



Republic of the Philippines  
PROCUREMENT DEPARTMENT  
Quezon City Government



PO Number **2308027**

Purchase Order Date: **AUG 29 2023**

Procuring Unit : CITY ADMINISTRATOR'S OFFICE

Project Number : CAO-23-IT-1070

Company Name : NOVWARE SYSTEMS INC.

Mode of Procurement : Public Bidding

Address : 67 Saleng St. Brgy. Veterans Village, Project 7, Quezon City

Resolution No. : 23-PB-490

Business Type : Corporation Registration #CS201003914

TIN Number : 007-645-880-000

Contact Number : 0917-590-7288

Sir/Madam:

Please furnish this office the following articles subject to the terms and conditions contained here:

Place of Delivery : Upon end-user's instruction subject to proper coordination with CGSD

Delivery Schedule : Sixty (60) Calendar Days

Payment Term : Credit

Stock No.	Item	Unit of Issue	QTY	Unit Cost	Amount
1	<p>SUPPLY, DELIVERY, INSTALLATION, AND COMMISSIONING OF THE QUEZON CITY ZONING CLASSIFICATION AND MAPPING ONLINE SYSTEM</p> <p>Project Description</p> <p>This project will provide the Zoning Administration Unit (ZAU) with an online system for mapping all the zones within Quezon City, assigning the proper classification for each zone. The resulting aggregate zone map will be used by other departments that need to determine to which zoning classification a location belongs. Phase 1 shall be a cloud-based system while a 2nd phase can possibly be implemented for an on premise system.</p> <p>Project Scope of Work</p> <p>The system will have the following components:</p> <p>i. Technical Specifications:</p> <p>a) All internal users will require a valid email address to log in and use the system. They can recover their password through their email.</p> <p>b) The web applications will be accessible using the latest versions of Safari and Chrome on Mac/iOS and Chrome on Windows/Android</p> <p>c) The web applications will store all data and documents in the cloud instead of on-premises servers.</p> <p>d) The cloud-based hosting of the data will be provided for one (1) year, subject to renegotiation thereafter.</p> <p>e) All data captured by the system shall remain the property of the City, and the cloud-based storage that contains the data will be turned over to the City when the service agreement expires or is terminated.</p> <p>f) The system will register the subdomain to the DNS service provider of quezoncity.gov.ph.</p>	lot	1	29,890,000.00	29,890,000.00

MA. JOSEFINA G. BELMONTE  
City Mayor

MARLON BERNARDINO / 8/29/23  
Signature Over Printed Name of Supplier / Date

Funds Available:

RUBY G. MANANGU  
City Accountant

OBR : MW-212M-05-08047

Approved Budget for the Contract : 30,000,000.00



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	Google Maps and its CRS and can be correctly loaded into the platform for plotting onto a map. ✓ c) Polygon Attributes 1. Each polygon must contain all the necessary attributes in order to fulfill the project requirements ✓ 2. Each polygon should contain the following attributes: ✓ a. Polygon ID - Each polygon ID must be unique ✓ b. Latitude - The latitude for each point in each polygon must be accurate to at least 6 decimal places ✓ c. Longitude - The longitude for each point in each polygon must be accurate to at least 6 decimal places ✓ d. Zoning classification - Each polygon must contain its zoning classification ✓ d) Online Mapping Modules ✓ 1. Admin/backend features: ✓ a. Display an Online Map using Google Maps as the basemap and the QC Zoning Data as an overlay on the map. ✓ b. Use Google Maps technology as the foundation of the online map. ✓ c. Display the QC Zoning Data as polygons on the map with transparency to still appreciate the basemap, color coding to easily differentiate between zone types, and a legend to help in identifying zone types. ✓ d. Display a pop-up tool tip which will display the Zone Type of the clicked polygon as well as remarks if any. ✓ e. Allow users to upload converted compatible files which will then be displayed as zoning polygon data in the map. ✓ f. Allow users to provide remarks per polygon. ✓ 2. Viewer/public facing features: ✓ a. Allow user to view an online map using Google Maps as the basemap and the QC Zoning Data as an overlay on the map. ✓				

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**RUBY G. MANANGU**  
City Accountant

**OBR :** *Nov. 21am. 08. 05047*

**Approved Budget for the Contract :** 30,000,000.00





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	<p>ii.Security:</p> <p>a)The web server will be protected by SSL certificates. ✓</p> <p>b)The web server will be a separate instance from the database server. ✓</p> <p>c)The system will implement industry standard measures to protect user data, prevent web fraud, mitigate bot attacks, secure APIs, and prevent unauthorized application access. ✓</p> <p>d)The system should conform with applicable data privacy laws. The application must also conform/abide with the Department of Information and Communications Technology (DICT) Philippine Government's Cloud First Policy (latest version). ✓</p> <p>iii.System Features:</p> <p>a)Due diligence</p> <p>1.Investigate and understand the multiple sources of GIS zoning data by meeting with GIS specialists through ZAU officers ✓</p> <p>2.The source data for the zoning map shall be acquired from ZAU in the form of ArcGIS shapefiles. ✓</p> <p>3.The service provider will define the business requirements document of the presentation of the data by allowing it to be viewed, processed, and enhanced using a mapping system based on Google Maps ✓</p> <p>4.The Zone Classification and Mapping System must fully integrate with the existing QC-eServices Web Portal, supporting universal login accounts and single sign-on (SSO) ✓</p> <p>b)Data conversion</p> <p>1.Source data file from ZAU shall be sourced from ArcGIS. ✓</p> <p>2.The source data file should contain the coordinates, northing, easting, and zone classification for each polygon. ✓</p> <p>3.The source data must be transformed into the proper Coordinate Reference System (CRS) used by Google Maps. ✓</p> <p>4.The transformed zoning polygon data will be compatible with</p>				

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**RUBY G. MANANGU**  
City Accountant

**OBR :** NO. 2024-08-08047

**Approved Budget for the Contract : 30,000,000.00**



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	<p>b. Allow users to pan, zoom in, zoom out, and navigate the map. - c. Allow users to search for specific addresses, landmarks, and/or establishments using the Google Maps search function. ✓ d. Allow users to identify the zoning classification of a user nominated point by either clicking on a point in the map or by using the search function. ✓ e. Allow users to click on a polygon on the map and view its Zone Classification. ✓ 3. The City will have unlimited usage of the mapping technology within the confines of this project as long as the mapping system is in use and is being maintained by the provider ✓ e) Zoning verification API ✓ 1. The service provider must develop an Application Programming Interface (API) that will allow third party systems to identify the Zoning classification and Barangay of a supplied set of coordinates or pinned location ✓ 2. The API must include security features that safeguard against data leaks ✓ ***with attached Terms of Reference which will form an integral part of this bidding document***</p> <p>***** Nothing Follows *****</p>				

**Total Amount : 29,890,000.00**

**Total Amount In Words (Pesos):** Twenty-Nine Million Eight Hundred Ninety Thousand Pesos Only

**MA. JOSEFINA G. BELMONTE**  
City Mayor



**MARLON BELWANDIND** / 8/29/23  
Signature Over Printed Name of Supplier / Date

**Funds Available:**

**RUBY G. MANANGU**  
City Accountant

**OBR :** 10-2122 OB. 08047

**Approved Budget for the Contract : 30,000,000.00**