



Republic of the Philippines  
Province of Cavite  
CITY OF BACOOR

Office of the Sangguniang Panlungsod



DISTRICT I

HON. CATHERINE SARINO-EVARISTO

Acting City Vice Mayor

HON. MIGUEL N. BAUTISTA

City Councilor

HON. ADRIELITO G. GAWARAN

City Councilor

HON. MANOLO S. GALVEZ JR.

City Councilor

HON. RICARDO F. UGALDE

City Councilor

HON. LEVY M. TELA

City Councilor

DISTRICT II

HON. ROBERTO I. ADVINCULA

City Councilor

HON. REYNALDO D. PALABRICA

City Councilor

HON. ROGELIO M. NOLASCO

City Councilor

HON. REYNALDO M. FABIAN

City Councilor

HON. SIMPLICIO G. DOMINGUEZ

City Councilor

HON. HORACIO M. BRILLANTES JR.

City Councilor

HON. RANDY C. FRANCISCO

City Councilor-ABC President

HON. PALM ANGEL S. BUNCIO

City Councilor- SK Federation President

Attested by:

ATTY. KHALID A. ATEGA, JR.

Sangguniang Panlungsod Secretary

Certified by:

HON. CATHERINE SARINO-EVARISTO

Acting City Vice Mayor

Noted:

HON. ROWENA BAUTISTA-MENDIOLA

Acting City Mayor

CITY RESOLUTION NO. 2026-1019  
Series of 2026

A RESOLUTION AUTHORIZING THE CITY MAYOR, HON. STRIKE B. REVILLA, TO SIGN A MEMORANDUM OF AGREEMENT BETWEEN THE UNIVERSITY OF PERPETUAL HELP SYSTEM DALTA-MOLINO CAMPUS AND THE CITY GOVERNMENT OF BACOOR REGARDING THE RESEARCH PROJECT ENTITLED: "TRAFFIC SIMULATOR: ANALYSIS AND RECOMMENDATION OF EFFECTS IN TRAFFIC MANAGEMENT STRATEGIES".

Sponsored by:

Hon. Rogelio M. Nolasco

Co-sponsored by:

Hon. Reynaldo M. Fabian, Hon. Manolo S. Galvez, Jr., Hon. Adrielito G. Gawaran, Hon. Reynaldo D. Palabrica, and Hon. Levy M. Tela.

WHEREAS, on 30 April 2026, the Office of the City Mayor formally requested the Sangguniang Panlungsod to pass a resolution authorizing City Mayor Strike B. Revilla to sign a Memorandum of Agreement (MOA) between the City Government of Bacoor and the University of Perpetual Help System Delta-Molino Campus regarding the Research Project entitled: "Traffic Simulator: Analysis and Recommendation of Effects in Traffic Management Strategies".

WHEREAS, the team from the University of Perpetual Help System Delta-Molino Campus has completed the research study and fully developed an intelligent traffic simulation system designed to analyze various traffic management strategies, evaluate their effects, and generate data-driven recommendations. This project aims to support the City Government of Bacoor in improving traffic flow, enhancing mobility efficiency and strengthening road management initiatives through simulation-based analyses.

WHEREAS, the proposed draft MOA was sent by the Office of the City Mayor to the Sangguniang Panlungsod for review and consideration. The proposed MOA is incorporated hereto and will be made a part of this Resolution as Annex "A".





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Attested by:

**ATTY. KHALID A. ATEGA, JR.**

Sangguniang Panlungsod Secretary

Certified by:

**HON. CATHERINE SARINO-EVARISTO**

Acting City Vice Mayor

Noted:

**HON. ROWENA BAUTISTA-MENDIOLA**

Acting City Mayor



**NOW THEREFORE**, upon motion of Councilor Rogelio M. Nolasco unanimously seconded by the City Council in regular session duly assembled, **BE IT RESOLVED AS IT IS HEREBY RESOLVED** by the Sangguniang Panlungsod to authorize the City Mayor, Hon. Strike B. Revilla, to sign and a Memorandum of Agreement with the University of Perpetual Help System DALTA-Molino Campus for and on behalf of the City Government of Bacoor.

**RESOLVED FURTHER**, to furnish the Office of the City Mayor, the University of Perpetual Help System DALTA-Molino Campus and all government offices concerned with copies of this resolution.

**APPROVED UNANIMOUSLY** this 18<sup>th</sup> day of May 2026 by the 6<sup>th</sup> Sangguniang Panlungsod of Bacoor in regular session assembled.

*I hereby certify that the foregoing Resolution is true and correct.*

Certified:

**HON. CATHERINE SARINO-EVARISTO**  
Acting City Vice Mayor

Attested:

**ATTY. KHALID A. ATEGA JR.**  
Sangguniang Panlungsod Secretary

Noted:

**HON. ROWENA BAUTISTA-MENDIOLA**  
Acting City Mayor





## MEMORANDUM OF AGREEMENT



KNOW ALL MEN BY THESE PRESENTS:

This **Memorandum of Agreement (the "Agreement")** is made and entered into this \_\_\_ day of \_\_\_\_\_, 20\_\_\_, by and between:

**UNIVERSITY OF PERPETUAL HELP SYSTEM DALTA – MOLINO CAMPUS**, with principal address at Salawag-Zapote Road, Molino 3, Bacoor City, Cavite, Philippines, represented herein by its School Director, **DR. RENO R. RAYEL**, hereinafter referred to as the "UPHSD";

**BACOOR TRAFFIC MANAGEMENT DEPARTMENT**, a local government department under the City Government of Bacoor responsible for implementing traffic policies, ensuring road safety, and managing traffic flow within the city, with office address at Bacoor Government Center, Barangay Bayanan, Bacoor City, Cavite, Philippines, represented herein by its BTMD Officer / Officer-in-Charge, **MS. LESLIE DIANNE V. MORALES**, hereinafter referred to as the "BTMD";

And

**CITY GOVERNMENT OF BACOOR**, a local government unit created and existing under the laws of the Republic of the Philippines, with office address at Bacoor Boulevard, Bacoor Government Center, Barangay Bayanan, Bacoor City, Cavite, Philippines, represented herein by its City Mayor, **HON. STRIKE B. REVILLA**, pursuant to the authority conferred by the Sangguniang Panlungsod through City Resolution No. \_\_\_\_\_, hereinafter referred to as the "LGU."

**UPHSD** and **BTMD** shall hereinafter be referred to individually as a "Partner" and collectively as the "Partners".

**WITNESSETH, that:**

**WHEREAS**, the Bacoor Traffic Management Department is mandated to implement traffic policies, ensure road safety, manage traffic flow, and support mobility initiatives within Bacoor City;

**WHEREAS**, the BTMD recognizes the need for an intelligent and data-driven system that can assist in analyzing traffic conditions, evaluating management strategies, and recommending improved traffic solutions within the city;

**WHEREAS**, the University of Perpetual Help System DALTA – Molino Campus, through its College of Computer Studies, promotes innovation, research, and community service by developing technological solutions that contribute to local government operations and public welfare;

**WHEREAS**, UPHSD is willing to assign and deploy its students namely, Kim Christian C. Gaqui, Lloyd Alvin R. Degaños, Marienella Reggietta M. Odvina, and Allen James G. De Vera, to develop an intelligent traffic simulation and analysis system entitled "Traffic Simulator: Analysis and Recommendation of Effect in Traffic Management Strategies";

**WHEREAS**, the assistance provided by UPHSD students to the BTMD shall serve as a partial requirement for their undergraduate thesis project;

**WHEREAS**, both Partners agree to collaborate in the development and implementation of the project in the interest of improving the city's traffic management strategies and data-driven decision-making;

**NOW, THEREFORE**, for and in consideration of the foregoing premises, mutual covenants, and stipulations herein provided, this Agreement is in force subject to the following terms and conditions:

**I. ABSTRACT AND PURPOSE OF THE AGREEMENT**

1. This Memorandum of Agreement establishes a partnership between the University of Perpetual Help System DALTA – Molino Campus and the Bacoor Traffic Management Department (BTMD) for the development of "Traffic Simulator: Analysis and Recommendation of Effect in Traffic Management Strategies."
2. The project aims to design, develop, and implement an intelligent traffic simulation system capable of analyzing traffic movement, testing management strategies, and providing data-driven recommendations to improve city traffic flow.
3. The collaboration shall cover all phases of the project—including system design, simulation modeling, prototype testing, evaluation, and recommendation generation—from May 2025 to December 2025, aligned with the students'

Capstone 1 and Capstone 2 requirements.

4. The key contact for the Capstone Group shall be Kim Christian C. Gaqui.

## **II. DEFINITION OF TERMS**

1. **Traffic Simulator System** – Refers to the intelligent simulation and analysis platform designed to model traffic scenarios, evaluate strategies, and generate recommendations for improved mobility.
2. **Traffic Management Strategies** – Refers to methods or interventions (e.g., signal timing, rerouting, lane management, road closures) used to regulate and optimize traffic flow.
3. **Capstone Group** – Refers to the group of UPHSD – College of Computer Studies students developing the system as part of their thesis requirement.
4. **System Administrator** – Refers to BTMD personnel responsible for overseeing, operating, and maintaining the Traffic Simulator System after deployment.

## **III. THESIS PROJECT DETAILS**

1. "Traffic Simulator: Analysis and Recommendation of Effect In Traffic Management Strategies" aims to support BTMD in evaluating traffic policies through simulated environments, real-time modeling, and intelligent analysis.
2. The system will allow BTMD to test various traffic scenarios, predict outcomes, and identify optimal strategies to improve traffic flow.
3. The system will analyze simulated results and provide recommendations based on performance indicators such as congestion levels, vehicle throughput, and road efficiency.
4. System features include:
  - Traffic scenario simulation and visualization
  - Data-driven strategy evaluation
  - AI-based analysis and recommendation generation
  - Administrative dashboard for BTMD use
  - Secure data management and storage protocols

## **IV. ROLES AND RESPONSIBILITIES**

### **A. UPHSD shall:**

1. Support the development and implementation of the Traffic Simulator System.
2. Allow its students to collaborate with BTMD for system development, testing, and evaluation.
3. Facilitate the formal turnover of the Traffic Simulator System to BTMD in accordance with Section V of this Agreement.
4. Ensure that students sign an Undertaking of Confidentiality to protect sensitive information and data obtained from BTMD.

## **B. BTMD shall:**

1. Provide technical guidance, traffic data, and operational insights necessary for system design and testing.
2. Assign a focal person/system administrator to coordinate with UPHSD and oversee project activities.
3. Allow limited field observation and validation activities within Bacoor's traffic zones.
4. Support, when possible, the sustainability, hosting, and maintenance of the system after its turnover.

## **C. DURATION OF AGREEMENT**

This Agreement will take effect upon signing by the parties and will remain in force until the end of UPHSD's School Year 2025 – 2026, or until June 2026, subject to extension or renewal upon written consent of both parties.

## **V. SYSTEM TURNOVER AND ACCEPTANCE**

1. The Traffic Simulator System shall be developed, presented, and evaluated by the Capstone Group in coordination with the Bacoor Traffic Management Department (BTMD) as part of the project implementation.
2. The formal turnover of the Traffic Simulator System shall take place upon completion of development, testing, and evaluation, and upon the signing of this Memorandum of Agreement (MOA) by the authorized representatives of UPHSD and BTMD, which shall serve as the official document evidencing the turnover and acceptance of the system.
3. BTMD shall evaluate the system to determine whether it meets the stated requirements and operational standards prior to signing this MOA.
4. By signing this MOA, BTMD confirms that the system has been received in satisfactory condition and is accepted for operational use.
5. Upon formal turnover, BTMD shall assume full responsibility for the operation, maintenance, data management, and security of the system.
6. Any issues identified after turnover shall be addressed subject to mutual agreement between the Parties and within the academic limitations of the Capstone Group.

## **VI. SYSTEM MAINTENANCE AND UPKEEP**

1. During development, the Capstone Group shall ensure the functionality and stability of the Traffic Simulator System.
2. After formal turnover, BTMD shall be responsible for the ongoing operation, maintenance, data updates, and security of the system.
3. BTMD may implement enhancements, modifications, or upgrades to the system in coordination with its designated IT personnel.

## **VII. DATA PRIVACY AND CONFIDENTIALITY**

1. Both Partners shall comply with Republic Act No. 10173 (Data Privacy Act of 2012) to ensure confidentiality and data protection.
2. The Capstone Group shall not disclose confidential information obtained during the project except for academic requirements.

## **VIII. MISCELLANEOUS PROVISIONS**

1. **Entire Agreement.** This Agreement constitutes the entire understanding between the Partners.
2. **Authority.** Each Partner affirms that the signatory is duly authorized to bind their Institution.
3. **Amendment.** Any amendment must be in writing and signed by both Partners.
4. **Limitation of Liability.** The Traffic Simulator System is developed for academic purposes. UPHSD and the Capstone Group shall not be held liable for any direct or indirect damages arising from the use, misuse, or interpretation of the system's outputs after turnover.
5. The system is provided on an 'as-is' basis without warranty of continuous performance or error-free operation.
6. **Relationship.** Nothing herein creates a joint venture or agency relationship.
7. **Effectivity and Termination.** This Agreement is effective upon signing and valid until June 2026, unless terminated earlier by mutual consent with 15 days prior notice.
8. **Separability.** Invalid provisions shall not affect the validity of the remaining terms.
9. **Governing Law and Venue.** This Agreement shall be governed by Philippine laws. Disputes shall be settled amicably or filed before competent courts in Bacoor City.

**IN WITNESS WHEREOF**, the Parties have hereunto affixed their signatures this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, in the City of Bacoor, Province of Cavite.

**FOR AND ON BEHALF:**

**UNIVERSITY OF PERPETUAL HELP  
SYSTEM DALTA – MOLINO CAMPUS**

**CITY GOVERNMENT OF BACOR**

**BY:**

**BY:**

**DR. RENO R. RAYEL**  
*School Director, UPHSD*

**HON. STRIKE B. REVILLA**  
*City Mayor, LGU*

**BACOR TRAFFIC MANAGEMENT DEPARTMENT**

**BY:**

**MS. LESLIE DIANNE V. MORALES**  
*Officer in Charge, BTMD*

**SIGNED IN THE PRESENCE OF:**



**MS. MARIBEL S. SANDAGON**

*OIC Dean, College of Computer Studies – Molino Campus*

## ACKNOWLEDGMENT

REPUBLIC OF THE PHILIPPINES  
CITY OF BACOR, CAVITE

BEFORE ME, a Notary Public, personally appeared the following persons with their respective competent evidence of identity the particulars of which are indicated below:

Name	Competency Evidence of Identity (ID No.)	Date and Place of Issue/Validity
DR. RENO R. RAYEL		
HON. STRIKE B. REVILLA		
MS. LESLIE DIANNE V. MORALES		

Known to me and to me known to be the same persons who executed the foregoing Agreement, and they acknowledged to me that the same is free and voluntary act and deed and the Corporation/entities they respectively represent.

This instrument consists of seven (7) pages including this page where the acknowledgement is written, signed at the end thereof by the parties and their witnesses, and on each and every page thereof.

WITNESS MY HAND AND SEAL this \_\_\_\_ day of \_\_\_\_\_, 20\_\_ in \_\_\_\_\_.

Notary Public

Doc. No. \_\_\_\_  
Page No. \_\_\_\_  
Book No. \_\_\_\_  
Series of \_\_\_\_