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**LAMPIRAN**

**DOKUMENTASI UJI BAHAN MATERIAL**

PENGUJIAN KADAR LUMPUR PASIR CIMALAKA DAN PASIR BESI

|  |  |
| --- | --- |
|  |  |
| 1. Persiapan sampel Pasir Cimalaka | 2. Sampel kadar lumpur pasir Cimalaka |
|  |  |
| 3. Sampel Kadar Lumpur Pasir Besi | 4. Sampel Kadar Lumpur Pasir Besi |

PENGUJIAN KADAR AIR PASIR CIMALAKA DAN PASIR BESI

|  |  |
| --- | --- |
|  |  |
| 1. Berat Awal Pasir Cimalaka | 2. Proses Pengeringan Pasir Cimalaka |

|  |
| --- |
|  |
| 3. Berat Akhir Pasir Cimalaka. |

|  |
| --- |
|  |
| 1. Proses Pengeringan Pasir Besi |

|  |  |
| --- | --- |
|  |  |
| Hasil Pasir Besi Sesudah di Keringkan | Hasil Pasir Besi Sesudah di Keringkan |

PENGUJIAN GRADASI AGREGAT KASAR

|  |  |
| --- | --- |
|  |  |
| Persiapan Gradasi | Proses Ayakan |

PENGUJIAN ABRASI DENGAN *LA MACHINE*

|  |  |
| --- | --- |
|  |  |
| Persiapan Abrasi | Proses Persiapan Ayakan |

|  |
| --- |
|  |
| Proses Ayakan |

PENGUJIAN BERAT JENIS DAN PENYERAPAN AIR PASIR CIMALAKA DAN PASIR BESI.

|  |  |
| --- | --- |
|  |  |
| Berat Jenis dan Penyerapan Air | Berat Jenis dan Penyerapan Air |
|  |  |
| Berat Awal Pasir Cimalaka | Berat Akhir Pasir Cimalaka |

|  |  |
| --- | --- |
|  |  |
| Proses memasukkan Pasir Cimalaka Kedalam Picknometer | Proses memasukkan Pasir Cimalaka Kedalam Picknometer |

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Berat Picknometer | Berat Picnometer + Air | Berat Picknometer + Pasir Cimalaka |

|  |  |
| --- | --- |
|  |  |
| Berat Picknometer + air + SSD | Berat Picknometer + air + SSD |

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Berat Awal Pasir Besi | Berat Akhir Pasir Besi | Berat Akhir Pasir Besi |

|  |  |
| --- | --- |
|  |  |
| Berat Picknometer + Air + Pasir Besi | Berat Picknometer + Air + Pasir Besi |

PENGUJIAN KADAR GARAM PASIR BESI

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Berat Awal Pasir Besi | Pasir Besi sebelum Dicuci | Sediakan 600 ml air |
|  |  |  |
| Pencucian Pertama | Kadar garam 1x pencucian | Pencucian kedua |

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Kadar Garam 2x Pencucian | Pencucian Ketiga | Kadar Garam 3x Pencucian |

|  |  |
| --- | --- |
|  |  |
| Pencucian Keempat | Kadar Garam 4x Pencucian |

PENGUJIAN KADAR LUMPUR AGREGAT KASAR

|  |  |
| --- | --- |
|  |  |
| Proses Penimbangan Split 2-3 | Berat Awal Split 2-3 |

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Berat Akhir Split 2-3 | Berat Awal Split 1-2 | Berat Akhir Split 1-2 |

PENGUJIAN KADAR AIR AGREGAT KASAR

|  |  |
| --- | --- |
|  |  |
| Berat Awal Agregat | Berat Akhir Agregat |
|  |  |
| Berat Awal Agregat | Berat Akhir Agregat |

**DOKUMENTASI PEMBUATAN CAMPURAN BETON**

Dokumentasi pembuatan beton adalah berbentuk Vidio.Untuk melihat dokumentasi pembuatan campuran beton dapat melihat di link berikut.

<https://drive.google.com/file/d/1aleCAmoE01czlNFOL4Ymt1LKKNR90ZcP/view?usp=drivesdk>

<https://drive.google.com/file/d/1b5oLH9U4cB33kzSgEuQCAvg8E0MElnD0/view?usp=drivesdk>

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https://drive.google.com/file/d/1agkuMv9axnW3b\_7jknck3axS5KPWwWZB/view?usp=drivesdk

|  |  |  |
| --- | --- | --- |
|  |  |  |
| SPLIT 1-2 dan 2-3 | Pasir Besi | Semen Tiga Roda |
|  |  |  |
| Proses *Slump* | Proses *Slump* | Proses *Slump* |

|  |  |
| --- | --- |
|  |  |
| Proses *Slump* | Proses *Slump* |
|  |  |
| Proses Loading | Contoh Sampel |

**DOKUMENTASI HASIL UJI KUAT TEKAN BETON**

* Beton Normal

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Beton Normal | Beton Normal | Beton Normal |
|  |  |  |
| Beton Normal | Beton Normal | Beton Normal |

* Pasir Besi 10 %
* Pasir Besi 10 % Umur 7 Hari

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Sampel 1 | Sampel 2 | Sampel 3 |

* Pasir Besi 10 % Umur 21 Hari

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Sampel 1 | Sampel 2 | Sampel 3 |

* Pasir Besi 10 % Umur 28 Hari

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Sampel 1 | Sampel 2 | Sampel 3 |

* Pasir Besi 20 %
* Pasir Besi 20 % Umur 7 Hari

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Sampel 1 | Sampel 2 | Sampel 3 |

* Pasir Besi 20 % Umur 21 Hari

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Sampel 1 | Sampel 2 | Sampel 3 |

* Pasir Besi 20 % Umur 28 Hari

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Sampel 1 | Sampel 2 | Sampel 3 |

* Pasir Besi 30 %
* Pasir Besi 30 % Umur 7 Hari

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Sampel 1 | Sampel 2 | Sampel 3 |

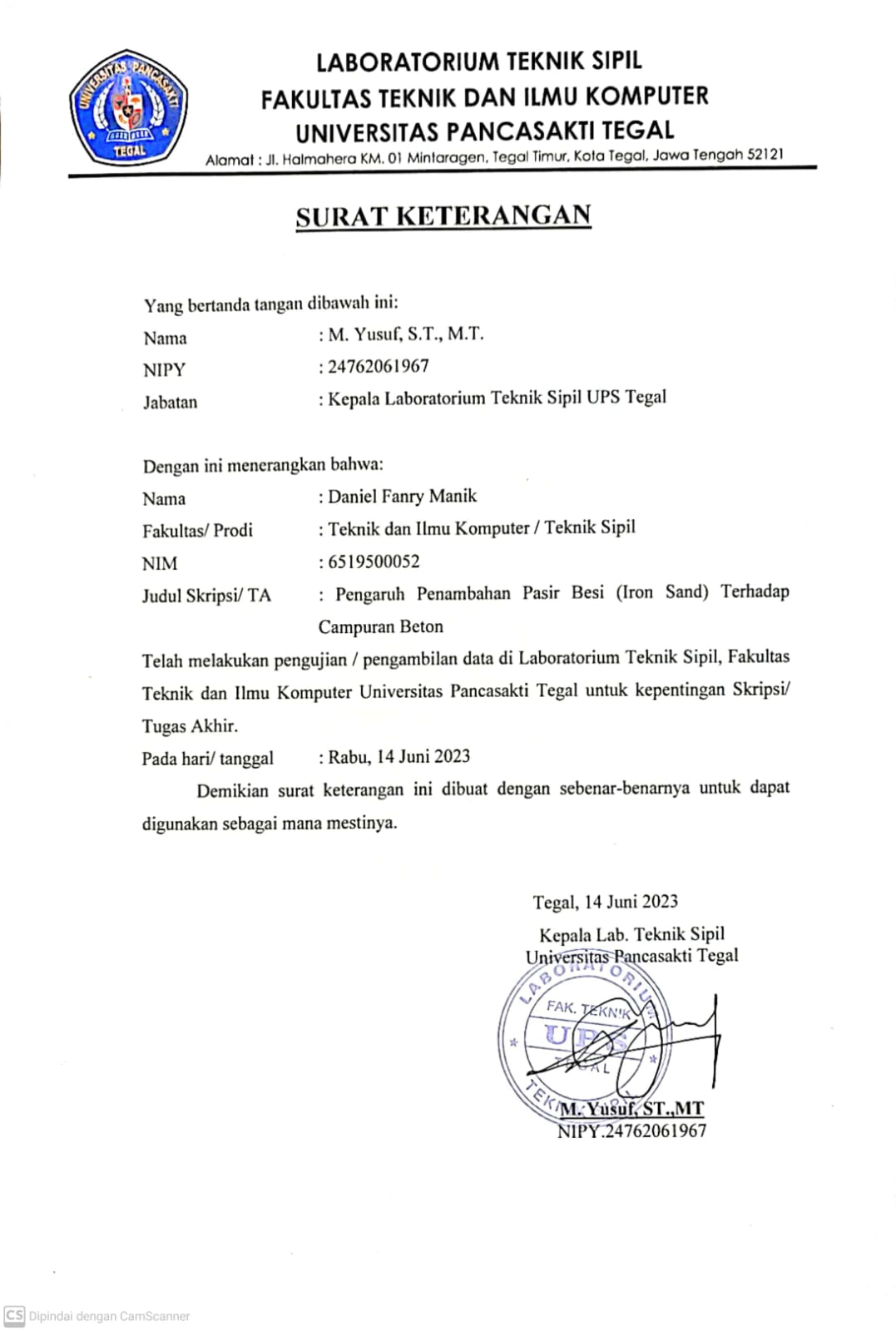
* Pasir Besi 30 % Umur 21 Hari

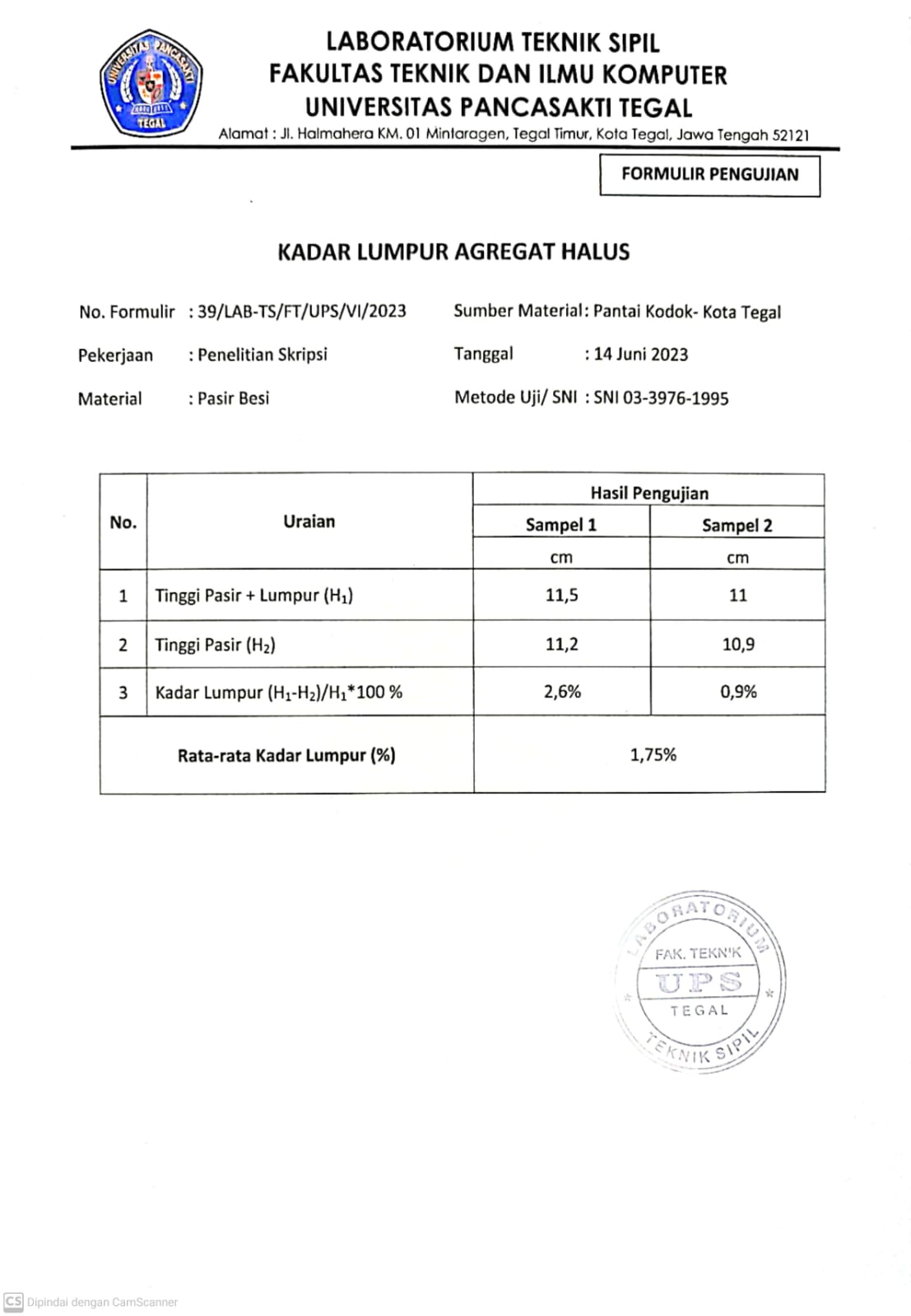
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| --- | --- | --- |
|  |  |  |
| Sampel 1 | Sampel 2 | Sampel 3 |

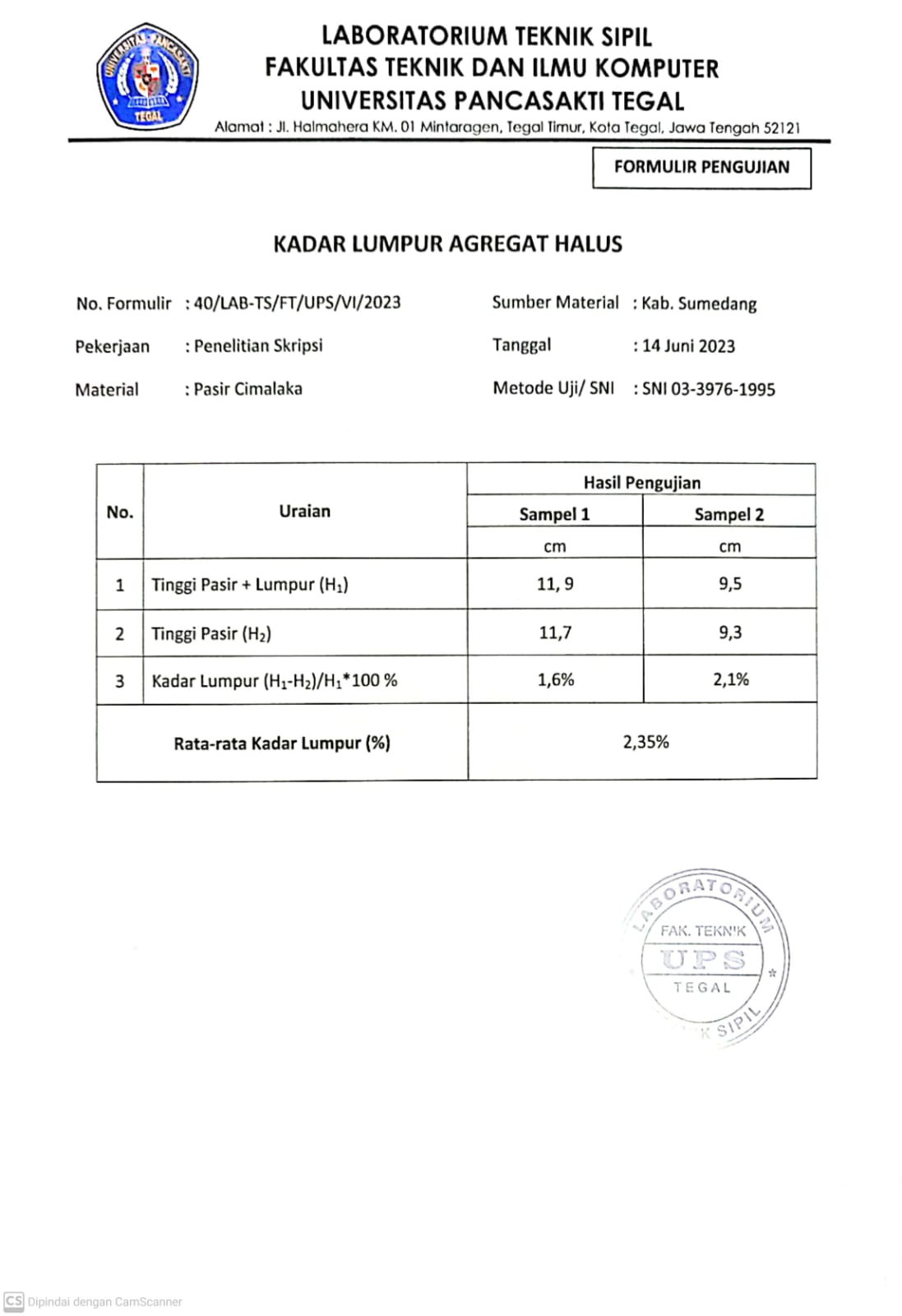
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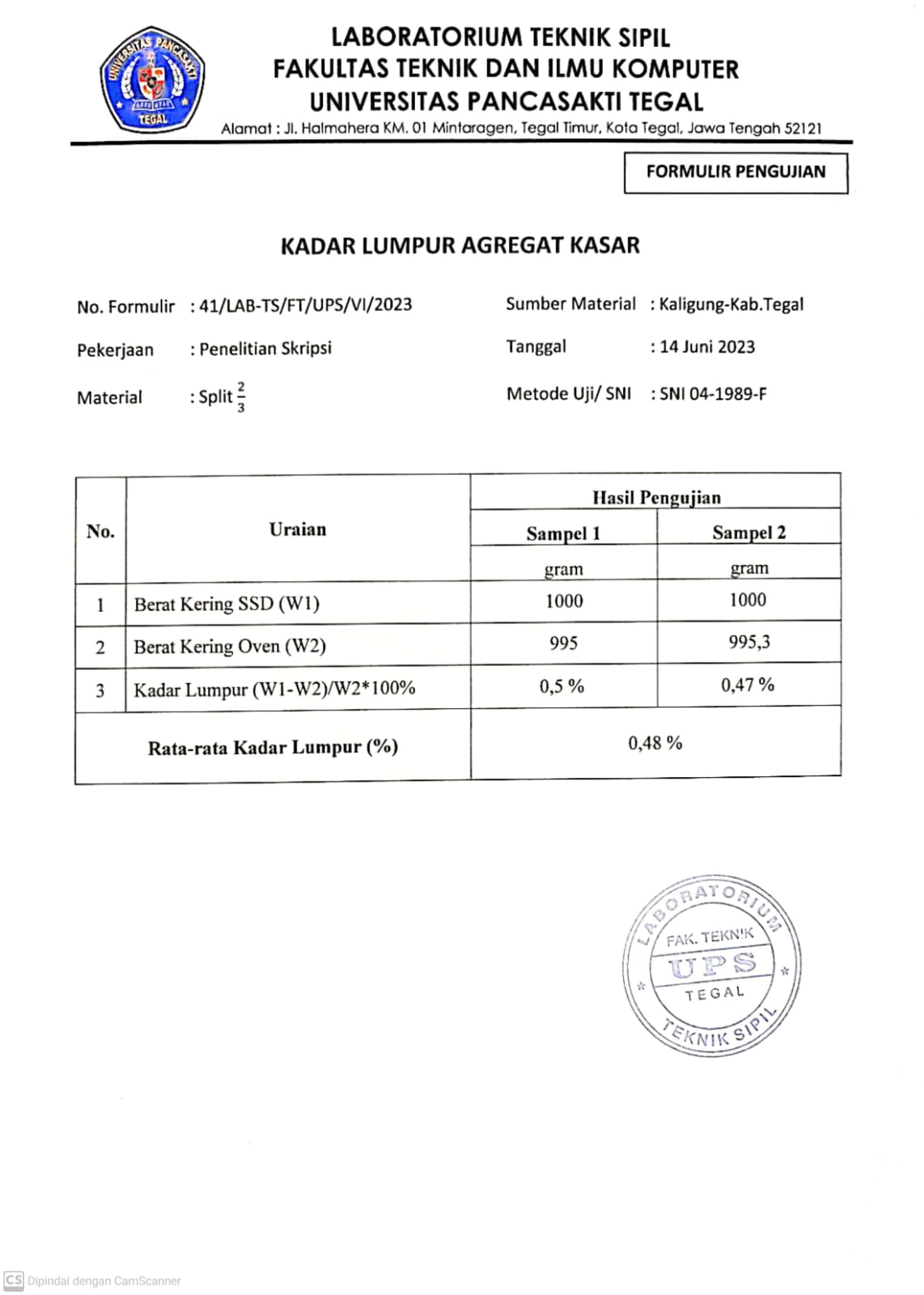
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| --- | --- | --- |
|  |  |  |
| Sampel 1 | Sampel 2 | Sampel 3 |

**LAMPIRAN 2.**

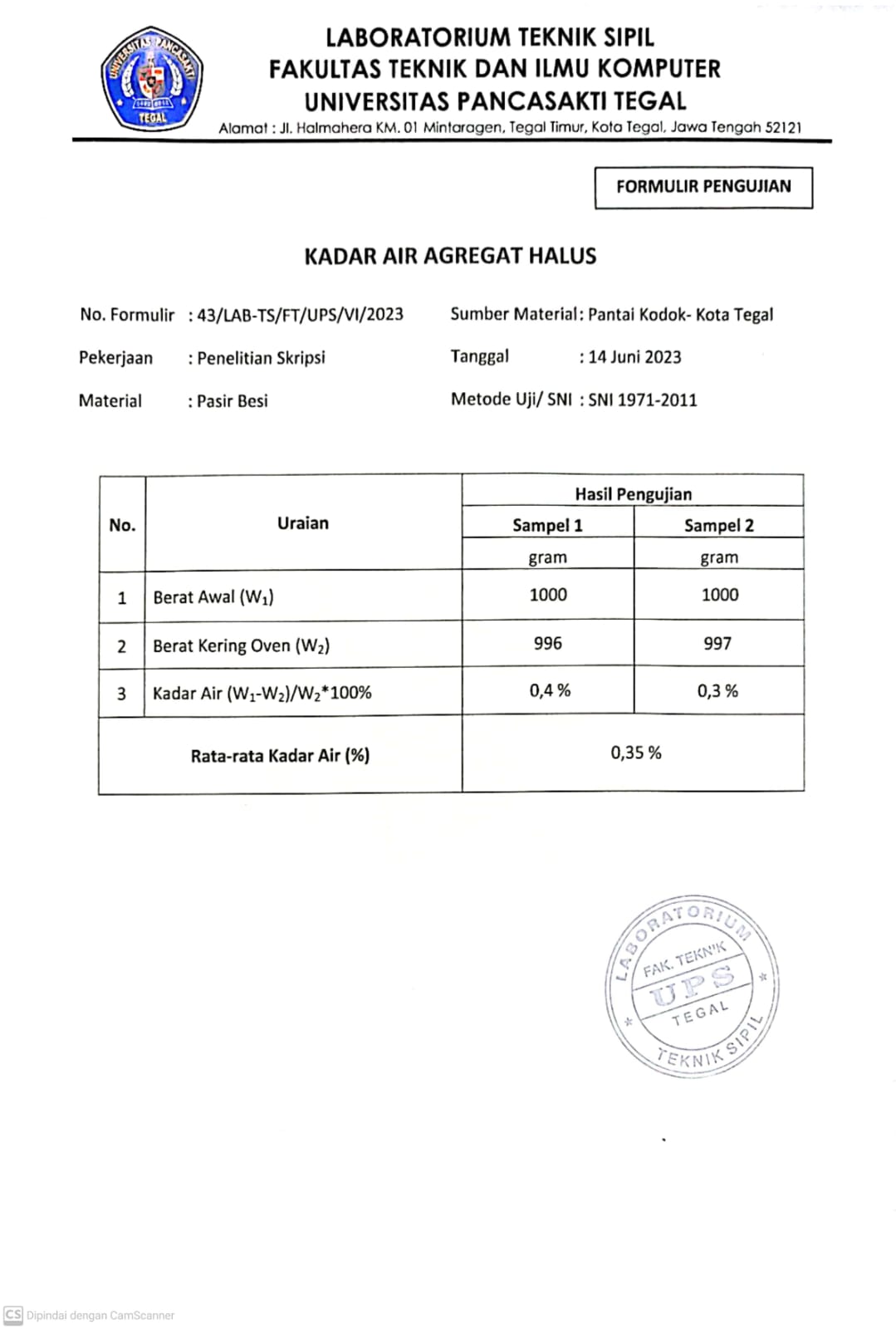
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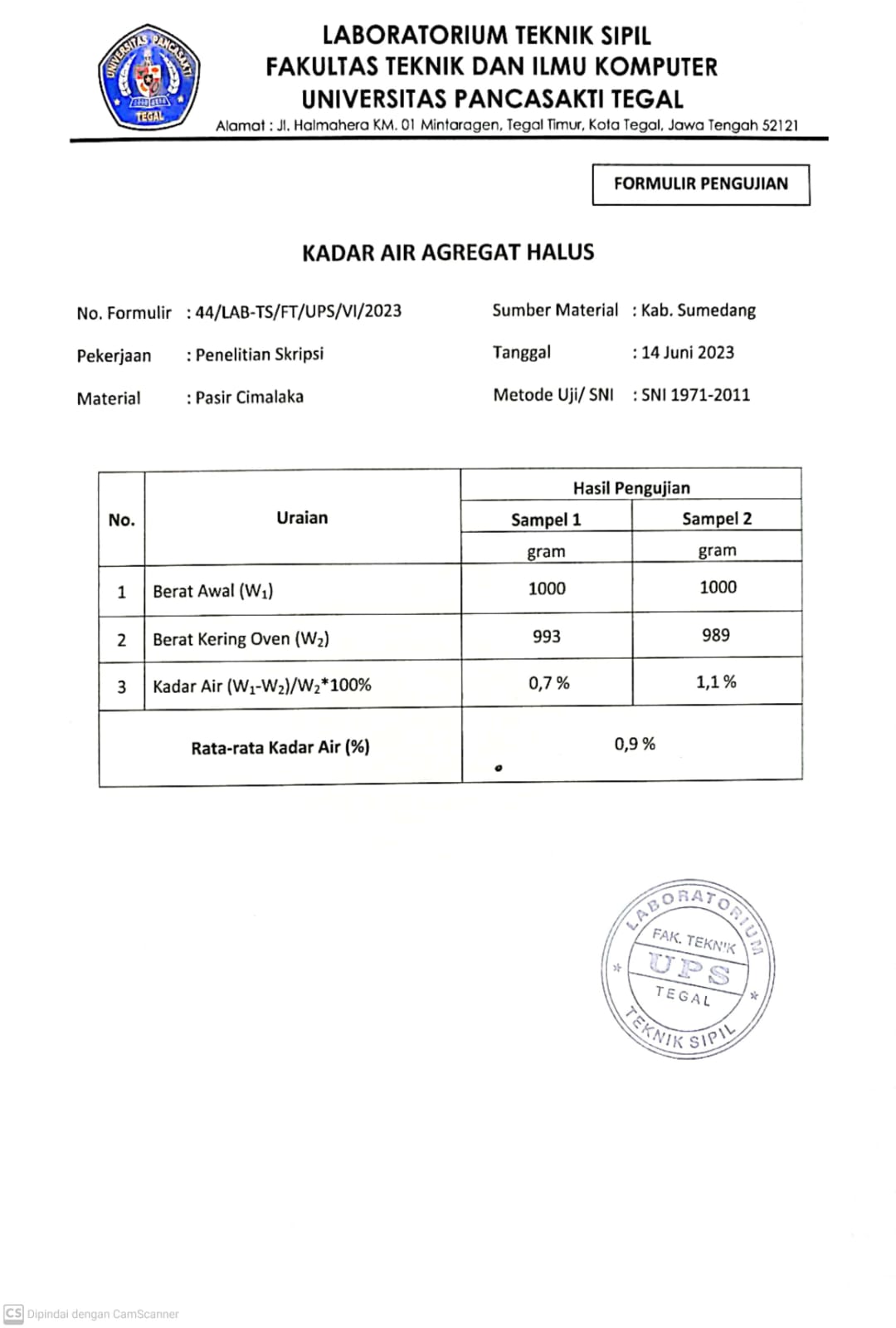
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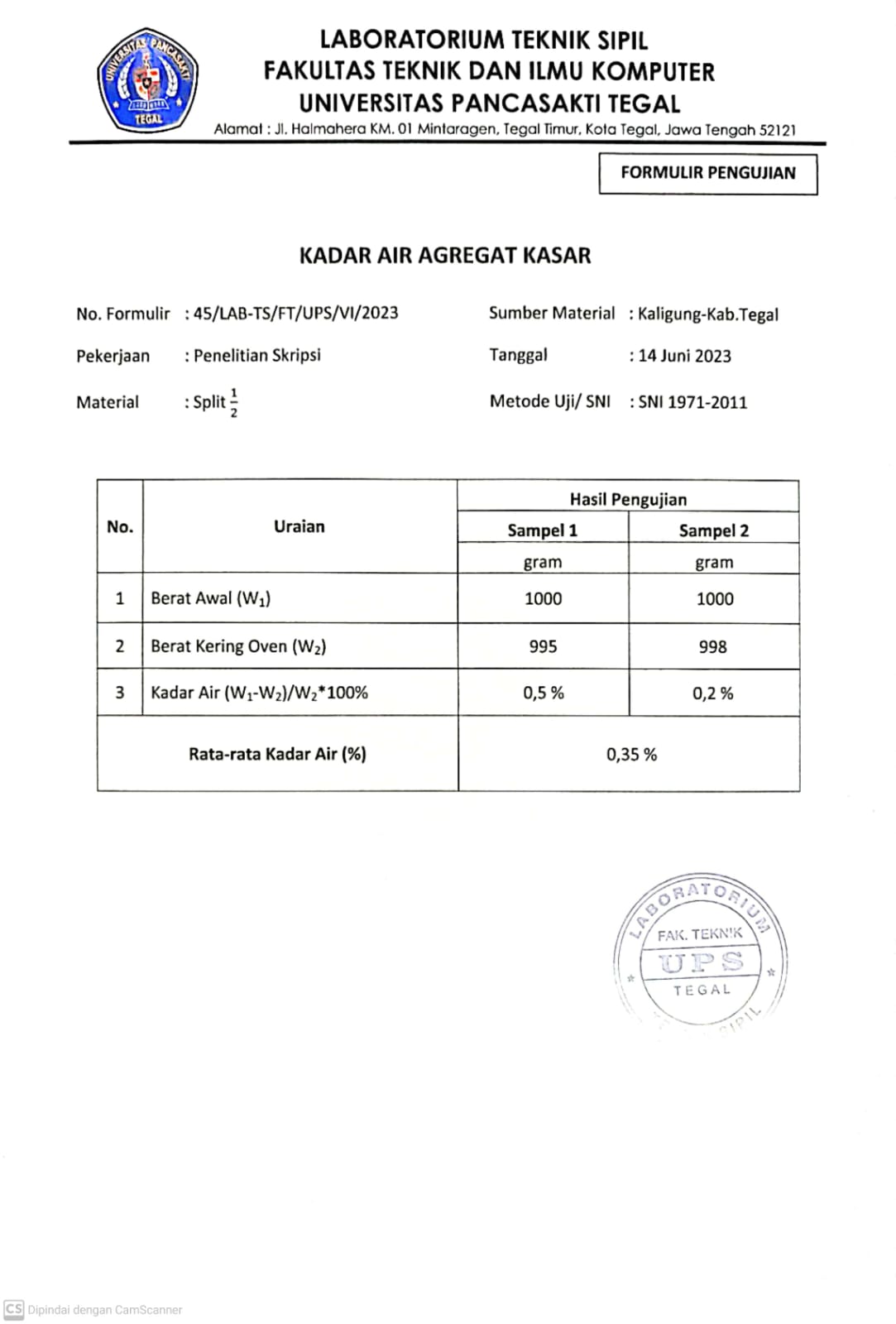
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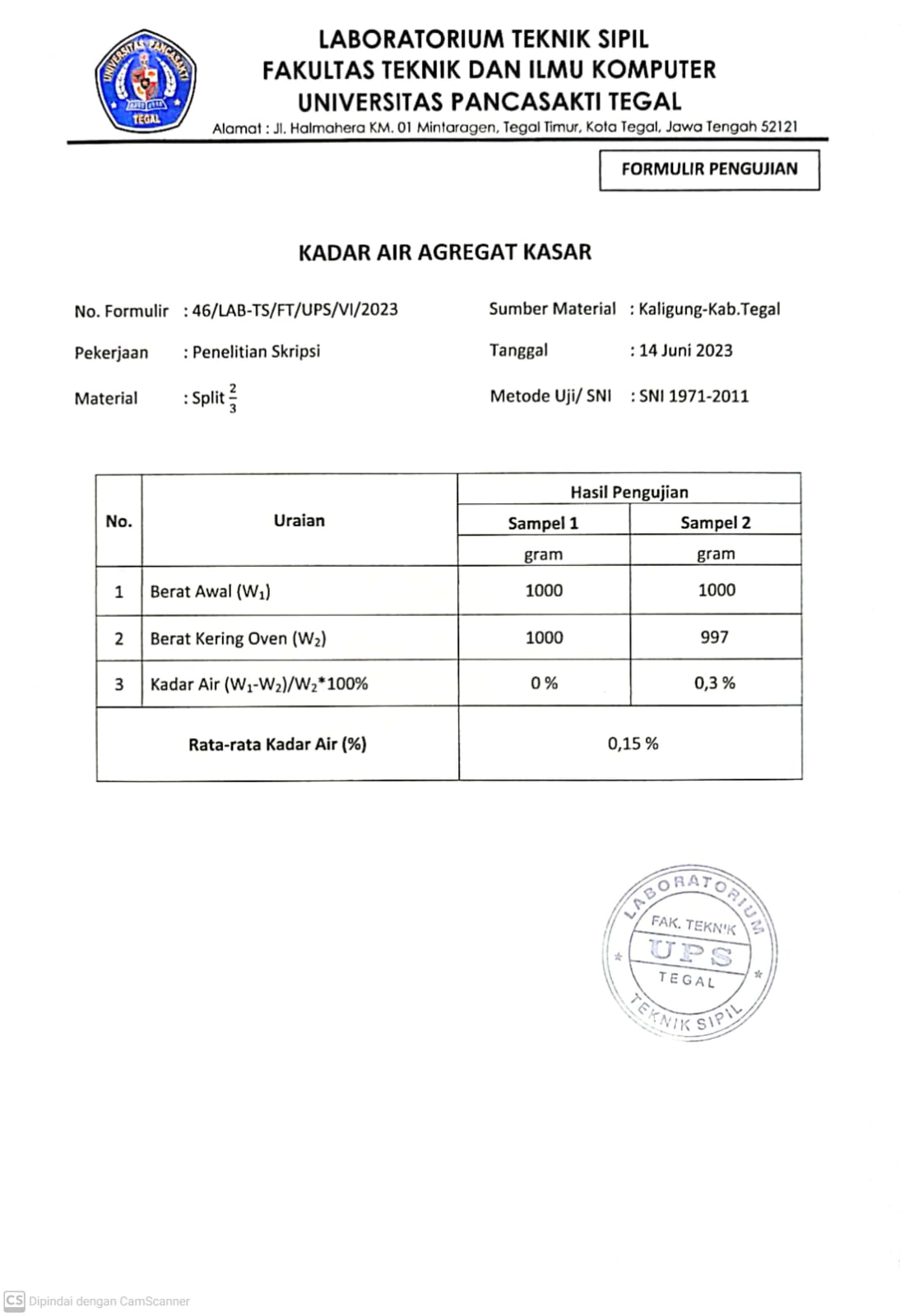
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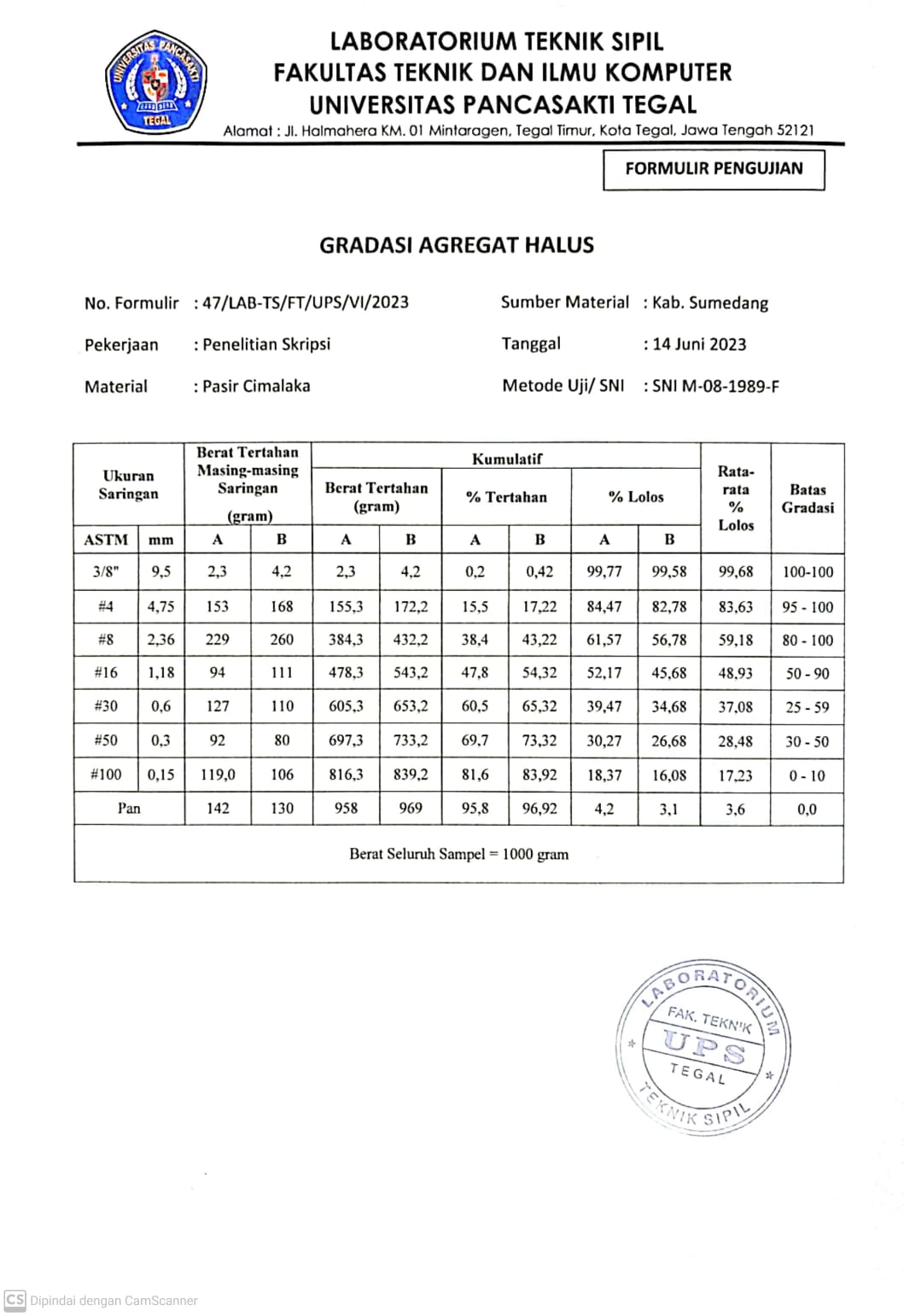
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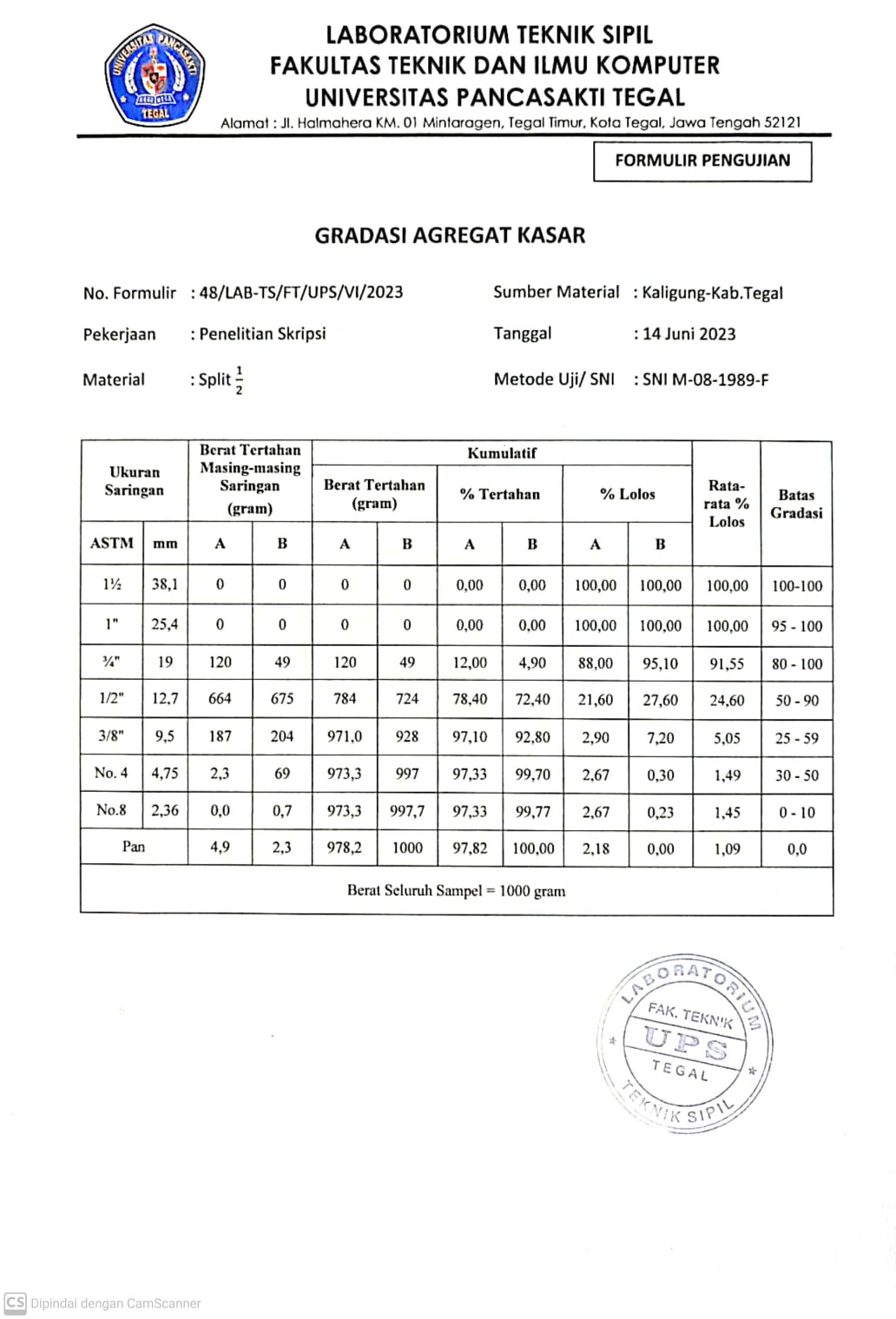
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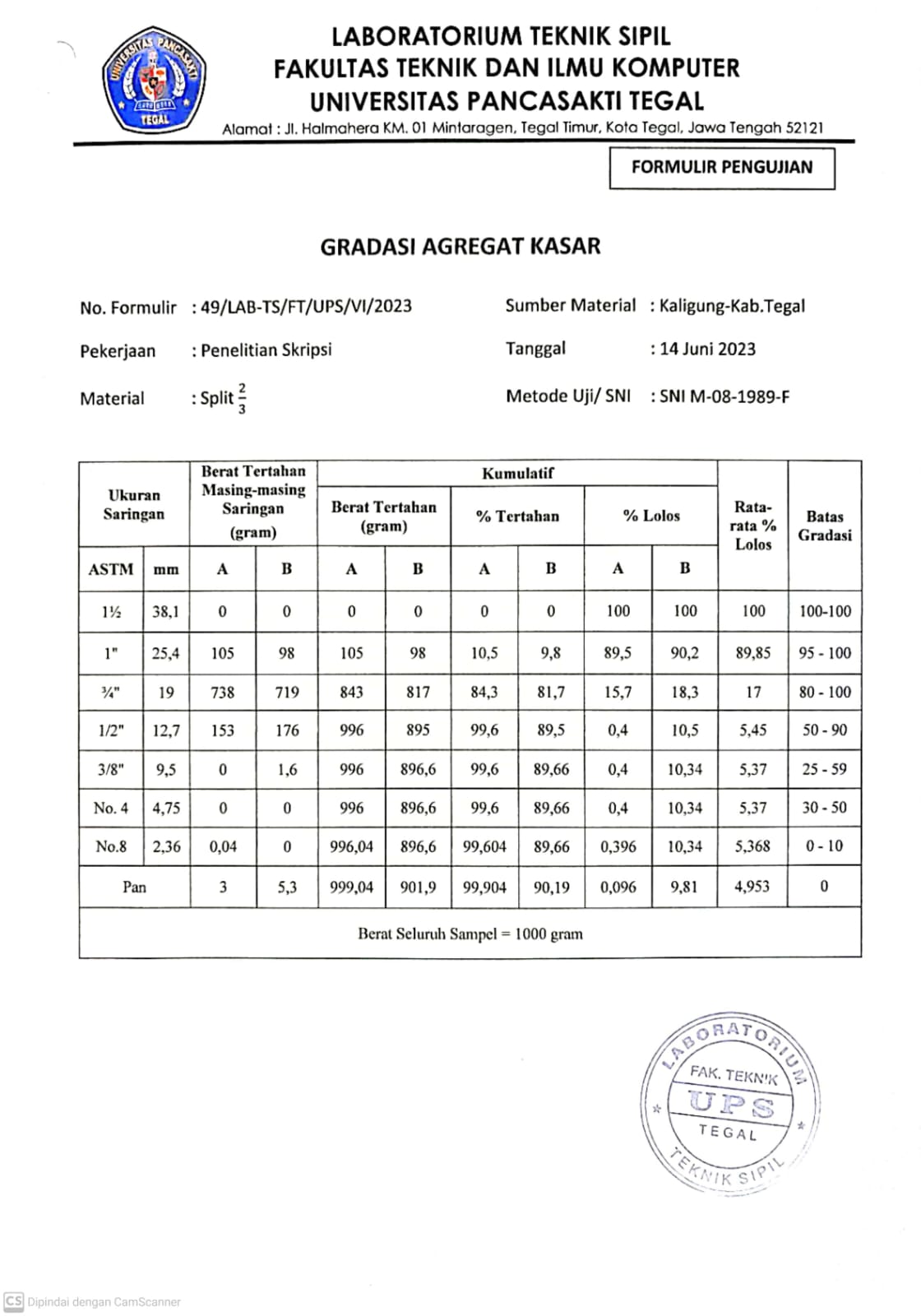
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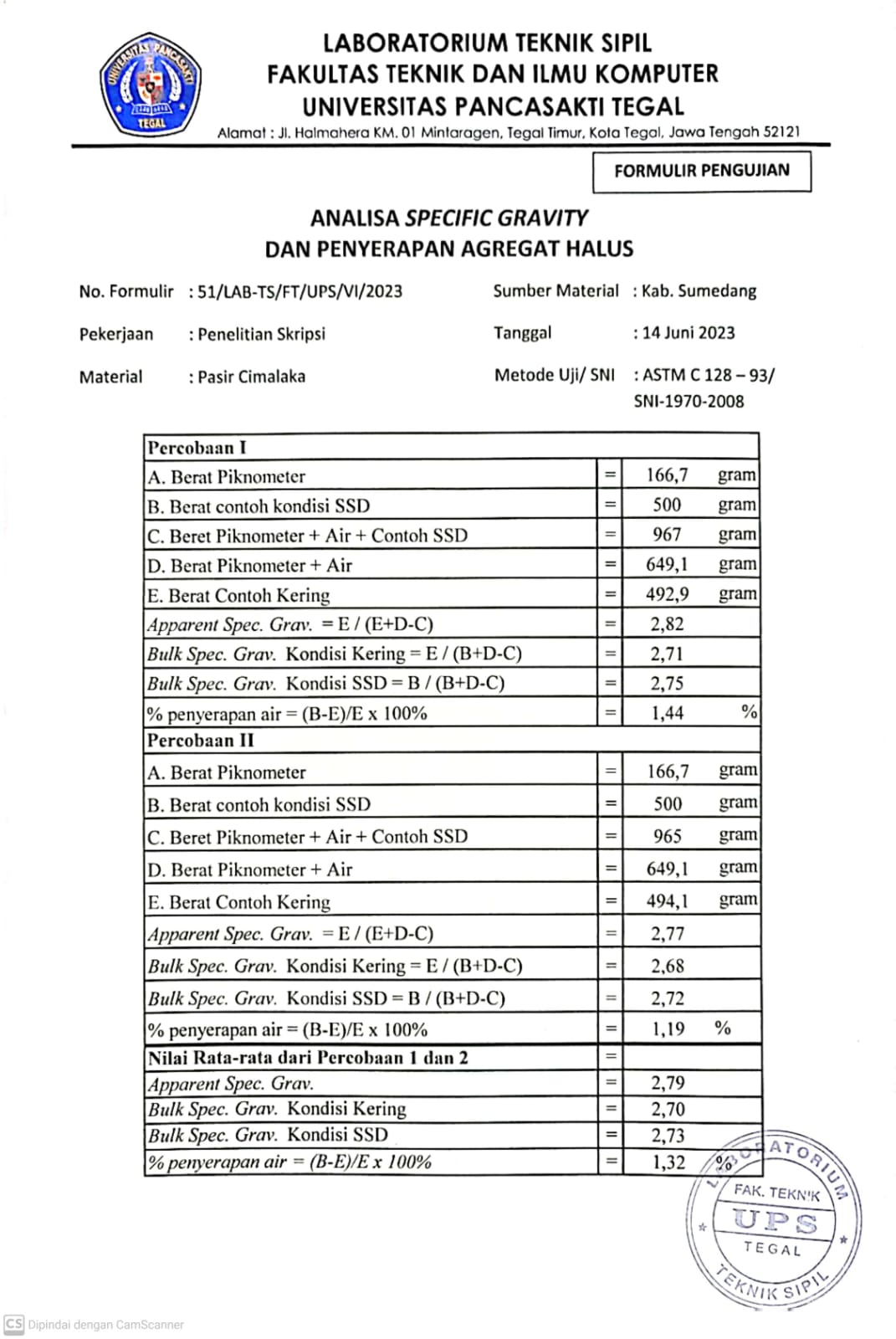
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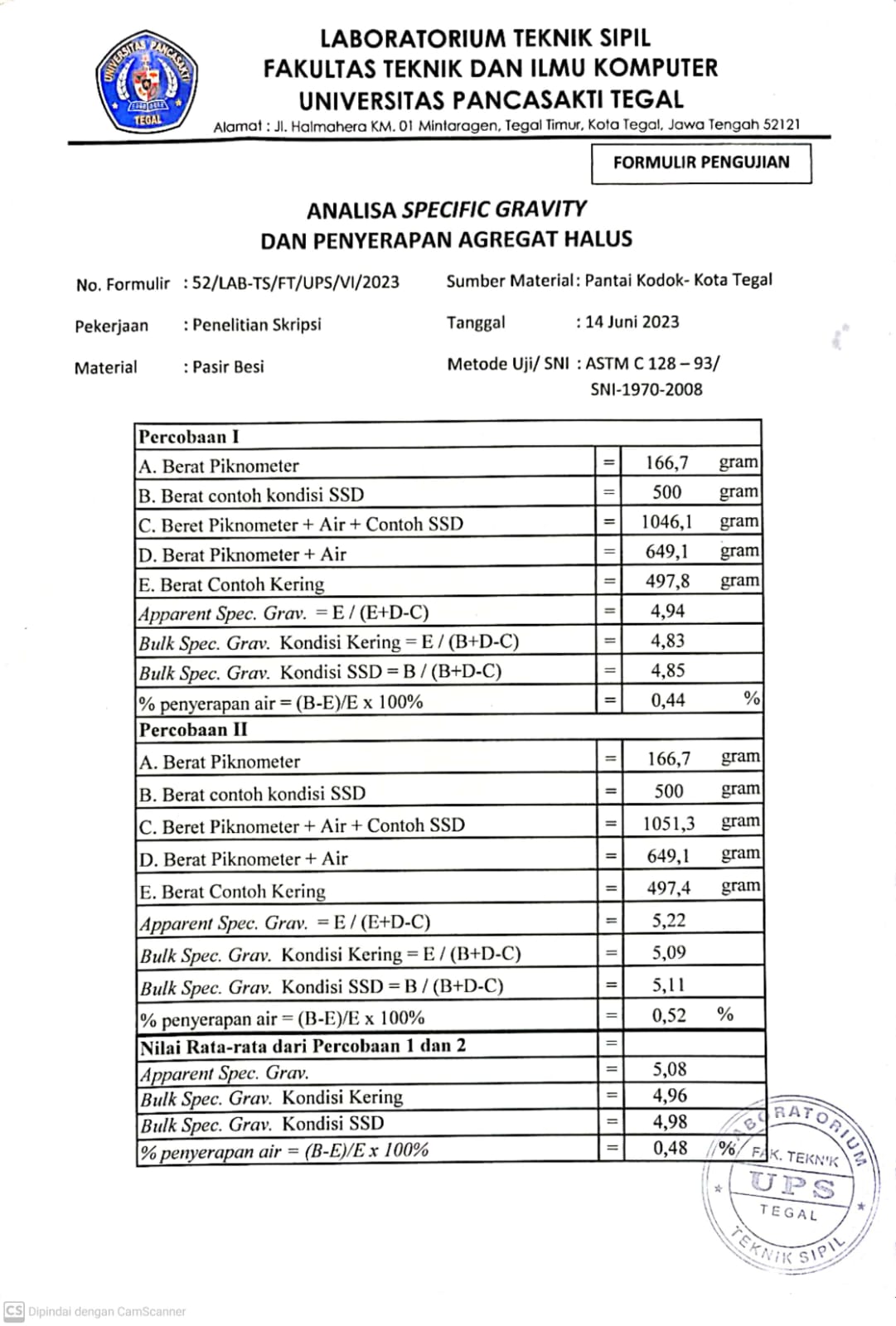
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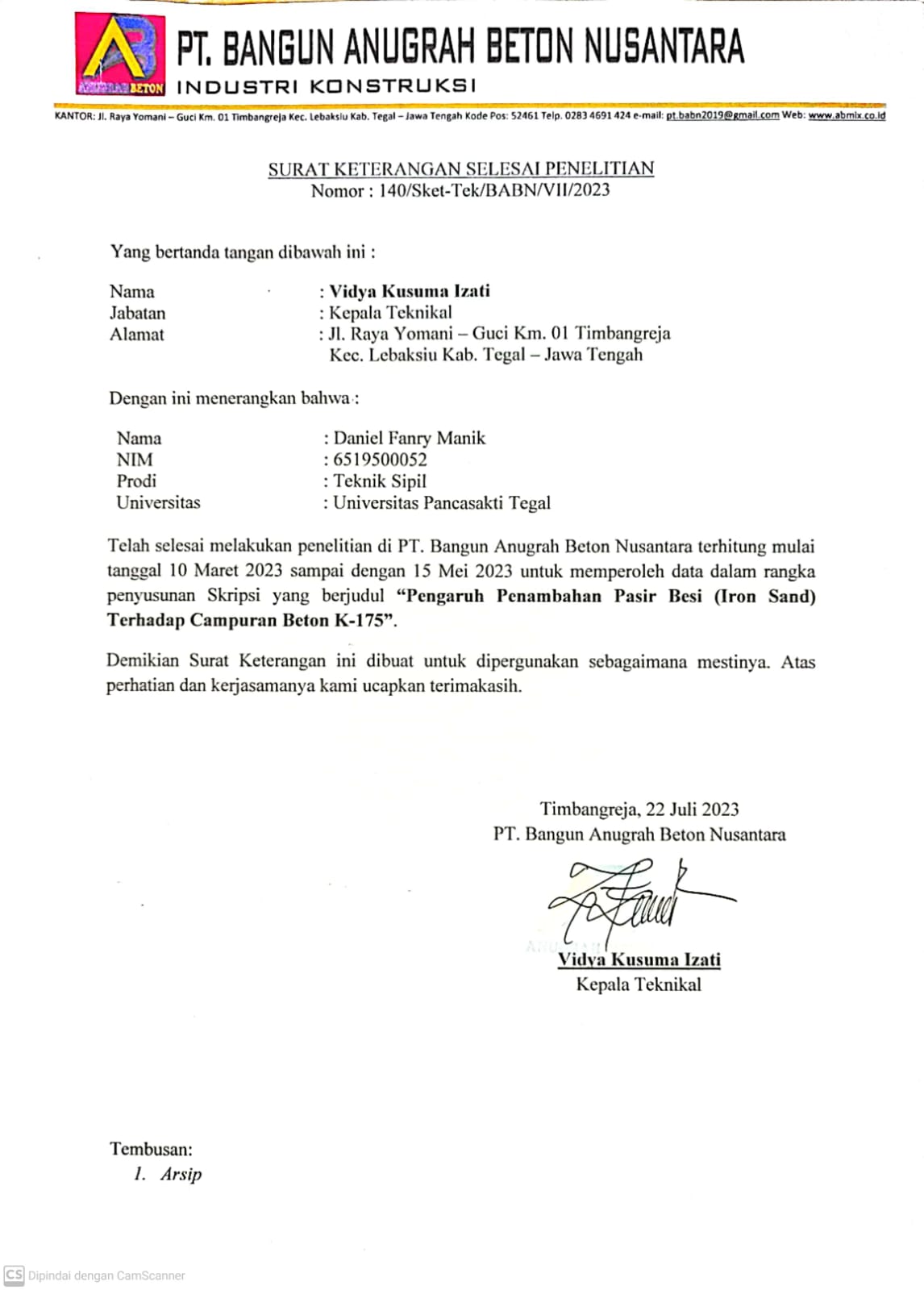
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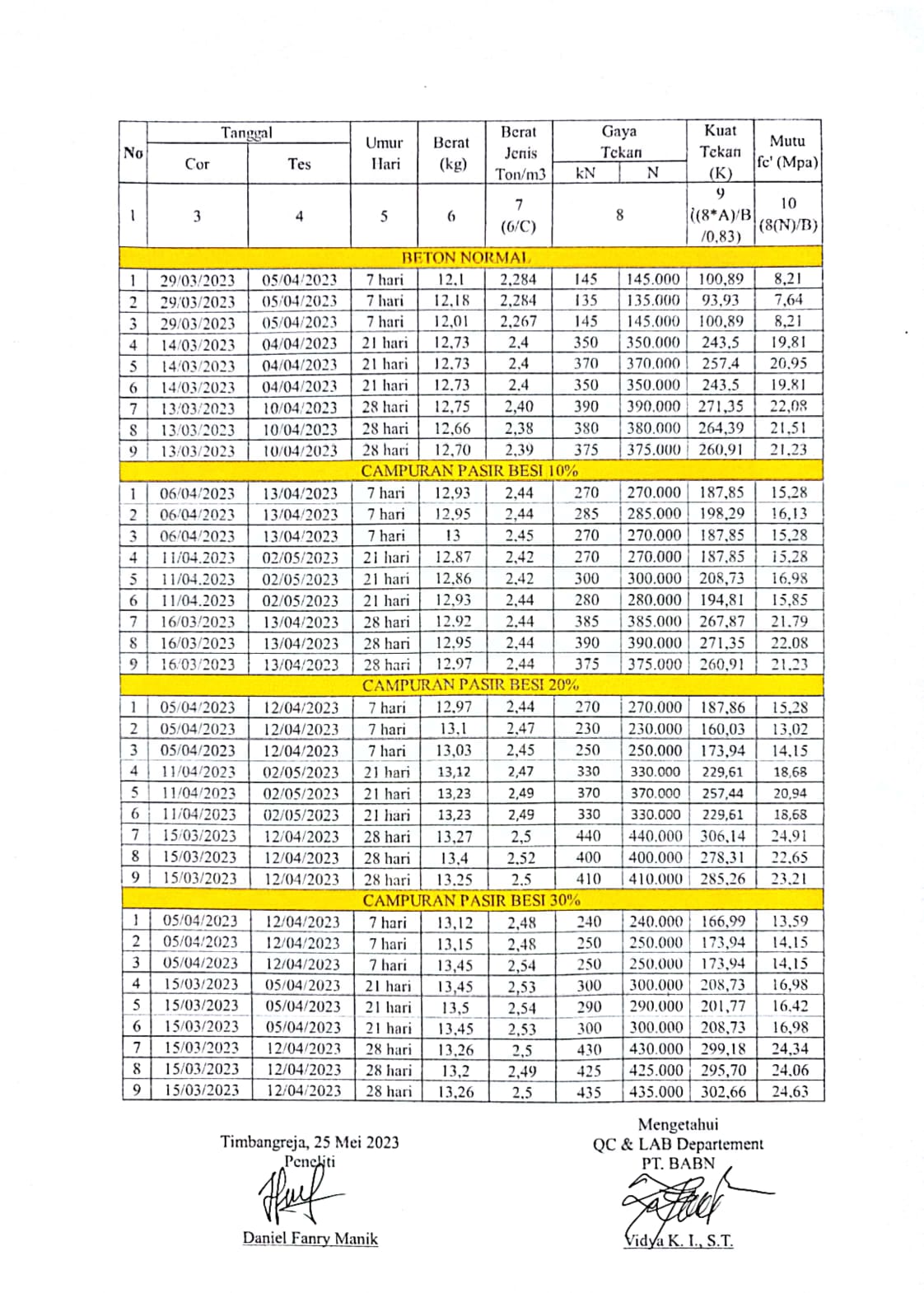
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