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

SUPPLEMENTAL/BID BULLETIN (SBB) NO. 1

This SBB No. 1 dated July 14, 2023 for **Project No. DBM-2023-32, "Budget Data Analytics Managed Services Project,"** 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
Section III. Eligibility Data Sheet	**Section III. Eligibility Data Sheet**

Eligibility Documents		Eligibility Documents	
	xxx		xxx
9.2	xxx Exclusive List of Related Courses, Related Certification on Enterprise Architect & Solutions Architect and Related Trainings for Information Technology, are as follows: List of Related Courses xxx	**9.2**	xxx Exclusive List of Related Courses, Related Certification on Enterprise Architect & Solutions Architect and Related Trainings for Information Technology, are as follows: List of Related Courses xxx **COURSES RELATED TO ENGINEERING, (I.E., ELECTRONICS ENGINEERING, ELECTRICAL ENGINEERING, ELECTRONIC AND INSTRUMENTATIONS, AMONG OTHERS)**
xxx		xxx	

Section VI. Terms of Reference	**Section VI. Terms of Reference**
xxx	xxx
3.2 Scope of Work	**3.2 Scope of Work**
3.3.1 The contractor must be able to provide data collection and management activities:	~~3.3.1~~ **3.2.1** The contractor must be able to provide data collection and management activities:
xxx	xxx

3.3.2 The contractor must be able to provide data analysis and insights activities: xxx	3.3.2. **3.2.2** The contractor must be able to provide data analysis and insights activities: xxx
3.3.3 The contractor must be able to provide reporting and visualizations xxx	3.3.3. **3.2.3** The contractor must be able to provide reporting and visualizations xxx
3.3.4 The contractor must be able to have a Stakeholder management xxx	3.3.4. **3.2.4** The contractor must be able to have a Stakeholder management xxx
3.3.5 The contractor must provide the following data strategy services, which include but not limited to: 4.3.5.1. Data Engineering Services, which includes, but not limited to: xxx	3.3.5. **3.2.5** The contractor must provide the following data strategy services, which include but not limited to: 4.3.5.1. **3.2.5.1** Data Engineering Services, which includes, but not limited to: xxx **h. THE CONTRACTOR MUST PROVIDE THIRTY (30) POWERBI PRO LICENSES FOR ONE (1) YEAR, SAID LICENSES MUST BE PROVIDED TO THE DBM FIFTEEN (15) DAYS FROM RECEIPT OF THE NOTICE TO PROCEED. MOREOVER, THE DOCUMENTATION RELATED TO THIS PROJECT**

	MUST BE TRANSFERRED TO THE DBM ON OR BEFORE DECEMBER 15, 2023, PROVIDED ALL CONFIGURATIONS IN THE PLATFORM (NON-PRODUCTION AND PRODUCTION ENVIRONMENTS) MUST BE COMPLETED EARLIER THAN SEPTEMBER 30, 2023. i. THE CONTRACTOR MUST PROVIDE SUBSCRIPTIONS AND USAGE FOR THE DATA EXCHANGE PLATFORM SPECIFICALLY WITH SUPPORT AND MAINTENANCE.
xxx	xxx
3.3.5 The contractor must have extensive experience in using the DataBricks and Data LakeHouse platform on financial data have had at least three (3) months of experience in using the BigID data discovery tool. And at least one (1) year of experience in implementation/operation / usage of the data exchange platform e.g. Dawex, Harbr etc.	3.3.5 The contractor must have extensive experience in using the DataBricks and Data LakeHouse platform on financial data ~~have had at~~ least three (3) months of experience in using ~~the BigID~~ **the** data discovery tool. And at least one (1) year of experience in implementation/operation / usage of the data exchange platform e.g. Dawex, Harbr etc.
xxx	xxx

3.3.8 The contractor must have the following Project Team (PT) composition/ resource allocation and qualifications: xxx **3.4. Technical Support** 3.4.1 The contractor must provide technical assistance, a contact person would be designated by the contractor and support through email/online/phone in the entire duration of the Project with complete end-to-end customer management such as value-added services, provisioning, management, billing, and technical support. The contact person may be required to visit DBM if deemed necessary;	3.3.8 The contractor must have the ~~following~~ Project Team (PT) composition/ resource allocation and qualifications **IN ACCORDANCE WITH ANNEX A.1.** xxx **3.4. Technical Support** 3.4.1 The contractor must provide technical assistance, a contact person would be designated by the contractor and support through email/online/phone ~~in the entire duration of the Project~~ **UNTIL MARCH 31, 2024** with complete end-to-end customer management such as value-added services, and technical support. The contact person may be required to visit DBM if deemed necessary;
TPF 11. List of all Ongoing Government and Private Contracts Including Contracts Awarded but not yet Started xxx Instructions: i. State all ongoing contracts including those awarded but not yet started (government and private contracts which may be similar or not similar to the project being bidded) prior to July 4, 2023. xxx	**TPF 11. List of all Ongoing Government and Private Contracts Including Contracts Awarded but not yet Started** xxx Instructions: i. State all ongoing contracts including those awarded but not yet started (government and private contracts which may be similar or not similar to the project being bidded) prior to ~~July 4, 2023~~ **AUGUST 29, 2023**. xxx
Queries: 1. Does the budget of PhP25,200,000 cover operations and maintenance of the platform only until December 2023? How long is the expected operation and	**Clarifications:** 1. Yes, the budget will cover the production and non-production activities must be delivered on or before September 30, 2023, per Section 5.0 Terms of Payment, Deliverables and

maintenance of the contractor's platform (non-production and production)?	Liquidated Damages and Annex A.2 List of Deliverables. As regards the technical support, it will be up to March 31, 2024, as part of the warranty per item 3.4 of the Section VI of Terms of Reference. However, the subscription of licenses for the platform will be for a period of one (1) year, reckoned from the 15th day from the receipt of the Notice to Proceed.
2. Is it expected that the contractor transfers ownership and operations (IBNLT: DevOps, MLOps) of the platform to DBM by December 2023?	2. Yes, it is expected that the transfer of ownership and operations must be completed on or before December 15, 2023. However, all configurations in the platform (non-production and production environments) must be completed on or before September 30, 2023 per Item 3.2.5.1 (h) of Section III. Eligibility Data Sheet.
3. Will subsequent post-production development of data pipelines, performance of operations, maintenance, and monitoring of the cloud data platform be handled by DBM?	3. Yes, the DBM will handle the subsequent post-production development and other related activities.
4. In Eligibility Data Sheet, Section 9.2 and page 8, section 2.a.iii, do we already need to submit the notarized CVs of the assigned personnel on the Eligibility Documents submission date (21st July)?	4. Yes. As stated in Section II. Eligibility Documents, item 2.1.a.iii., the respective Consultant's notarized curriculum vitae (CVs) must be submitted as part of the eligibility documents, which shall be on or before the deadline for the submission and opening of eligibility documents on July 21, 2023.
5. In Section 3.3.2, Page 9, it was mentioned during the meeting that what's to be submitted is only 1 copy. But on the eligibility documents definition, it says "an original and copies". How many copies do we need?	5. Item 4.1 of the Eligibility Data Sheet states that, "Each prospective bidder shall submit one (1) original copy of its eligibility documents." Only (1) original copy needs to be submitted.
6. In Annex A.2. List of Deliverables page 111, there was a mentioned data "December 15" when the project should be completed and the budget has to be used. Yet the 3rd tranche (last	6. The 3rd tranche or the last deliverable for the Project must be delivered on or before December 15, 2023. All other documents, including those necessary for the transfer of ownership, required

deliverable) is on December 1st 2023. How is it different?	for the processing of the payment must be submitted to the DBM on or before December 15, 2023. This is to provide enough time in processing the payment for the last tranche of deliverables .
	Note: **Attached are the following documents which should be used as part of the Bidding Documents to be submitted by the bidders:** 1. **Section VI. Terms of Reference (Revised)** 2. **TPF 11. List of all Ongoing Government and Private Contracts Including Contracts Awarded but not yet Started (Revised)** 3. **Annex A.2 List of Deliverables (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 July 21, 2023 right after the opening of bids.

➢ For guidance and information of all concerned.

RAMON VICENTE B. ASUNCION
Director IV
Vice Chairperson, DBM-BAC

Section VI. Terms of Reference (Revised)

TECHNICAL SPECIFICATIONS

1.0 PROJECT TITLE

Budget Data Analytics Managed Services Project

2.0 OBJECTIVE

To be able to provide data science services, budget data analytics dashboards and visualizations utilizing cloud services platforms and analytics tools with necessary platforms to support the creation of dashboards/data visualizations and the future predictive analytics use cases whose technical and functional features conform to item 4.

3.0 SPECIFICATIONS AND SCOPE OF WORK

3.1 Deliverables

3.1.1 Each Dashboard should have the capability to present the most relevant information to the corresponding users and stakeholders (DBM employees, agencies under the Executive and Legislative branch of the government, Local Government Units (LGUs) and Citizens and Society Organizations) in a visual, interactive, and easy to understand interface.

3.1.2 Data Exchange Platform for publishing of data and collaborating with the DBM analyst, and ICT personnel with the availability of facility or module for easy and transparent access to relevant historical data (e.g. eBudget System, Unified Reporting System (URS), Budget and Treasury Management System (BTMS), Government Manpower Information System (GMIS), Personal Services Itemization and Plantilla of Personnel (PSIPOP), Budget Preparation and Management System (BPMS) and other internal/external applications related to DBM as an oversight agency as the source of data.

The contractor must have its owned data exchange platform solutions or capabilities that allows DBM stakeholders and other government agencies or institutions to publish and subscribe to each other's datasets in a secure and governed manner, while still allowing the data publishers to retain control over who can access the data that they share. This is to fully support the data governance implementation on the data sharing initiative, the more data are connected, the higher its utility and value to the DBM as an agency.

The contractor must deploy and run the platform to their own private cloud account (s), and not on DBM's account(s) / subscription(s).

3.2 Scope of Work

3.2.1 The contractor must be able to provide data collection and management activities:
a. Collect and manage budget data from various sources
b. Ensure data accuracy and completeness
c. Establish and maintain data management processes

3.2.2. The contractor must be able to provide data analysis and insights activities:
a. Analyze budget data to identify trends and anomalies
b. Provide insights and recommendations for action
c. Develop predictive models to inform decision-making

3.2.3 The contractor must be able to provide reporting and visualizations
a. Generate regular reports and visualizations to communicate data findings
b. Customize reports and visualizations on the use-cases identified for the dashboard
c. Establish and maintain report and visualization processes

3.2.4 The contractor must be able to have a Stakeholder management
a. Engage with stakeholders to understand their data needs
b. Communicate data findings to stakeholders in a clear and concise manner
c. Respond to stakeholder inquiries and requests in a timely manner

3.2.5 The contractor must provide the following data strategy services, which include but not limited to:

3.2.5.1 Data Engineering Services, which includes, but not limited to:

a. Requirements Gathering on data processing and platform requirements (e.g. data sizing, frequency, types of ingestion and transformation(s));

b. Cloud Data Platform implementation;

i) Provisioning, installation and configuration of the cloud & data platforms with the requirements outlined in the Terms of Payment and Deliverables
ii) Implementation and configuration of security and access policies for the cloud data platform

c. Data discovery, scanning and profiling;

i) Perform data quality profiling to measure different data quality metrics

ii) Provide recommendations for remediating data quality issues found

iii) Defining custom data quality rules and policies

iv) Perform regular checks / scans to check data quality

d. Data Preparation;

e. Data Management;
   i) Design and implementation of the data management framework
   ii) Data Modeling
   iii) Create/develop and jobs for data ingestion, transformation and cleansing, and application of data quality principles.
   iv) Identification of data quality issues
   v) Recommendation of rectification of data quality issues
   vi) Implementation of data quality controls within the cloud data platform (e.g. data quality checks and alerts within the ETL jobs)

f. Data Analytics Visualization service implementation and configuration;

g. Provision of training or knowledge transfer to identified DBM employees in developing data pipelines, perform operations, maintenance, and monitoring of the cloud data platform;

h. The contractor must provide thirty (30) PowerBI Pro Licenses for one (1) year. Said licenses must be provided to DBM fifteen (15) days from receipt of the Notice to Proceed. Moreover, the documentation related to this project must be transferred to the DBM on or before December 15, 2023, provided that all configurations in the platform (non-production and production environments) must be completed earlier than September 30, 2023.

i. The contractor must provide subscriptions and usage for the data exchange platform specifically with support and maintenance subject to renewal.

3.3 Qualifications of the Firm

    3.3.5 The contractor must have Data Scientists with background/capabilities on:

        a. Behavioral Science
        b. Machine Learning
        c. Natural Language Processing
        d. Computer Vision
        e. Reinforcement Learning
        f. Deep Learning

    3.3.6 The contractor must have more than two (2) years of experience designing behavioral interventions, conducting investigations on consumer and employee behaviors, and informing data science teams on relevant variables for modeling.

    3.3.7 The contractor should have a member(s) with PhD in management and/or psychological sciences, training in scientific methodology and program evaluation, and at least five (5) years of experience in primary data collection (e.g., surveys, interviews, FGDs, and/or observational studies).

    3.3.8 The contractor must have pre-developed, reusable, configurable, flexible, and scalable libraries to accelerate data pipelines development

    3.3.9 The contractor must have extensive experience in using the DataBricks and Data LakeHouse platform on financial data at least three (3) months of experience in using the data discovery tool. And at least one (1) year of experience in implementation/operation / usage of the data exchange platform e.g. Dawex, Harbr etc.

    3.3.10 The contractor must have implemented a similar managed services project for at least 1 and a half year to a financial industry customer, wherein the contractor has provided various services such as data architecture review, data engineering, access to a secure data, exchange / management platform, developed predictive analytics and machine learning models.

    3.3.11 The contractor must provide a Proof of Concept.

    3.3.12 The contractor must have the Project Team (PT) composition/ resource allocation and qualifications in accordance with Annex A.1.

To support the PT qualifications of each member, the following shall be submitted during post-qualification:

      a) Curriculum Vitae summarizing the credentials and indicating experience and completed projects to support the qualification requirements.

      b) List of trainings/seminars attended with proof (e.g. certificate of attendance or equivalent) that are relevant to their functions.

The PT members will be allowed to perform online implementation except for activities that requires onsite presence such as but not limited to setup of preproduction environment, testing, post implementation dedicated onsite support.

In case of replacement of team member, the contractor shall propose the new member at least ten (10) calendar days before such replacement, subject to DBM-OCIO approval. The proposed member shall have the same or has better credentials than the proposed to be replaced. There shall be an overlap of at least fifteen (15) working days between the incoming and outgoing persons for proper turn over.

3.4 Technical Support

3.4.1 The contractor must provide technical assistance, a contact person would be designated and support through email/online/phone until March 31, 2024 with complete end-to-end customer management such as value-added services, as part of the warranty. The contact person may be required to visit DBM if deemed necessary;

3.4.2 The contractor must have technical staff assigned to support DBM shall coordinate with the ICTSS in the implementation of this project;

3.4.3 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;

3.4.4 The contractor warrants that it shall strictly conform to the terms and conditions of this Detailed Technical Specifications;

3.4.5 The contractor warrants that the technical staff assigned are qualified to provide the deliverables required to the satisfaction of the DBM;

4.0 CONFIDENTIALITY OF DATA

4.1 All technical staff assigned by the contractor shall be required to sign a Non-Disclosure Agreement (NDA);

4.2 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 is strictly confidential;

4.3 The contractor agrees to hold all the foregoing information in strict confidence;

4.4 The contractor further agrees not to reproduce or disclose any confidential

information to third parties without the prior written approval of the DBM;

5.0 TERMS OF PAYMENT, DELIVERABLES AND LIQUIDATED DAMAGES

5.1 The deliverables and terms of payment is subject to the conditions as specified in the Milestones/Deliverables table.

% of Completion	Milestones / Deliverables	% of Payment
	Mobilization Fee *(automatic payment after the contract signing and no prior requisites must be satisfied by the contractor in order to receive the first payment for rendering consulting services)*	15%
40%	● Platform Set-up (Non-Production Environment) – Provisioning, installation and configuration of the cloud data platform ● Requirements Gathering ● Dashboard 1 (For the 8-point Socioeconomic Agenda source out from the Online Submission of Budget Proposal and the Budget Preparation Management Systems) ● Platform Set-up (Production Environment) – Provisioning, installation and configuration of the cloud data platform ● Data Exchange / Collaboration (Phase I) Dashboard 2 (Inflation for Food and Non-Food)	40%
30%	● Data Exchange / Collaboration (Phase II) ● Dashboard 3 (Aggregate allotment per Departments, Agencies and Operating Units based on the National Expenditure Programs NEP-BPMS & BESF) ● Trainings (Phase I) *(Includes PowerBI Platform process development and usage, Cloud data platform operations and maintenance, monitoring, and Usage of the data catalog)*	25%
30%	● Dashboard 4 (*GOCCs*) ● Trainings (Phase II) How to use analytics and data science tools to predict & forecast AI/ Machine Learning Natural Language Processing	20%

| | Computer Vision
Reinforcement Learning
Deep Learning
Data Engineering development
● Documentation on the Data Quality Checks

● Documentation on the Exploratory Data Analysis (recommended predictive analytics use cases supported by experiments / data exploration) | |

5.2   The following requirements must be satisfied for processing of the payment milestones:

- Signed Certificate of Acceptance issued by the Undersecretary for Information and Communications Technology (ICT) Group; and

- Sales Invoice/Billing Statement

5.3   If the contractor fails to deliver any or all of the goods and/or to perform the services within the period specified in this contract, the end-user shall, without prejudice to its other remedies under this contract and under the applicable law, deduct from the contract price as liquidated damages, the applicable rate of one-tenth (1/10) of one percent (1%) of the cost of an unperformed portion of every day of delay. The maximum deduction shall be ten percent (10%) of the amount of the contract. Once the maximum is reached, the procuring entity reserves the right to rescind the contract, without prejudice to other courses of action and remedies open to it.

**TPF 11. List of all Ongoing Government and Private Contracts Including
Contracts Awarded but not yet Started
(Revised)**

Business Name: _____

Business Address:_____

Name of Client/ Contact Person/ Contact Number/ Email Address	Date of the Contract	Kinds of Consulting Services	Value of Outstanding Contracts	Date of Delivery
Government				
Private				

Submitted by   : _____
                      (Printed Name and Signature)
Designation   : _____

Date   : _____

Instructions:

   i.   State all ongoing contracts including those awarded but not yet started (government and private contracts which may be similar or not similar to the project being bidded) prior to August 29, 2023.
   ii. If there is no ongoing contract including awarded but not yet started as of the aforementioned period, state none or equivalent term.
   iii. Please note that item 6.4 of the Government Procurement Policy Board (GPPB) Circular No. 04-2020 dated September 16, 2020 states that, "[t]he PEs shall check **compliance of the submitted forms with the mandatory provisions stated above. Non-submission of the Required Forms or non-inclusion of the mandatory provisions in any of the Required Forms shall be a ground for disqualification**."

Moreover, GPPB Non-Policy Matter Opinion No. 041-2014 dated October 9, 2014 partially states that "**even contracts that include non-disclosure agreements or confidentiality clauses are required to be disclosed**. It is likewise good to clarify that the requirement refers to a "statement" to be made by the bidder relative to all its ongoing and private contracts, and not the actual submission of the physical contracts."

Annex A.2
(Revised)
List of Deliverables

Tranche	Deliverables	Remarks
1st Tranche	• Documentation on the Platform Set-up (Non-Production Environment) – Provisioning, installation and configuration of the cloud data platform • Documentation on the Requirements Gathered • Presentation of Dashboard 1 (For the 8-point Socioeconomic Agenda source out from the Online Submission of Budget Proposal and the Budget Preparation Management Systems) • Platform Set-up (Production Environment) – Provisioning, installation and configuration of the cloud data platform • Data Exchange / Collaboration (Phase I) Report • Presentation Dashboard 2 (Inflation for Food and Non-Food)	For documentation and reports, one (1) hard copies and a soft copy in PDF format must be submitted by the contractor via email to the DBM OCIO. Presentation of Dashboards to stakeholders Dashboards for this tranche must be completed on or before October 1, 2023
2nd Tranche	• Data Exchange / Collaboration (Phase II) Report • Presentation Dashboard 3 (Aggregate allotment per Departments, Agencies and Operating Units based on the National Expenditure Programs NEP-BPMS & BESF) • Trainings / Knowledge Transfer (Phase I) (*Includes PowerBI Platform process development and usage, Cloud ata platform operations and maintenance, monitoring, and Usage of the data catalog*)	For documentation and reports, one (1) hard copies and a soft copy in PDF format must be submitted by the contractor via email to the DBM OCIO. Presentation of Dashboard to stakeholders Dashboard for this tranche must be completed on or before November 1, 2023
3rd Tranche	• Dashboard 4 (*GOCCs*) • Trainings / Knowledge Transfer (Phase II) • Documentation on the Data Quality Checks • Documentation on the Exploratory Data Analysis (recommended predictive analytics use cases supported by experiments / data exploration)	For documentation and reports, one (1) hard copies and a soft copy in PDF format must be submitted by the contractor via email to the DBM OCIO.

| | | | Presentation of Dashboard to stakeholders

Dashboard for this tranche must be completed on or before December 15, 2023 |
| --- | --- | --- | --- |