

PEJABAT TIMBALAN NAIB CANSOLOR (PENYELIDIKAN DAN INOVASI)
OFFICE OF THE DEPUTY VICE CHANCELLOR (RESEARCH AND INNOVATION)

Ruj. Kami: UPM.TNCPI.PSP.300-6/2/6

Tarikh: 28 Ogos 2025

YBhg. Prof. Dr. Muhammad Rezal Kamel Ariffin
Jabatan Matematik dan Statistik,
Fakulti Sains, UPM

YBhg. Prof. Dr.,

**Salinan Dokumen Persetujuan Kerahsiaan bagi Rahsia Dagangan/*Know-how*
"Double Discrete Logarithm Problem Based Post-Quantum Digital Signature
System For Preserving Integrity, Authenticity, And Disallowing Repudiation Of
Digitally Transmitted Message And Method Thereof & P12025000745"**

Dengan segala hormatnya saya merujuk kepada perkara di atas.

2. Dimajukan dokumen persetujuan kerahsiaan bagi rahsia dagangan "Double Discrete Logarithm Problem Based Post-Quantum Digital Signature System For Preserving Integrity, Authenticity, And Disallowing Repudiation Of Digitally Transmitted Message And Method Thereof & P12025000745" TS2025082801 untuk rekod YBhg. Prof. Dr.

3. Untuk sebarang pertanyaan, pihak YBhg. Prof. Dr boleh menghubungi pegawai kami di talian 03-9769 1243 (Pn Ashida).

Sekian, terima kasih.

"MALAYSIA MADANI"
"BERILMU BERBAKTI"

Saya yang menjalankan amanah,



PROF. MADYA TS. DR. SAIFUL HASLEY RAMLI
Timbalan Pengarah
Bahagian Promosi dan Pengurusan Harta Intelekt
Putra Science Park

TRADE SECRET/KNOW-HOW DOCUMENT

*This document is intended as a record and proof of existence of trade secret/know-how by UPM researchers. All details herein are kept as confidential and shall not be disclosed to person not listed in part C below except with permission in writing by all/surviving researchers or in pursuant to agreed contractual obligation between UPM and another party. **All parts below must be duly completed.***

Please also fill in the "UNDERTAKING AS REGARD TO CONFIDENTIALITY AND SECRECY OF INFORMATION"

A) In view of Trade Secret/Know How protection **DOUBLE DISCRETE LOGARITHM PROBLEM BASED POST-QUANTUM DIGITAL SIGNATURE SYSTEM FOR PRESERVING INTEGRITY, AUTHENTICITY, AND DISALLOWING REPUDIATION OF DIGITALLY TRANSMITTED MESSAGE AND METHOD THEREOF & P12025000745**

I solemnly declare the following information (Please state clearly the trade secret/know-how. For lengthy information, please provide as Attachment):

Please refer attachment (TSKN KAZ_SIGN_2.0 P12025000745)

B) Type of trade secret/know-how (delete the unnecessary): formulae

C) List of person(s) who know / been disclosed with the trade secret/know-how ((Please use separate sheet if more than three (3) names. Please note that a trade secret will lose its protection if become public knowledge or a matter of common knowledge):

1. Name:.....

Address:

2. Name:.....

Address:

3. Name:

Address:

I solemnly and sincerely declare that the trade secret/know-how has not been disclosed to person(s) other than those listed above in any form.

SIGNED BY:

.....

Name: PROF. DR. MUHAMMAD REZAL KAMEL ARIFFIN

Address: UNIVERSITI PUTRA MALAYSIA

Date: 25.08.2025

WITNESSED BY:

.....

Deputy Director

Putra Science Park

Date: 25/8/25

PROF. MADYA TS. DR. SAIFUL HASLEY BIN RAMLI
Bahagian Promosi dan Pengurusan Harta Intelektual
Putra Science Park,
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Universiti Putra Malaysia

Updated: 4 October 2021

UNDERTAKING AS REGARD TO CONFIDENTIALITY AND SECRECY OF INFORMATION

I PROF. DR. MUHAMMAD REZAL KAMEL ARIFFIN, hereby undertake that I shall at all times adhere to and maintain the confidentiality and secrecy of the declared information for **DOUBLE DISCRETE LOGARITHM PROBLEM BASED POST-QUANTUM DIGITAL SIGNATURE SYSTEM FOR PRESERVING INTEGRITY, AUTHENTICITY, AND DISALLOWING REPUDIATION OF DIGITALLY TRANSMITTED MESSAGE AND METHOD THEREOF & P12025000745** extract and shall not disclose such information which I have the direct or indirect access of the Trade Secret/Know-how, except in meeting an obligation required under a signed agreement between UPM and the receiving party.

SIGNED BY,



Name: PROF. DR. MUHAMMAD REZAL KAMEL ARIFFIN

Address: UNIVERSITI PUTRA MALAYSIA

HP no.: 012-3766494

Date: 25.08.2025

WITNESSED BY,



Deputy Director
Putra Science Park

Name: PROF. MADYA. TS. DR. SAIFUL HASLEY BIN RAMLI
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Address: Pejabat Timbalan Naib Canselor (Penyelidikan & Inovasi)
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Date: 25/8/25