



# ARINDHIA ISLAMI PUTRI

## Chemical Analyst

Bogor, Indonesia

**Phone:** +6281387190708

**Email:** arindiaputri05@gmail.com

**LinkedIn:** Arindhia Islami Putri

## PROFILE

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A Chemical Analyst graduate from SMK-SMAK Bogor with BNSP competency certification and knowledge of ISO/IEC 17025, Occupational Health and Safety (K3), and Good Laboratory Practice (GLP). Experienced in conducting chemical, physical, and microbiological analysis in laboratory settings, including operating instruments such as HPLC, FTIR, UV-Vis Spectrophotometer, GC, AAS, ICP-OES, and X-Ray. Skilled in sample preparation, analytical data processing, and implementation of laboratory quality procedures. Supported by strong analytical thinking, problem-solving, adaptability, and effective communication skills, with a commitment to producing accurate, reliable, and standards-compliant testing data.

## WORK EXPERIENCE

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### PT INDOCEMENT TUNGGAL PRAKARSA Tbk.

November 2025 - April 2026

Chemical Analyst Intern

1. Conducted physical and chemical testing of cement samples, including clinker, raw materials, and Alternative Fuel and Raw Materials (AFR), using conventional analytical methods such as titration and gravimetric analysis, as well as instrumental analysis using ICP-OES and X-Ray Diffraction (XRD) to evaluate sample characteristics and quality.
2. Performed sample preparation, reagent preparation, titrant standardization, and measuring instrument calibration according to established laboratory procedures. Recorded, processed, and evaluated analytical data to ensure the accuracy, reliability, and traceability of testing results.
3. Applied Good Laboratory Practice (GLP), Occupational Health and Safety (K3), and ISO/IEC 17025 principles throughout laboratory activities. Participated in ISO/IEC 17025 audit preparation, including quality document management, method verification, record control, and follow-up of audit findings to support continuous improvement of the laboratory quality management system.

## SKILLS

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### Hard Skills :

**KKNI Level III Certified in Chemical Analysis – BNSP, issued through LSP-P1 SMK-SMAK Bogor.**

1. Instrumental Analysis: Proficient in operating UV-Vis Spectrophotometer, Atomic Absorption Spectroscopy (AAS), High-Performance Liquid Chromatography (HPLC), and Gas Chromatography (GC).
2. Conventional & Electrochemical Analysis: Skilled in conventional analytical methods, including titration, gravimetric analysis, proximate analysis, and organoleptic testing, as well as operating pH meter, refractometer, and viscometer (Ostwald & Stokes).
3. Microbiological Analysis: Experienced in microbiological analysis, including sterilization and aseptic techniques, media preparation, serial dilution, bacterial isolation and inoculation, and microscopic bacterial identification.

**Soft Skills** : Teamwork, Effective Communication, Critical Thinking, Time Management, and Adaptability.

**Languages** : Indonesian (Fluent) | English (Intermediate – B1, TOEIC Score: 660)

**Other Skills** : Google Workspace (Docs, Sheet, Forms), Microsoft Office (Word, Excel, PowerPoint), Canva

## EDUCATIONAL

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**SMK-SMAK Bogor (SMAKBO) - Chemical Analyst**

**2022 - 2026**

Average Score : 85,91/100,00

## PROJECT

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### Final Internship Project - PT Indocement Tunggal Prakarsa Tbk.

March - April 2026

Trace Element Analysis of Humus Soil Waste Using ICP-OES as an Alternative Raw Material

1. Trace Element Analysis of Humus Soil Waste Using ICP-OES as an Alternative Raw Material Conducted analysis of trace element concentrations in humus soil waste using Inductively Coupled Plasma–Optical Emission Spectrometry (ICP-OES) to evaluate its potential utilization as an Alternative Raw Material (ARM) in the cement industry. Performed sample preparation and acid digestion prior to ICP-OES analysis, followed by calibration and instrumental measurement to obtain accurate and reliable analytical data.
2. Analyzed and evaluated the concentrations of trace elements, including Cr, Ni, Zn, S, Co, Fe, and Mg, and compared the results with NIST SRM 2706 reference values.
3. Evaluated the suitability and safety of humus soil waste based on its trace element content and relevant quality requirements for alternative raw materials.
4. Processed and interpreted analytical data to assess the potential application of humus soil waste as a partial alternative raw material in cement production.
5. Documented the analytical procedures and results and formulated conclusions based on the obtained data and applicable standards.

### Project Work PKT 2

July - October 2025

*Synthesis of Sodium Carboxymethyl Cellulose (Na-CMC) from Banana Pseudostem (Musa paradisiaca)*

1. Isolated cellulose from banana pseudostem and synthesized Sodium Carboxymethyl Cellulose (Na-CMC) through a series of chemical processes.
2. Characterized the synthesized product through pH, moisture content, FTIR (Fourier Transform Infrared Spectroscopy), and SEM (Scanning Electron Microscopy) analyses, followed by data processing and evaluation.
3. Developed the product concept, prepared technical proposals and reports, and designed supporting materials including product packaging, posters, and product development videos.

## ORGANIZATION

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### Member – Traditional Dance Team (TITRASI)

2024 - July 2025

Actively participated in arts and performance activities while developing teamwork, discipline, and communication skills.

### Question Development Team – SMAKBO Open Championship (Eksakta)

Nov 2023 - February 2024

Developed and revised mathematics questions, prepared answer keys and explanations, and managed the question bank. Utilized Microsoft Word, Excel, and Canva to support content development, formatting, and material design.

## CERTIFICATE

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### KKNI Level III Certification in Chemical Analysis – National Professional Certification Agency (BNSP)

#### Issued through LSP-P1 SMK-SMAK Bogor

1. Certified in accordance with the Indonesian National Qualifications Framework (KKNI) Level III in the field of Chemical Analysis.
2. Demonstrated competencies in Gravimetric Analysis, Volumetric Analysis, AFNI-EK (Electrochemical Instrumental Analysis), Microbiological Analysis, UV-Vis Spectrophotometry, Atomic Absorption Spectroscopy (AAS), Proximate Analysis, Gas Chromatography (GC), and Sub-sampling techniques.
3. Competent in performing laboratory testing, sample preparation, data analysis, and the implementation of quality and safety standards in accordance with laboratory procedures.



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**IJAZAH**

**SEKOLAH MENENGAH KEJURUAN  
TAHUN AJARAN 2025/2026**

Program Keahlian: Kimia Analisis

Konsentrasi Keahlian : Kimia Analisis

Dengan ini menyatakan bahwa:

**Arindhia Islami Putri**

tempat, tanggal lahir: Bogor, 5 Maret 2007

Nomor Induk Siswa Nasional: 0075162063

**L U L U S**

dari,

satuan pendidikan: SMK-SMAK BOGOR

Nomor Pokok Sekolah Nasional: 20238524

Berdasarkan Keputusan Kepala SMK-SMAK BOGOR Nomor 77 Tahun 2026 Tanggal 18 Mei 2026 setelah memenuhi seluruh kriteria sesuai dengan peraturan perundang-undangan.

Kota Bogor, 25 Mei 2026

Kepala,



Rusman, M.Si

NIP. 197811132005021001



## TRANSKRIP NILAI

Nomor :3514 /BPSDMI/SMAKBO/PP/V/2026

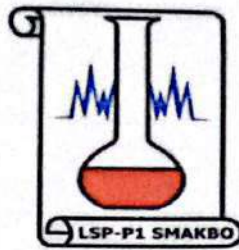
Satuan Pendidikan : SMK-SMAK Bogor  
Nomor Pokok Sekolah Nasional : 20238524  
Nama Lengkap : Arindhia Islami Putri  
Tempat, Tanggal Lahir : Bogor, 5 Maret 2007  
Nomor Induk Siswa Nasional : 0075162063  
Nomor Ijazah : 141202604802541  
Tanggal Kelulusan : 18 Mei 2026  
Program Keahlian : Kimia Analisis  
Konsentrasi Keahlian : Kimia Analisis

| No.                                        | Mata Pelajaran                             | Nilai        |
|--------------------------------------------|--------------------------------------------|--------------|
| <b>A. Kelompok Mata Pelajaran Umum</b>     |                                            |              |
| 1                                          | Pendidikan Agama dan Budi Pekerti          | 83,30        |
| 2                                          | Pendidikan Pancasila                       | 86,87        |
| 3                                          | Bahasa Indonesia                           | 85,95        |
| 4                                          | Pendidikan Jasmani, Olahraga dan Kesehatan | 90,25        |
| 5                                          | Sejarah                                    | 86,50        |
| 6                                          | Seni Budaya                                | 91,50        |
| <b>B. Kelompok Mata Pelajaran Kejuruan</b> |                                            |              |
| 7                                          | Matematika                                 | 83,03        |
| 8                                          | Bahasa Inggris                             | 84,32        |
| 9                                          | Informatika                                | 84,25        |
| 10                                         | Projek Ilmu Pengetahuan Alam dan Sosial    | 78,59        |
| 11                                         | Dasar-Dasar Program Keahlian               | 82,08        |
| 12                                         | Konsentrasi Keahlian                       | 88,00        |
| 13                                         | Projek Kreatif dan Kewirausahaan           | 92,00        |
| 14                                         | Praktik Kerja Lapangan                     | 87,96        |
| <b>C. Muatan Lokal</b>                     |                                            |              |
| 15                                         | Analisis Parameter Lingkungan              | 84,00        |
| <b>Rata-rata</b>                           |                                            | <b>85,91</b> |

Kota Bogor, 25 Mei 2026



Rusman, M.Si  
NIP. 197811132005021001



**LEMBAGA SERTIFIKASI PROFESI - P1  
SMAKBO**

*PROFESSIONAL CERTIFICATION BODY - P1  
SMAKBO*

**SKILL PASSPORT**

**No. 74900 2113 0 0000804 2026**

Dengan ini menyatakan bahwa,  
*This is to certify that,*

**ARINDHIA ISLAMI PUTRI**

**No. Reg. LAB 091 000039 2026**

Telah kompeten pada bidang :  
*Has become competent in the field of :*

**SKEMA SERTIFIKASI KLASSTER**  
*Cluster Certification Scheme*

*01-Klaster Analisis Titrimetri dan Gravimetri / Titrimetric and Gravimetric Analysis Cluster*

*02-Klaster Analisis Proksimat / Proximate Analysis Cluster*

*03-Klaster Analisis Menggunakan Instrumen / Instruments Analysis Cluster*

*04-Klaster Analisis Mikrobiologi / Microbiological Analysis Cluster*

*05-Klaster Analisis Spektrofotometri Serapan Atom (AAS) / AAS Analysis Cluster*

*06-Klaster Analisis Kromatografi Gas (GC) / GC Analysis Cluster*

**Skill Passport ini berlaku untuk : 3 (tiga) tahun**

*This Skill Passport is valid for : 3 (three) years*

Bogor, 02 Juni 2026

Atas Nama Badan Nasional Sertifikasi Profesi  
*On Behalf of Indonesian Professional Certification Authority*  
Lembaga Sertifikasi Profesi - P1 SMAKBO  
*Professional Certification Body - P1 SMAKBO*

**Dr. Gina Lubia Nadjamoeddin, S.Si., M.T.**  
(Ketua/Chairperson)



## Daftar Unit Kompetensi

List of Unit(s) of Competency



| No. | Kode Unit Kompetensi | Judul Unit Kompetensi                                                                   |
|-----|----------------------|-----------------------------------------------------------------------------------------|
| 1.  | M.749000.008.01      | Menggunakan Peralatan K3 Sesuai Prosedur                                                |
| 2.  | M.749000.010.01      | Melaksanakan Pekerjaan di Laboratorium Berdasarkan Keselamatan dan Kesehatan Kerja (K3) |
| 3.  | MSL 913001 A         | Berkomunikasi dengan Orang Lain                                                         |
| 4.  | M.749000.001.01      | Membersihkan Laboratorium Uji                                                           |
| 5.  | M.749000.002.01      | Mengoperasikan Utilitas Laboratorium Uji                                                |
| 6.  | M.749000.007.01      | Memastikan Kualitas Air Suling dan Pereaksi                                             |
| 7.  | M.749000.003.01      | Merawat Peralatan Gelas                                                                 |
| 8.  | M.749000.004.01      | Merawat Peralatan Non-gelas Mengikuti Prosedur                                          |
| 9.  | M.749000.005.01      | Merawat Lingkungan Kerja Instrumen Analitik                                             |
| 10. | M.749000.063.01      | Menentukan Karakteristik Sampel (Analit dan Matriks di dalam Sampel)                    |
| 11. | M.749000.014.01      | Membuat Larutan Pereaksi Mengikuti Prosedur                                             |
| 12. | M.749000.015.01      | Membuat Larutan Standar Mengikuti Prosedur                                              |
| 13. | M.749000.016.01      | Membuat Label Pereaksi                                                                  |
| 14. | M.749000.017.01      | Menyimpan Bahan Kimia dengan Aman                                                       |
| 15. | M.749000.009.01      | Membersihkan Tumpahan Bahan Kimia                                                       |
| 16. | M.749000.018.01      | Membuang Limbah Pereaksi Mengikuti Prosedur                                             |
| 17. | MSL 922001 A         | Merekam dan Menyajikan Data                                                             |
| 18. | M.749000.027.01      | Melaksanakan Analisis Gravimetri Konvensional Mengikuti Prosedur                        |
| 19. | M.749000.026.01      | Melaksanakan Analisis Volumetri Konvensional Mengikuti Prosedur                         |
| 20. | M.749000.036.01      | Melaksanakan Analisis Proksimat (Konvensional) Mengikuti Prosedur                       |
| 21. | M.749000.028.01      | Melaksanakan Analisis Kolorimetri Mengikuti Prosedur                                    |
| 22. | M.749000.030.01      | Melaksanakan Analisis Instrumental Sederhana Mengikuti Prosedur                         |
| 23. | M.749000.031.01      | Melaksanakan Analisis Fisiko-Kimia Mengikuti Prosedur                                   |
| 24. | M.749000.032.01      | Melaksanakan Analisis Fisik Penunjang Analisis Kimia Mengikuti Prosedur                 |
| 25. | MSL975020A           | Menerapkan Teknik Spektrometri Rutin (UV-Vis)                                           |
| 26. | M.749000.050.01      | Menggunakan Perangkat Lunak Laboratorium Analitik                                       |
| 27. | M.749000.041.01      | Membuat Media Pembenihan untuk Mikrob                                                   |
| 28. | M.749000.040.01      | Melakukan Proses Sterilisasi                                                            |
| 29. | M.749000.039.01      | Melakukan Teknik Aseptik                                                                |
| 30. | M.749000.042.01      | Melakukan Inokulasi dan Subkultur Mikrob                                                |
| 31. | M.749000.043.01      | Mengolah Data Hasil Analisis Mikrobiologi Sebagai Penunjang Analisis Kimia              |
| 32. | MSL952001A           | Mengambil contoh di lokasi secara rutin                                                 |
| 33. | M.749000.021.01      | Mengambil Sampel Uji (Sub-Sampling) dari Sampel Lapangan                                |
| 34. | MSL954001A           | Mendapatkan Contoh Representatif yang Sesuai dengan Rencana Pengambilan Contoh          |
| 35. | MSL952002A           | Menangani dan mengangkut contoh atau peralatan                                          |
| 36. | M.749000.023.01      | Mengarsipkan Sampel                                                                     |
| 37. | MSL975020A           | Menerapkan Teknik Spektrometri Rutin (SSA)                                              |
| 38. | MSL975009 A          | Menerapkan Teknik Analisis Kromatografi Rutin (GC)                                      |



Arindhia Islami Putri

Tanda tangan pemilik  
Signature of Holder

Bogor, 02 Juni 2026

**Lembaga Sertifikasi Profesi P1 SMAKBO**

Professional Certification Body P1 SMAKBO

I Gusti Ayu Devi Nurhandari, S.Si.

Manajer Sertifikasi  
Certification Manager



**KEMENTERIAN PERINDUSTRIAN REPUBLIK INDONESIA**  
**BADAN PENGEMBANGAN SUMBER DAYA MANUSIA INDUSTRI**  
**SEKOLAH MENENGAH KEJURUAN - SMAK BOGOR**  
Jl. Pangeran Sogiri No.374, Tanah Baru, Bogor Utara, Kota Bogor 16154  
Telp. (0251) 2005026 Email: mail@smakbo.sch.id

Nama : Arindhia Islami Putri  
Nomor Induk Siswa : 22.68.10007  
Kompetensi Keahlian : Kimia Analisis ( 4 Tahun )  
Kelas : XIII.2  
Semester : Genap (delapan)  
Tahun Pelajaran : 2025-2026

**Praktik Kerja Lapangan**

| No. | Mitra DU/DI                               | Lamanya (bulan) | Nilai Prakerin |
|-----|-------------------------------------------|-----------------|----------------|
| 1.  | PT Indocement Tunggul Prakarsa Tbk, Bogor | 6 Bulan         | 88             |

**Keputusan :**

Berdasarkan hasil yang dicapai pada semester VII dan VIII, peserta didik ditetapkan: **LULUS**  
dari Sekolah Menengah Kejuruan – SMAK Bogor.

Mengetahui:  
Orang Tua/ Wali

Bogor, 29 Mei 2026  
Wali Kelas

  
**Muhammad Iqbal, S.Pd.**  
NIP 19930707 201901 1 001

  
**Rusman, M.Si**  
NIP 197811132005021001

# SERTIFIKAT

## PRAKTIK KERJA INDUSTRI

Nomor : 4705/BPSDMI/SMAKBO/PP/VI/2026

Kepala Sekolah Menengah Kejuruan – SMAK Bogor menerangkan bahwa

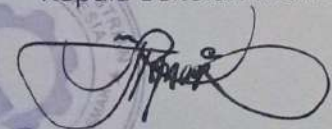
*Arindhia Islami Putri*

telah melaksanakan Praktik Kerja Industri (Prakerin) di PT Indocement Tungal Prakarsa Tbk, Bogor pada periode November 2025 sampai dengan April 2026, dengan pembimbing institusi Fikri Gojali dan pembimbing sekolah Tutik Widyanti, S.Si.

Sertifikat ini sebagai bukti kompetensi yang telah dimiliki dalam bidang Kimia Analisis.

Bogor, 2 Juni 2026

Kepala Sekolah Menengah Kejuruan – SMAK Bogor,



Rusman, M.Si.

