
7	13.00	 <p>Kecamatan Tegal Timur          Jawa Tengah          Indonesia 31°C          88°F          2023-07-20 (Kam) 01:00:00</p>	 <p>Kecamatan Tegal Timur          Jawa Tengah          Indonesia 31°C          88°F          2023-07-20 (Kam) 01:00:00</p>	 <p>Kecamatan Tegal Timur          Jawa Tengah          Indonesia 31°C          88°F          2023-07-20 (Kam) 01:00:00</p>
8	14.00	 <p>Kecamatan Tegal Timur          Jawa Tengah          Indonesia 31°C          88°F          2023-07-20 (Kam) 02:00:00</p>	 <p>Kecamatan Tegal Timur          Jawa Tengah          Indonesia 31°C          88°F          2023-07-20 (Kam) 02:00:00</p>	 <p>Kecamatan Tegal Timur          Jawa Tengah          Indonesia 31°C          88°F          2023-07-20 (Kam) 02:00:00</p>
9	15.00	 <p>Tegal Timur, Central Java, Indonesia          10054800, 10845499, Tegal Timur, Tega Cto, Central Java 51102, Indonesia          12-4-2024          Long 105.546770°          2023-07-20 (Kam) 03:30:00</p>	 <p>Tegal Timur, Central Java, Indonesia          10054800, 10845499, Tegal Timur, Tega Cto, Central Java 51102, Indonesia          12-4-2024          Long 105.546770°          2023-07-20 (Kam) 03:30:00</p>	 <p>Tegal Timur, Central Java, Indonesia          10054800, 10845499, Tegal Timur, Tega Cto, Central Java 51102, Indonesia          12-4-2024          Long 105.546770°          2023-07-20 (Kam) 03:30:00</p>
10	16.00	 <p>Kecamatan Tegal Timur, Jawa Tengah, Indonesia          10054800, 10845499, Kecamatan Tegal Timur, Tegal Timur, Kula Tegal, Jawa Tengah 51111, Indonesia          12-4-2024          Long 105.546770°          2023-07-20 (Kam) 04:00:00</p>	 <p>Kecamatan Tegal Timur, Jawa Tengah, Indonesia          10054800, 10845499, Kecamatan Tegal Timur, Tegal Timur, Kula Tegal, Jawa Tengah 51111, Indonesia          12-4-2024          Long 105.546770°          2023-07-20 (Kam) 04:00:00</p>	 <p>Kecamatan Tegal Timur, Jawa Tengah, Indonesia          10054800, 10845499, Kecamatan Tegal Timur, Tegal Timur, Kula Tegal, Jawa Tengah 51111, Indonesia          12-4-2024          Long 105.546770°          2023-07-20 (Kam) 04:00:00</p>
11	17.00	 <p>Tegal Timur, Central Java, Indonesia          10054800, 10845499, Tegal Timur, Tega Cto, Central Java 51102, Indonesia          12-4-2024          Long 105.546770°          2023-07-20 (Kam) 05:00:00</p>	 <p>Tegal Timur, Central Java, Indonesia          10054800, 10845499, Tegal Timur, Tega Cto, Central Java 51102, Indonesia          12-4-2024          Long 105.546770°          2023-07-20 (Kam) 05:00:00</p>	 <p>Tegal Timur, Central Java, Indonesia          10054800, 10845499, Tegal Timur, Tega Cto, Central Java 51102, Indonesia          12-4-2024          Long 105.546770°          2023-07-20 (Kam) 05:00:00</p>


























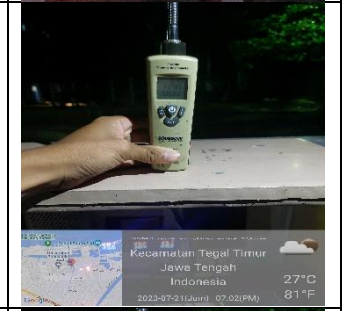








Pengambilan Data Tanpa Perlakuan PCM Hari Ke – 3 ( Jum'at 21 Juli 2023 )

NO	Jam (WIB)	Sensor Suhu Temperatur	Intensitas Cahaya (Watt/m <sup>2</sup> )	Kecepatan Angin (m/s)
1.	07.00	 <p>Tegal Timur, Central Java, Indonesia                      69004766, 11046497, Tegal Timur, Tega City, Central Java 52121, Indonesia                      12-4-858101                      Long: 105.546779°                      216739 87.94 AM GMT+7:30</p>	 <p>Tegal Timur, Central Java, Indonesia                      69004766, 11046497, Tegal Timur, Tega City, Central Java 52121, Indonesia                      12-4-858101                      Long: 105.546779°                      216739 87.94 AM GMT+7:30</p>	 <p>Tegal Timur, Central Java, Indonesia                      69004766, 11046497, Tegal Timur, Tega City, Central Java 52121, Indonesia                      12-4-858101                      Long: 105.546779°                      216739 87.94 AM GMT+7:30</p>
2.	08.00	 <p>Tegal Timur, Central Java, Indonesia                      69004766, 11046497, Tegal Timur, Tega City, Central Java 52121, Indonesia                      12-4-858101                      Long: 105.546779°                      216739 87.94 AM GMT+7:30</p>	 <p>Tegal Timur, Central Java, Indonesia                      69004766, 11046497, Tegal Timur, Tega City, Central Java 52121, Indonesia                      12-4-858101                      Long: 105.546779°                      216739 87.94 AM GMT+7:30</p>	 <p>Tegal Timur, Central Java, Indonesia                      69004766, 11046497, Tegal Timur, Tega City, Central Java 52121, Indonesia                      12-4-858101                      Long: 105.546779°                      216739 87.94 AM GMT+7:30</p>
3.	09.00	 <p>Tegal Timur, Central Java, Indonesia                      69004766, 11046497, Tegal Timur, Tega City, Central Java 52121, Indonesia                      12-4-858101                      Long: 105.546779°                      216739 87.94 AM GMT+7:30</p>	 <p>Tegal Timur, Central Java, Indonesia                      69004766, 11046497, Tegal Timur, Tega City, Central Java 52121, Indonesia                      12-4-858101                      Long: 105.546779°                      216739 87.94 AM GMT+7:30</p>	 <p>Tegal Timur, Central Java, Indonesia                      69004766, 11046497, Tegal Timur, Tega City, Central Java 52121, Indonesia                      12-4-858101                      Long: 105.546779°                      216739 87.94 AM GMT+7:30</p>
4.	10.00	 <p>Tegal Timur, Central Java, Indonesia                      69004766, 11046497, Tegal Timur, Tega City, Central Java 52121, Indonesia                      12-4-858101                      Long: 105.546779°                      216739 87.94 AM GMT+7:30</p>	 <p>Tegal Timur, Central Java, Indonesia                      69004766, 11046497, Tegal Timur, Tega City, Central Java 52121, Indonesia                      12-4-858101                      Long: 105.546779°                      216739 87.94 AM GMT+7:30</p>	 <p>Tegal Timur, Central Java, Indonesia                      69004766, 11046497, Tegal Timur, Tega City, Central Java 52121, Indonesia                      12-4-858101                      Long: 105.546779°                      216739 87.94 AM GMT+7:30</p>
5.	11.00	 <p>Tegal Timur, Central Java, Indonesia                      69004766, 11046497, Tegal Timur, Tega City, Central Java 52121, Indonesia                      12-4-858101                      Long: 105.546779°                      216739 87.94 AM GMT+7:30</p>	 <p>Tegal Timur, Central Java, Indonesia                      69004766, 11046497, Tegal Timur, Tega City, Central Java 52121, Indonesia                      12-4-858101                      Long: 105.546779°                      216739 87.94 AM GMT+7:30</p>	 <p>Tegal Timur, Central Java, Indonesia                      69004766, 11046497, Tegal Timur, Tega City, Central Java 52121, Indonesia                      12-4-858101                      Long: 105.546779°                      216739 87.94 AM GMT+7:30</p>



<p>6</p> <p>12.00</p>			
<p>7</p> <p>13.00</p>			
<p>8.</p> <p>14.00</p>			
<p>9.</p> <p>15.00</p>			
<p>10.</p> <p>16.00</p>			
<p>11.</p> <p>17.00</p>			

12.	18.00			
13.	19.00			
14.	20.00			
15.	21.00			









Pengambilan Data PCM *Stearic Acid* Hari ke – 1 ( Kamis 27 Juli 2023 )



NO	Jam (WIB)	Sensor Suhu Temperatur	Intensitas Cahaya (Watt/m <sup>2</sup> )	Kecepatan Angin (m/s)
1.	07.00			
2.	08.00			
3.	09.00			


















4.	10.00			
5.	11.00			
6.	12.00			
7.	13.00			
8.	14.00			
9.	15.00			

















Pengambilan Data PCM *Stearic Acid* Hari ke – 2 ( Jum'at 28 Juli 2023 )

NO	Jam (WIB)	Sensor Suhu Temperatur	Intensitas Cahaya (Watt/m <sup>2</sup> )	Kecepatan Angin (m/s)
1.	07.00	 <p>Tegal Timur, Central Java, Indonesia                      69.634186° S, 106.849187° E                      106.849187° E, 69.634186° S                      7863782.8737 AM GMT +07:00</p>	 <p>Tegal Timur, Central Java, Indonesia                      69.634186° S, 106.849187° E                      106.849187° E, 69.634186° S                      7863782.8737 AM GMT +07:00</p>	 <p>Tegal Timur, Central Java, Indonesia                      69.634186° S, 106.849187° E                      106.849187° E, 69.634186° S                      7863782.8737 AM GMT +07:00</p>
2.	08.00	 <p>Tegal Timur, Central Java, Indonesia                      69.634186° S, 106.849187° E                      106.849187° E, 69.634186° S                      7863782.8737 AM GMT +07:00</p>	 <p>Tegal Timur, Central Java, Indonesia                      69.634186° S, 106.849187° E                      106.849187° E, 69.634186° S                      7863782.8737 AM GMT +07:00</p>	 <p>Tegal Timur, Central Java, Indonesia                      69.634186° S, 106.849187° E                      106.849187° E, 69.634186° S                      7863782.8737 AM GMT +07:00</p>
3.	09.00	 <p>Tegal Timur, Central Java, Indonesia                      69.634186° S, 106.849187° E                      106.849187° E, 69.634186° S                      7863782.8737 AM GMT +07:00</p>	 <p>Tegal Timur, Central Java, Indonesia                      69.634186° S, 106.849187° E                      106.849187° E, 69.634186° S                      7863782.8737 AM GMT +07:00</p>	 <p>Tegal Timur, Central Java, Indonesia                      69.634186° S, 106.849187° E                      106.849187° E, 69.634186° S                      7863782.8737 AM GMT +07:00</p>
4.	10.00	 <p>Tegal Timur, Central Java, Indonesia                      69.634186° S, 106.849187° E                      106.849187° E, 69.634186° S                      7863782.8737 AM GMT +07:00</p>	 <p>Tegal Timur, Central Java, Indonesia                      69.634186° S, 106.849187° E                      106.849187° E, 69.634186° S                      7863782.8737 AM GMT +07:00</p>	 <p>Tegal Timur, Central Java, Indonesia                      69.634186° S, 106.849187° E                      106.849187° E, 69.634186° S                      7863782.8737 AM GMT +07:00</p>
5.	11.00	 <p>Tegal Timur, Central Java, Indonesia                      69.634186° S, 106.849187° E                      106.849187° E, 69.634186° S                      7863782.8737 AM GMT +07:00</p>	 <p>Tegal Timur, Central Java, Indonesia                      69.634186° S, 106.849187° E                      106.849187° E, 69.634186° S                      7863782.8737 AM GMT +07:00</p>	 <p>Tegal Timur, Central Java, Indonesia                      69.634186° S, 106.849187° E                      106.849187° E, 69.634186° S                      7863782.8737 AM GMT +07:00</p>




















12.	18.00			
13.	19.00			
14.	20.00			
15.	21.00			










Pengambilan Data PCM *Stearic Acid* Hari ke – 3 ( Sabtu 29 Juli 2023 )

NO	Jam (WIB)	Sensor Suhu Temperatur	Intensitas Cahaya (Watt/m <sup>2</sup> )	Kecepatan Angin (m/s)
1.	07.00			
2.	08.00			
3.	09.00			
4.	10.00			
5.	11.00			







<p>12.</p>	<p>18.00</p>	 <p>GPS Map Camera Kecamatan Tegay Timur, Jawa Tengah, Indonesia 03524972965 (Sab, 07:01 (PM)) 2022-07-29 (Sab) 07:01 (PM) Longitude: 108.188785 Latitude: 69.003000 PM GMT +07:00</p>	 <p>GPS Map Camera Kecamatan Tegay Timur, Jawa Tengah, Indonesia 03524972965 (Sab, 07:01 (PM)) 2022-07-29 (Sab) 07:01 (PM) Longitude: 108.188785 Latitude: 69.003000 PM GMT +07:00</p>	 <p>GPS Map Camera Kecamatan Tegay Timur, Jawa Tengah, Indonesia 03524972965 (Sab, 07:01 (PM)) 2022-07-29 (Sab) 07:01 (PM) Longitude: 108.188785 Latitude: 69.003000 PM GMT +07:00</p>
<p>13.</p>	<p>19.00</p>	 <p>GPS Map Camera Kecamatan Tegay Timur, Jawa Tengah, Indonesia 03524972965 (Sab, 07:01 (PM)) 2022-07-29 (Sab) 07:01 (PM) Longitude: 108.188785 Latitude: 69.003000 PM GMT +07:00</p>	 <p>GPS Map Camera Kecamatan Tegay Timur, Jawa Tengah, Indonesia 03524972965 (Sab, 07:01 (PM)) 2022-07-29 (Sab) 07:01 (PM) Longitude: 108.188785 Latitude: 69.003000 PM GMT +07:00</p>	 <p>GPS Map Camera Kecamatan Tegay Timur, Jawa Tengah, Indonesia 03524972965 (Sab, 07:01 (PM)) 2022-07-29 (Sab) 07:01 (PM) Longitude: 108.188785 Latitude: 69.003000 PM GMT +07:00</p>
<p>14.</p>	<p>20.00</p>	 <p>GPS Map Camera Kecamatan Tegay Timur, Jawa Tengah, Indonesia 03524972965 (Sab, 07:01 (PM)) 2022-07-29 (Sab) 07:01 (PM) Longitude: 108.188785 Latitude: 69.003000 PM GMT +07:00</p>	 <p>GPS Map Camera Kecamatan Tegay Timur, Jawa Tengah, Indonesia 03524972965 (Sab, 07:01 (PM)) 2022-07-29 (Sab) 07:01 (PM) Longitude: 108.188785 Latitude: 69.003000 PM GMT +07:00</p>	 <p>GPS Map Camera Kecamatan Tegay Timur, Jawa Tengah, Indonesia 03524972965 (Sab, 07:01 (PM)) 2022-07-29 (Sab) 07:01 (PM) Longitude: 108.188785 Latitude: 69.003000 PM GMT +07:00</p>
<p>15.</p>	<p>21.00</p>	 <p>GPS Map Camera Kecamatan Tegay Timur, Jawa Tengah, Indonesia 03524972965 (Sab, 07:01 (PM)) 2022-07-29 (Sab) 07:01 (PM) Longitude: 108.188785 Latitude: 69.003000 PM GMT +07:00</p>	 <p>GPS Map Camera Kecamatan Tegay Timur, Jawa Tengah, Indonesia 03524972965 (Sab, 07:01 (PM)) 2022-07-29 (Sab) 07:01 (PM) Longitude: 108.188785 Latitude: 69.003000 PM GMT +07:00</p>	 <p>GPS Map Camera Kecamatan Tegay Timur, Jawa Tengah, Indonesia 03524972965 (Sab, 07:01 (PM)) 2022-07-29 (Sab) 07:01 (PM) Longitude: 108.188785 Latitude: 69.003000 PM GMT +07:00</p>