



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF BUDGET AND MANAGEMENT
 GENERAL SOLANO STREET, SAN MIGUEL, MANILA

SUPPLEMENTAL/BID BULLETIN (SBB) NO. 3

This SBB No. 3 dated May 22, 2023 for **Project No. DBM-2023-21, “Subscription to Application Programming Interface (API) Management Platform,”** is issued pursuant to Section 22.5 of the 2016 Revised Implementing Rules and Regulations of Republic Act No. 9184, to clarify, modify or amend items in the Bidding Documents. Accordingly, this shall form an integral part of the Bidding Documents.

PARTICULARS	AMENDMENTS
<p style="text-align: center;">Section I. Invitation to Bid</p> <p style="text-align: center;">xxx</p> <p>2. The DBM now invites bids for the above-entitled Procurement Project. Delivery of the Goods is required as specified in Section VI (Schedule of Requirements) of the Bidding Documents. Bidders should have completed within the period of May 23, 2018 to May 22, 2023 a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).</p> <p style="text-align: center;">xxx</p> <p>5. A complete set of Bidding Documents may be acquired by interested Bidders on April 25, 2023 from the given address and website below and upon payment of a fee in the amount of Fifty Thousand Pesos (P50,000.00).</p> <p>Payment may be made in either mode, as follows:</p> <p>a) Online payment through the Landbank Link.Biz Portal. However, this mode of payment may only be done until May 19, 2023 (four [4] calendar days before the Submission of Bids), 11:00 p.m., for crediting and recording purposes. Procedural guidelines for online payment may be accessed via</p>	<p style="text-align: center;">Section I. Invitation to Bid</p> <p style="text-align: center;">xxx</p> <p>2. The DBM now invites bids for the above-entitled Procurement Project. Delivery of the Goods is required as specified in Section VI (Schedule of Requirements) of the Bidding Documents. Bidders should have completed within the period of May 23 30, 2018 to May 22 29, 2023 a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).</p> <p style="text-align: center;">xxx</p> <p>5. A complete set of Bidding Documents may be acquired by interested Bidders on April 25, 2023 from the given address and website below and upon payment of a fee in the amount of Fifty Thousand Pesos (P50,000.00).</p> <p>Payment may be made in either mode, as follows:</p> <p>a) Online payment through the Landbank Link.Biz Portal. However, this mode of payment may only be done until May 19 26, 2023 (four [4] calendar days before the Submission of Bids), 11:00 p.m., for crediting and recording purposes. Procedural guidelines for online payment may be accessed via</p>

PARTICULARS	AMENDMENTS
<p data-bbox="252 237 788 488"> https://dbm.gov.ph/images/Advisory_for_Bidders_Suppliers-LinkBiz.pdf. Bidders shall present its confirmation receipt to the BAC Secretariat in person, by facsimile, or through electronic means, which shall be used as proof of payment for the bidding documents fee. </p> <p data-bbox="421 535 475 560">xxx</p> <p data-bbox="108 602 788 817"> 7. Bids must be duly received by the BAC Secretariat or the DBM-Central Records Division through manual submission at the office address indicated below on or before May 23, 2023, 10:30 a.m. Late bids shall not be accepted. </p> <p data-bbox="421 864 475 889">xxx</p> <p data-bbox="108 931 788 1294"> 9. Bid opening shall be on May 23, 2023, 10:30 a.m., at the given address below and via video conferencing. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity. Authorized attendees, including representatives of bidders, who are physically present at the BAC Conference Room, DBM Building III, General Solano St., San Miguel, Manila shall likewise join the meeting via videoconferencing. </p> <p data-bbox="421 1341 475 1366">xxx</p>	<p data-bbox="906 237 1493 488"> https://dbm.gov.ph/images/Advisory_for_Bidders_Suppliers-LinkBiz.pdf. Bidders shall present its confirmation receipt to the BAC Secretariat in person, by facsimile, or through electronic means, which shall be used as proof of payment for the bidding documents fee. </p> <p data-bbox="1123 535 1177 560">xxx</p> <p data-bbox="815 602 1495 817"> 7. Bids must be duly received by the BAC Secretariat or the DBM-Central Records Division through manual submission at the office address indicated below on or before May 23 30, 2023, 10:30 a.m. 1:00 p.m. Late bids shall not be accepted. </p> <p data-bbox="1123 864 1177 889">xxx</p> <p data-bbox="815 931 1495 1294"> 9. Bid opening shall be on May 23 30, 2023, 10:30 a.m. 1:00 p.m., at the given address below and via video conferencing. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity. Authorized attendees, including representatives of bidders, who are physically present at the BAC Conference Room, DBM Building III, General Solano St., San Miguel, Manila shall likewise join the meeting via videoconferencing. </p> <p data-bbox="1123 1341 1177 1366">xxx</p>
<p data-bbox="108 1413 577 1442">Section II. Instructions to Bidders</p> <p data-bbox="421 1489 475 1514">xxx</p> <p data-bbox="118 1556 788 1628">10. Documents comprising the Bid: Eligibility and Technical Components</p> <p data-bbox="421 1664 475 1688">xxx</p> <p data-bbox="172 1731 788 1872"> 10.2. The Bidder's SLCC as indicated in ITB Clause 5.3 should have been completed within the period of May 23, 2018 to May 22, 2023. </p> <p data-bbox="421 1919 475 1944">xxx</p>	<p data-bbox="810 1413 1279 1442">Section II. Instructions to Bidders</p> <p data-bbox="1123 1489 1177 1514">xxx</p> <p data-bbox="821 1556 1492 1628">10. Documents comprising the Bid: Eligibility and Technical Components</p> <p data-bbox="1123 1664 1177 1688">xxx</p> <p data-bbox="876 1731 1492 1872"> 10.2. The Bidder's SLCC as indicated in ITB Clause 5.3 should have been completed within the period of May 23 30, 2018 to May 22 29, 2023. </p> <p data-bbox="1123 1919 1177 1944">xxx</p>

PARTICULARS		AMENDMENTS	
<p>14. Bid Security</p> <p style="text-align: center;">xxx</p> <p>14.2 The Bid and bid security shall be valid until September 20, 2023. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.</p> <p style="text-align: center;">xxx</p>		<p>14. Bid Security</p> <p style="text-align: center;">xxx</p> <p>14.2 The Bid and bid security shall be valid until September 20 27, 2023. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.</p> <p style="text-align: center;">xxx</p>	
II. Bid Data Sheet		II. Bid Data Sheet	
ITB Clause		ITB Clause	
xxx		xxx	
5.3	<p>For this purpose, contracts similar to the Project shall:</p> <p style="text-align: center;">xxx</p> <p>b. have been completed within the period of May 23, 2018 to May 22, 2023.</p>	5.3	<p>For this purpose, contracts similar to the Project shall:</p> <p style="text-align: center;">xxx</p> <p>b. have been completed within the period of May 23 30, 2018 to May 22 29, 2023.</p>
20	<p>The bidder with the Lowest Calculated Bid shall submit ALL of the following post-qualification requirements:</p> <p style="text-align: center;">xxx</p> <p>4. As support to item 4.2 of Annex “A” (Detailed Technical Specifications), the following should be submitted:</p> <p style="text-align: center;">xxx</p> <p>ii. Gartner’s report/specific certification showing Full Life Cycle API Management for at least three (3) consecutive years based on the latest Gartner Magic Quadrant report either 2021 or 2022 from Gartner's Leaders Quadrant;</p> <p style="text-align: center;">xxx</p>	20	<p>The bidder with the Lowest Calculated Bid shall submit ALL of the following post-qualification requirements:</p> <p style="text-align: center;">xxx</p> <p>4. As support to item 4.2 of Annex “A” (Detailed Technical Specifications), the following should be submitted:</p> <p style="text-align: center;">xxx</p> <p>ii. Gartner’s report/specific certification showing Full Life Cycle API Management for at least three (3) consecutive years based on the latest Gartner Magic Quadrant report either 2021 or AS OF 2022 from Gartner's Leaders Quadrant;</p> <p style="text-align: center;">xxx</p>

PARTICULARS	AMENDMENTS
<p>Section VII. Technical Specifications</p> <p>Annex “A” (Detailed Technical Specifications) (Revised)</p> <p style="text-align: center;">xxx</p> <p>4.2.2 Proposed solution must be in the Gartner’s Leaders Quadrant for Full Life Cycle API Management for at least three (3) consecutive years based on the latest Gartner Magic Quadrant report as of either 2021 or 2022;</p> <p style="text-align: center;">xxx</p> <p>4.2.4 Contractor must have received at least ten (10) technology-related awards and/or recognitions;</p> <p style="text-align: center;">xxx</p> <p>4.3.50 Proposed solution must have perpetual licensing scheme with annual maintenance; 4.3.51 Proposed solution must be deployed via containers;</p>	<p>Section VII. Technical Specifications</p> <p>Annex “A” (Detailed Technical Specifications) (Revised)</p> <p style="text-align: center;">xxx</p> <p>4.2.2 Proposed solution must be in the Gartner’s Leaders Quadrant for Full Life Cycle API Management for at least three (3) consecutive years based on the latest Gartner Magic Quadrant report as of either 2021 or 2022;</p> <p style="text-align: center;">xxx</p> <p>4.2.4 Contractor must have received at least ten (10) FIVE (5) technology-related awards and/or recognitions;</p> <p style="text-align: center;">xxx</p> <p>4.3.50 Proposed solution must have perpetual licensing scheme with annual maintenance; 4.3.51 50 Proposed solution must be deployed via containers;</p>
<p>4.3.52 Proposed solution must be deployed on-premises; 4.3.53. Proposed solution must have built-in high availability (HA) feature for production environment; 4.3.54. Proposed solution must provide data hosting services;</p>	<p>4.3.52.51 Proposed solution must be deployed on-premises; 4.3.53.52 Proposed solution must have built-in high availability (HA) feature for production environment; 4.3.54.53 Proposed solution must provide data hosting services (ON-PREMISE OR CLOUD DEPLOYMENT);</p>
<p>Statement of all Ongoing Government and Private Contracts Including Contracts Awarded but not yet Started</p> <p style="text-align: center;">xxx</p> <p>Instructions:</p> <p>i. State ALL ongoing contracts including those awarded but not yet started (government [including the DBM] and private contracts which may be similar or not similar to the project being bid) up to May 22, 2023.</p> <p style="text-align: center;">xxx</p>	<p>Statement of all Ongoing Government and Private Contracts Including Contracts Awarded but not yet Started (REVISED)</p> <p style="text-align: center;">xxx</p> <p>Instructions:</p> <p>i. State ALL ongoing contracts including those awarded but not yet started (government [including the DBM] and private contracts which may be similar or not similar to the project being bid) up to May 22 29, 2023.</p> <p style="text-align: center;">xxx</p>

PARTICULARS	AMENDMENTS
<p>Statement of Single Largest Completed Contract which is Similar in Nature</p> <p style="text-align: center;">xxx</p> <p>Instructions:</p> <p>b. The SLCC should have been completed (i.e., accepted) within the period of May 23, 2018 to May 22, 2023.</p> <p style="text-align: center;">xxx</p>	<p>Statement of Single Largest Completed Contract which is Similar in Nature (REVISED)</p> <p style="text-align: center;">xxx</p> <p>Instructions:</p> <p>b. The SLCC should have been completed (i.e., accepted) within the period of May 23 30, 2018 to May 22 29, 2023.</p> <p style="text-align: center;">xxx</p>
	<p>Note:</p> <p><u>Attached are the following documents which should be used as part of the Bidding Documents to be submitted by the bidders:</u></p> <ol style="list-style-type: none"> 1. Annex “A” (Detailed Technical Specifications) (Revised); 2. Statement of all Ongoing Government and Private Contracts Including Contracts Awarded but not yet Started (Revised); and 3. Statement of Single Largest Completed Contract which is Similar in Nature (Revised).

Other matters:

- The “No Contact Rule” shall be strictly observed. Bidders are not allowed to communicate with any member of the Bids and Awards Committee, Technical Working Group or Secretariat effective May 30, 2023 right after the opening of bids.
- For guidance and information of all concerned.

CLARITO ALEJANDRO D. MAGSINO
Assistant Secretary
Chairperson, DBM-BAC

Detailed Technical Specifications (Revised)

1.0 Project Title

Subscription to Application Programming Interface (API) Management Platform

2.0 Objective

The Contractor should be able to provide industry-standard Application Programming Interface (API) Management Platform, whose technical and functional features conform to item 4.

3.0 Subscription Period

Twelve (12) months from the receipt of the Notice to Proceed, to be delivered to the DBM Central Office.

4.0 Specifications and Scope of Work

4.1. API Platform

4.1.1. Overview

4.1.1.1. API gateway is the entry point for all the external calls which call the microservices / APIs. The main concept of API gateway is to secure the microservices at the same time giving access to external world to make use of the underlying data or services. API gateway manages the incoming traffic and can also provide load balancing by diverting the traffic to relevant services.

4.1.1.2. Organizations are undergoing digital transformation to accelerate innovation, unlock new markets and drive new revenue that is revolutionizing every interaction, making business services and data available through APIs to various types of developers - internal, partner and third party. These APIs are then consumed by developers to build Mobile, Web, Internet of Things, Business Partner, and Internal LoB applications for end users to use. This supply demand relationship creates this Economy of API Providers and API Consumers.

4.2. General Requirements

4.2.1. Technology provider of the proposed solution must be in the business for at least twenty (20) years;

4.2.2. Proposed solution must be in the Gartner's Leaders Quadrant for Full Life Cycle API Management for at least three (3) consecutive years based on the latest Gartner Magic Quadrant report as of 2022;

- 4.2.3. Contractor must have partnership with the Principal/Technology provider for at least ten (10) years;
- 4.2.4. Contractor must have received at least five (5) technology-related awards and/or recognitions
- 4.2.5. Proposed solution must be supported by at least one (1) The Open Group Architecture Framework (TOGAF) certified resource
- 4.2.6. Must conduct Proof of Concept;

4.3. Proposed Solution Components

- 4.3.1. Must be able to support the entire lifecycle of an API from idea, design, approval, build, deployment, and manage and govern;
- 4.3.2. Must be able to help create uniform, consistent, well-formed APIs, even if the underlying backend systems weren't built that way;
- 4.3.3. Must be able to add existing SOAP services;
- 4.3.4. Must be able to automate deployment of assets for the development lifecycle;
- 4.3.5. Must be able to reference existing assets such as encryption libraries, schema validation tools, data validation libraries, etc.;
- 4.3.6. Must be able to support threat detection by detecting fraudulent data injections at the API level;
- 4.3.7. Must be able to protect from traffic spikes;
- 4.3.8. Must be able to manage API consumption through quotas;
- 4.3.9. Must be able to allow quota setup both by developers, as well as by product managers post-development;
- 4.3.10. Must be able to have quotas synchronized across multi-region deployments;
- 4.3.11. Must be able to support publishing of SOAP, REST, JSON, and XML style services as APIs and as JMS;
- 4.3.12. Must be able to support API mashups;
- 4.3.13. Must be able to show any out of the box functions for doing traffic mediation, transformation, and security at the API Level;
- 4.3.14. Must include standard transformations for the following:
 - 4.3.14.1. XML to JSON;
 - 4.3.14.2. JSON to XML;
 - 4.3.14.3. SOAP to REST; and
 - 4.3.14.4. REST to SOAP
- 4.3.15. Must be able to support all the following variations of REST API definitions
 - 4.3.15.1. Single/dual verb (i.e., GET, POST only);
 - 4.3.15.2. Four verbs (POST, GET, PUT, DELETE);
 - 4.3.15.3. XML payloads;
 - 4.3.15.4. JSON payloads; and
 - 4.3.15.5. XHTML payloads
- 4.3.16. Must be able to support all the following advanced variations of REST API definitions:
 - 4.3.16.1. Additional verbs (e.g., PATCH, HEAD, OPTIONS, etc.);
 - 4.3.16.2. Custom media types; and

- 4.3.16.3. Compressed payloads (e.g., zip)
- 4.3.17. Must be able to support HTTP & HTTPS;
- 4.3.18. Must have built-in debugging tools;
- 4.3.19. Built-in debugging tool must be able to show "before" and "after" of each policy during replay;
- 4.3.20. Must be able to support API versioning;
- 4.3.21. Must be able to store all policies and system configuration in standard-based XML with well published schemas for easy migration/promotion;
- 4.3.22. Proxy must be able to support caching;
- 4.3.23. Proxy must be able to support rate limiting, quotas, and spike arrests;
- 4.3.24. Must dynamically change behavior based upon factors such as user credentials, location, device type, etc.;
- 4.3.25. Proxy must be able to support dynamic routing (orchestration – or intelligent routing to a second system based upon the response from a first system);
- 4.3.26. Must be able to show the out-of-the-box backend service APIs for common application functionality such as user management, data storage and synchronization, messaging, and locations;
- 4.3.27. Must be able to support identity integration with popular social networks and internet services;
- 4.3.28. Must be able to store binary objects such as files and images;
- 4.3.29. The service provider should be able to provide an example of large-scale deployments using this platform;
- 4.3.30. Must be able to support extensions using common languages like Java, Python, or JavaScript;
- 4.3.31. Must have wizards to generate APIs from Swagger, SOAP services, and other backend services;
- 4.3.32. Must be able to show the standard governance features available in the platform;
- 4.3.33. Must be able to support API Lifecycle governance;
- 4.3.34. Must be able to publish APIs for external and internal consumers;
- 4.3.35. Must be able to manage API visibility and restrict access to consumers;
- 4.3.36. Must be able to keep a separation between the API development, API management, and Policy Administration;
- 4.3.37. Must have a configuration that allows exporting from an environment and importing to another environment, such as UAT configuration to Production environment;
- 4.3.38. Must be able to provide backward support to partners by maintaining obsolete API versions. This should enable partners who are not ready for the new API version yet can still continue their services;
- 4.3.39. Must be able to provide effective mechanism to retry obsolete API with manageable impact to existing partners;
- 4.3.40. Must be able to support source code control mechanism;
- 4.3.41. Must allow source codes to be checked in and checked out from external source code repository in the backend system;

- 4.3.42. Must be able to provide a tool to facilitate an efficient developer and partner on-boarding;
- 4.3.43. Must be able to automatically generate API documentation, which must be updated when microservices are created, modified, and/or retired;
- 4.3.44. Must be able to provide approval workflow when partners subscribe to API services in order to process the partners' subscription requests;
- 4.3.45. Must be able to provide role-based authorization on the workflow;
- 4.3.46. Must be able to provide rule-based routing to deliver subscription request to the associated approvers;
- 4.3.47. Must be able to provide out-of-the-box notification to API subscribers, such as email, SMS and etc., in order for further on boarding process;
- 4.3.48. Proposed solution licensing must be based on per API call hybrid entitlement;
- 4.3.49. Contractor must propose and support for at least three hundred million (300M) API Calls per year to be shared for all environments;
- 4.3.50. Proposed solution must be deployed via containers;
- 4.3.51. Proposed solution must be deployed on-premises;
- 4.3.52. Proposed solution must have built-in high availability (HA) feature for production environment;
- 4.3.53. Proposed solution must provide data hosting services (on-premise or cloud deployment);

4.4. API Portal

- 4.4.1. Must be able to show how assets are manifested in the developer portal for developer use;
- 4.4.2. Must be able to facilitate on-boarding;
- 4.4.3. Must be able to be deployed either on-premises or on-cloud;
- 4.4.4. Must be able to provide interactive documentation to allow API consumers to easily try out published APIs;
- 4.4.5. Must allow each developer (or team) to get their own personalized metrics;
- 4.4.6. Must allow customizable registration form;
- 4.4.7. Must allow customers to customize, skin, and modify the portal without vendor involvement;
- 4.4.8. Must leverage on standard CMS technologies to ensure easy-to-find skill sets and pre-existing modules;
- 4.4.9. Must provide the ability to revoke or suspend developer keys;
- 4.4.10. Must be able to support a B2B2D type model which allows enterprises to let their partners manage their own pool of developers and their access to the enterprise's APIs;
- 4.4.11. Must provide a user interface to try out or test an API or SOAP service within the Portal and the API Admin;
- 4.4.12. Must allow developers to share information and documentation as well as discussion forums pertaining to APIs in the tool;
- 4.4.13. Must be able to provide documentation on-demand on how to use the APIs;

- 4.4.14. Must be able to sunset and retire APIs automatically without impacting production;
- 4.4.15. Must allow restricting of access to the catalog so that developers can only see information about the API's they are granted access to;
- 4.4.16. Must be able to show how risk of malicious attacks from the outside accessing internal APIs are avoided;
- 4.4.17. Must be able to provide any self-serving ability for application developers to register access to APIs;
- 4.4.18. Must be able to support skinning of all externally visible aspects to comply with CUSTOMER branding;
- 4.4.19. Must be able to show the level of customization that can be done in the portal without the need for vendor involvement.
- 4.4.20. Must be capable to transform the interface specification (WSDL) into asset library (e.g., importing WSDL files);
- 4.4.21. Must allow categorization and managing of groups for partners, as API consumer. For example, an API consumer group for division A managed to use individual policy with is separated from division B;
- 4.4.22. Must be capable to enforce usage quota based on partner subscription policy;
- 4.4.23. Must be able to support multiple teams to manage their quotas independently;
- 4.4.24. Must be able to provide flexible way to manage and control API usage by partners once usage quota has been reached;
- 4.4.25. Must be able to notify subscribers when pre-defined quota thresholds have been reached;

4.5. Transformation and Orchestration

- 4.5.1. Must be able to support the following message formats
 - 4.5.1.1. XML; and
 - 4.5.1.2. JSON
- 4.5.2. Must be able to support the message formats above natively as first-class citizens. Please explain if the platform does not support that, such as the need to transform these message formats to XML in order to manipulate the messages;
- 4.5.3. Must be able to provide a graphical mapping tool to map and transform request and response between the message formats described above;
- 4.5.4. Must be able to support JSON transformation standards;
- 4.5.5. Must be able to support XML transformation standards such as XSLT and Xquery;
- 4.5.6. Must be able to support the use of Enterprise Integration Patterns in the development of APIs;
- 4.5.7. Must be able to show how business users (end users) can be allowed access to e.g., some certain self-service portal or catalogue where they via a simple user interface can on-board e.g., new EDI partners or do simple predefined integration scenario/flow customizing.

4.6. API Security

- 4.6.1. Must be able to support single sign-on (SSO) across all the roles involved in the lifecycle;
- 4.6.2. Must be able to be supported by the standard industry security certifications available for the product;
- 4.6.3. Must use open standards to delegate authentication capabilities to tenants;
- 4.6.4. Must support API security mechanisms such as tokenization, encryption, and policy systems;
- 4.6.5. Must be able to show the security / policy enforcement options when some assets might require additional security in a cloud/on-premises infrastructure;
- 4.6.6. Must be able to support OAuth;
- 4.6.7. Enumerate the versions of OAuth supported by the product;
- 4.6.8. Must be able to support both secure channels and secure payloads;
- 4.6.9. Proxy must be able to provide support for CORS;
- 4.6.10. Proxy must be able to protect against XML or JSON attacks;
- 4.6.11. Must be able to handle role-based access controls to ensure different members of the API team can perform their roles effectively without affecting other teams;
- 4.6.12. Must be able to support custom/proprietary implementations;
- 4.6.13. Must be able to secure APIs at the operation level (Ex: can do GET, but not POST or PUT);
- 4.6.14. Must be able to support FIPS 140;
- 4.6.15. Must be able to work with malware/antivirus software;
- 4.6.16. Must support the development and application of custom security policies;
- 4.6.17. Security features must be available as self-service via configuration (not via coding);
- 4.6.18. Must be able to prevent PII information from being viewed during monitoring, logging, and audit;
- 4.6.19. Must have auditing of administrator activity;
- 4.6.20. Must be secured by design. The internet facing component must be deployed in DMZ and able to integrate with backend systems/components in secured network zone;
- 4.6.21. According to security policies, the API Gateway component must support backend integration over SSL;
- 4.6.22. Must be able to provide backward compatibility with older version of SSL in case of integration with legacy system;
- 4.6.23. OAuth is one of the most widely used forms of authentication for consumer or partner facing apps. The proposed solution must be able to provide out-of-the-box OAuth Authentication capability;
- 4.6.24. Must be able to provide capability to integrate with Active Directory, Secured LDAP and other authentication system in bank backend systems;
- 4.6.25. The API Gateway must not use Java or other open-source libraries that can introduce vulnerabilities into the system.

4.7. Analytics

- 4.7.1. Must be able to show the out-of-the-box reports provided by the tool;
- 4.7.2. UI must allow drill down on each chart;
- 4.7.3. Analytics data, once collected, must provide an API for easy access and export;
- 4.7.4. Must allow the system to provide business-level visibility.;
- 4.7.5. Must be able to create reports on-demand;
- 4.7.6. Must be able to provide service performance monitoring, reporting, and analysis;
- 4.7.7. If payload data is captured, must be able to use this data for reporting;
- 4.7.8. Must be able to show what the exception management reporting capabilities are;
- 4.7.9. Must be able to provide end-to-end visibility and trending performance statistics;
- 4.7.10. Must be able to provide performance management data with counters per application type and per API message type;
- 4.7.11. Must have available reporting for the developer (ex. call latency, SLA compliance, other metrics);
- 4.7.12. Must collect analytics asynchronously so as not to impede runtime traffic;
- 4.7.13. Must be able to show the level of operational visibility the solution can provide based on API traffic flowing through the system.

4.8. Scope of Work

- 4.8.1. Must be able to complete the setup, installation, and configuration for all environments within three (3) months upon project kick-off;
- 4.8.2. Must be able to setup, install, and configure for non-production (Dev/QA) and production environment;
- 4.8.3. Must be able to configure the API Management Portal platform in non-production within one (1) month upon project kick-off and for production within one and a half (1 ½) months upon project kick-off;
- 4.8.4. Must be able to configure and customize ten (10) APIs in non-production within four (4) months upon project kick-off and deployed to productions within five (5) months upon project kick-off;
- 4.8.5. Must be able to deliver Custom Developer Portal within one and a half (1 ½) months upon project kick-off for non-production and two and a half (2 ½) months upon project kick-off for production;
- 4.8.6. Must provide recommended hardware and software requirements (storage, virtual CPU, virtual RAM) for all system environments;
- 4.8.7. Development service delivery shall be incorporating the DevOps/DevSecOps approach and the Agile methodology;
- 4.8.8. Must be able to conduct Sprint Planning - At the start of the application development project, the team develops user stories - application functionalities as told from the perspective of a user. The list of features based on these stories will serve as the team's product backlog - simply put, the list of things that need to be done;

- 4.8.9. Must be able to perform Daily Scrum - A non-traditional approach to application development also means a change in the way project meetings are held. The team meets for about 15 minutes to create a game plan for the day. In these short and meaningful meetings, the team only intends to remove impediments in achieving their sprint goal;
- 4.8.10. Must conduct Sprint Review/Retrospection - At the end of every sprint, which typically goes for 2 weeks, the team reviews with its stakeholders what went well, what went wrong, and what can be improved for the next sprint;
- 4.8.11. Must work using Continuous Integration - While multiple developers work on different features, code is routinely integrated into a main repository, where it is tested and integrated up to multiple times in a day;
- 4.8.12. Must implement Continuous Testing - Through automated testing, release candidates are tested early and often. The goal is to determine the impact of the changes in the code as fast as possible and whether the changes can be safely deployed into production;
- 4.8.13. Must have experience in Continuous Delivery - When the code is able to go through integration and testing, it is then automatically deployed into a staging environment. The team makes the decision to deploy the changes into production. Thus, a minimum viable product (MVP) is made available;
- 4.8.14. For customized codes outside the core application, the Contractor must use the latest version of NodeJS platform;
- 4.8.15. Delivery of all necessary customized and other software/s, materials, licenses, and other components (other than those to be provided by DBM and subject to DBM approval) required to operate and maintain the solutions internally is included as part of the Project's deliverables;
- 4.8.16. All modules developed by the Contractor for the Project should be turned-over to DBM, including all components necessary to run and support the solution (i.e. source code, configuration file), thru effective knowledge transfer mechanisms such as training and proper turn-over of system documentation;
- 4.8.17. Contractor should provide a structured training for the API Management solution for at least three (3) days or twenty-four (24) hours. Training should be a combination of lecture and laboratory exercises tackling solution introduction, API Design (REST and SOAP) and Definitions, Policies, Analytics, Error Handling, Security, and external-facing Web Portal;
- 4.8.18. The Contractor must have an existing central support using helpdesk system to accommodate technical request. The helpdesk system will provide ticket for each level 1 technical request or issues and will provide status and report until it will resolve. The Helpdesk System of the bidder/contractor must be available 24x7 and should be available for site visit of customer's representative/s for post-qualification evaluation.

5.0 Warranties of the Contractor

- 5.1 For the subscription of the licenses and support, the warranties shall include the following:
 - 5.1.1 The contractor warrants that it shall strictly conform to the terms and conditions of this Detailed Technical Specifications;
 - 5.1.2 The contractor warrants that the technical staff assigned are qualified to provide the deliverables required to the satisfaction of the DBM;
 - 5.1.3 The contractor shall secure, maintain at its own expense all registration, licenses, or permits required by national or local laws and shall comply with the rules, regulations, and directives of regulatory authorities and Commissions;
 - 5.1.4 The contractor's technical staff assigned to support DBM shall take all necessary precautions for the safety of all persons and properties at or near their area of work and shall comply with all the standard and established safety regulations, rules and practices;
 - 5.1.5 The contractor's technical staff assigned to support DBM shall coordinate with the ICTSS in the implementation of this project;
 - 5.1.6 The contractor shall be liable for loss, damage, or injury caused directly or indirectly through the fault or negligence of its technical staff assigned. It shall assume full responsibility therefore and the DBM shall be fully released from any liability arising therefrom;
 - 5.1.7 The contractor shall neither assign, transfer, pledge, nor subcontract any part of or interest on the contract being bid out; and
 - 5.1.8 The contractor shall identify the certified technical staff who will be given authority to access and operate the specified equipment. The DBM, through the ICTSS, shall be informed within five (5) calendar days, through a formal notice, of any change or replacement of technical staff assigned.

6.0 Confidentiality of Data

- 6.1 All technical staff assigned by the contractor shall be required to sign a Non-Disclosure Agreement (NDA).
- 6.2 The DBM Enterprise Network System, its component, parts and all products, products samples and specifications, data, ideas, technology, and technical/nontechnical materials, all or any which may be derived from any of the foregoing are strictly confidential.
- 6.3 The contractor agrees to hold all the foregoing information in strict confidence. The contractor further agrees not to reproduce or disclose any confidential information to third parties without the prior written approval of the DBM.

7.0 Terms of Payment

- 7.1 One-time payment shall be made, subject to the submission of the following documentary requirements, and in accordance with budgeting, accounting, and auditing laws, rules, and regulations:
 - 7.1.1 Proof of API Platform Subscription;
 - 7.1.2 Sales Invoice/Billing Statement;

- 7.1.3 Certificate of Acceptance issued by the Undersecretary for Information and Communications Technology (ICT) Group; and
- 7.1.4 NDA.

**Statement of all Ongoing Government and Private Contracts
Including Contracts Awarded but not yet Started**

[shall be submitted with the Bid]

(Revised)

Business Name: _____

Business Address: _____

Name of Client/Contact Person/Contact Number/Contact Email Address	Date of the Contract	Title of the Contract / Name of the Project	Kinds of Goods	Total Amount of Contract	Value of Outstanding Contract	Date of Delivery
<u>Government</u>						
<u>Private</u>						

Submitted by : _____

(Printed Name and Signature)

Designation : _____

Date : _____

Instructions:

- i. State **ALL** ongoing contracts including those awarded but not yet started (government **[including the DBM]** and private contracts which may be **similar or not similar** to the project being bid) up to May 29, 2023.
- ii. If there is no ongoing contract including those awarded but not yet started as of the aforementioned period, state none or equivalent term.
- iii. The total amount of the ongoing and awarded but not yet started contracts should be consistent with those used in the Net Financial Contracting Capacity (NFCC).

**Statement of Single Largest Completed Contract
which is Similar in Nature**
[shall be submitted with the Bid]
(Revised)

Business Name: _____

Business Address: _____

Name of Client/Contact Person/Contact Number/Contact Email Address	Date of the Contract	Title of the Contract / Name of the Project	Kinds of Goods	Amount of Contract	Date of Acceptance*	End User's Acceptance or Official Receipt(s) Issued for the Contract

Submitted by : _____
(Printed Name and Signature)

Designation : _____

Date : _____

Instructions:

- a. Pursuant to Section 23.4.1.3 of the 2016 Revised IRR of RA No. 9184, the Bidder shall have an SLCC that is at least one (1) contract similar to the Project, the value of which, adjusted to current prices using the PSA's CPI, must be at least equivalent to the following requirements:
 - i. a single contract that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC; **OR**
 - ii. at least two (2) similar contracts:
 - (a) the aggregate amount of which should be equivalent to at least fifty percent (50%) of the ABC for this Project; **AND**
 - (b) the largest of these similar contracts must be equivalent to at least half of the percentage of the ABC as required above (i.e., twenty-five percent [25%]).
- b. The SLCC should have been completed (i.e., accepted) within the period of **May 30, 2018 to May 29, 2023**.
- c. The similar contract for this Project shall refer to the supply and delivery of application programming interface (API) management platform as a service, providing solutions for web-based integrated information technology (IT) systems in the public or private sector. If the supply and delivery of API management platform as a service, providing solutions for web-based integrated IT systems in the public or private sector form part of a bigger contract, only the cost component of the supply and delivery of API management platform as a service, providing solutions for web-based integrated IT systems in the public or private sector shall be considered for purposes of comparing the value thereof to at least fifty percent (50%) of the ABC.

- * Date of Acceptance shall mean the date when the items delivered have **satisfactorily met** the requirements of the procuring entity, as evidenced by either a Certificate of Final Acceptance/Completion from the bidder's client, or an Official Receipt or a Sales Invoice (to be submitted during post-qualification).