MINISTRY OF DIGITAL ECONOMY AND ENTREPRENEURSHIP

(MoDEE)

Request for Proposal

Government Big Data Governance and Implementation

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PROPOSAL DEADLINE: 1/4/2024
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List of abbreviations:

Abbreviations	Definition
ETL	Extract, Transform and Load
CDC	Change Data Capture
GPC	Government Private Cloud
SSD	Solid State Drive
HDD	Hard Disk Drive
API	Application Programming Interface
OLAP	Online Analytical Processing
OLTP	Online Transaction Processing
SQL	Structured Query Language
DCMR	Directorate Civil Military and Retirement
DEF	Development and Employment Fund
VTC	Vocational Training Corporation
DLS	Department of Land and Survey
ISTD	Income and Sales Tax Department
MOE	Ministry Of Education
MOHE	Ministry Of Higher Education and Scientific Research
MIT	Ministry of Industry Trade and Supply
CCD	Companies Control Department
JC	Jordan Customs
PSD	Public Security Directorate
SSC	Social Security Corporation
MOL	Ministry Of Labor
NAF	National Aid Fund
CSB	Civil Service Bureau
MOSD	Ministry of Human Resources and Social Development
ZF	Zakat Fund
SJD	Supreme Judge Department
HIA	Health Insurance Administration
HUDC	Housing and Urban Development Corporation
GAM	Municipality Of Greater Amman
ACC	Agricultural Credit Corporation
MOJ	Ministry of Justice
HCD	Higher Council for the Rights of Persons with Disabilities
OFDC	Orphans Fund Development Corporation
LTRC	Land Transport Regulatory Commission
CSPD	civil status and passports department
DVLD	Driver and Vehicle Licensing Department

1. RFP Organization:

This RFP document provides the information needed to enable bidders to submit written proposals for the sought solution. The organization of the RFP is as follows:

Section 1: RFP Organization

Section 2: Overview
This section outlines the RFP's purpose and the related projects.

Section 3: Scope of work and deliverables
This section describes current situation of the BaaS, defines the requirements, scope of work, and deliverables for the required services presented in this RFP.

Section 4: Administrative Procedures and Requirements
This section describes the administrative rules and procedures that guide the proposal and its processes.

Section 5: Annexes

2. Overview:

2.1 Project Overview

The Ministry of Digital Economy and Entrepreneurship recognizes the transformative power of data in driving the future of Jordan. As the digital frontier expands, so does our ambition to harness its potential, ensuring that Jordan remains a beacon of innovation and progress in the region. The objective of this RFP is to collaborate with a qualified bidder (as described in section 4.1) who can design and implement an advanced Big Data platform, in addition to providing expert data management consultancy. This initiative aims to consolidate and leverage the vast data repositories of the Government —20 TB useable—into actionable insights, enhancing our understanding of Jordanians: be it nationals, residents, or the business landscape.

By procuring a solution that emphasizes 360-degree views, integrated dashboards, and a foresight for future technological needs, we hope to position the MODEE at the forefront of data-driven governance. We invite esteemed bidders to join us in this transformative journey, shaping the digital narrative of our great nation.

This RFP outlines a comprehensive request to develop and deploy a state-of-the-art Big Data Platform for the Ministry of Digital Economy and Entrepreneurship. The core components encompass:

- **Software Architecture**: Specifying and integrating all software components forming the platform's core.
- **Hardware Commissioning**: Configuring hardware for optimal performance and compliance with MODEE standards.
- **Systems Integration**: Establishing robust data ingestion for flexible data flow into the platform.
- **360-Degree Views**: Creating interconnected profiles for Nationals, Residents, and Companies to support data initiatives comprehensively.
- **Interactive Dashboards**: Designing user-friendly dashboards for actionable insights.

Data Management: Assessing and improving data management practices while implementing a compliant framework meeting MODEE's requirements and global standards.

This RFP embodies the MoDEE's ambition to harness data's transformative potential, and we anticipate a solution that meets these criteria while emphasizing scalability, security, and future-readiness.

Responses to this Request for Proposal (RFP) must conform to the procedures, format and content requirements outlined in this document in Section 4 of this RFP. Deviation may be grounds for disqualification.

2.2 Goals and Functionality

The main goal of this RFP is to revolutionize the way MoDEE and Jordanian government entities operate, collaborate, and deliver services. By effectively integrating and analyzing data from various sources, we aim to achieve the following objectives:

- Build Data Governance model, including but not limited to:
  - Enhance the security and privacy of personal and sensitive data to comply with relevant regulations and protect stakeholders' interests.
  - Establish standardized data management practices to ensure data integrity, accuracy, and reliability.
  - Implement controls and checks to achieve compliance with industry-specific regulations and data protection laws.
  - Build a culture of data stewardship and responsibility across MoDEE and Jordanian government entities.
  - Study, assess and propose the best global standards of data governance.
  - Implement the proposed standard after obtaining MoDEE's approval.
    1.
- Drive data-driven innovation by identifying technological trends and opportunities.
- Enhance policy formulation through data-backed insights into societal and economic trends.
- Provide personalized services by understanding different sectors' preferences and needs.
- Accelerate research and development by leveraging data for technological advancements.

Winning bidder will be responsible of the whole project implementation, management and delivery. In addition to providing 12 months of support after the preliminary acceptance.

2.3 Features and Requirements

Below is the minimum acceptable solution features. Bidders must comply with the below features in their proposals with ability to provide proofs for the features required by the solution to support.
Note: not providing a compliance sheet with the below requirements will lead to disqualification

Big Data Solution Compliance Sheet			
Criterion	Functionality	Comply (Y/N)	Comments
Software Capability	Fully Big Data Platform that can provide substantial capabilities across all phases of the data lifecycle including data ingestion, data engineering, data warehousing, operational database, and machine learning.		
	End-to-End, Modular, and unified Enterprise Data Analytics Platform that is capable of meeting MoDEE requirements in this phase and later phases		
	The platform must be deployed on a "Distributed Cluster" where each node should have a dedicated function such as nodes to orchestrate and control the platform operations, nodes for cluster administration and monitoring, and nodes for data storage and data processing.		
	The platform must combine both data storage and computing capabilities within the same set of hosts that comprise a Cluster with an option to de-couple them if it is required by MoDEE.		
	Implement tracking mechanisms to monitor data flow, providing detailed compliance descriptions for continuous adherence to data security, privacy regulations, and government standards.		
Ability to use multiple data sources	The solution provides tools to ingest data from multiple data sources.		
Data Ingestion	• The platform able to do the following: • Automatically detect and address inconsistencies, missing values, and duplicates for high-quality data analytics. • Ensure timely and efficient integration of large historical data snapshots into the system. • Anticipate and facilitate the addition of new data sources to maintain an agile and extensible architecture.		

	• Allow for flexible creation, management, and execution of ETL workflows, employing optimized connectors for high-speed data ingestion into the Big Data platform. • Effectively manage extensive batches of accumulated historical snapshots for prompt integration into the system.		
Data sharing	The platform allows for sharing of data in place (capability to make it as simple as possible to share data between entities).		
General purpose data processing engine	• The platform or solution should possess a data processing engine designed for large-scale data processing and analytics, accommodating preferred programming languages such as Java, Python, and Scala for creating data processing applications. • Extension of the in-memory processing engine to handle fault-tolerant data stream processing, executing complex algorithms on continuous event data streams. • Integration of the in-memory processing engine within the resource manager for efficient cluster resource management across various data processing applications. • Data processing plan involving parallel processing techniques and optimization strategies. • Incorporation of a SQL interface within the processing engine, enabling direct querying of structured and semi-structured data from diverse sources in the Data Storage Layer. • Platform supporting various access paths and processing engines for high-speed data processing. • Support machine learning libraries as a user-friendly frontend for Python and R, supporting large-scale analytics and machine learning model execution within the platform. • Planning the data processing infrastructure, parallel processing techniques, and optimization. • Integration of a web-based notebook for interactive data exploration, visualization, and collaboration across multiple programming languages/interfaces (Python, Scala, Hive). Seamless code execution and result visualization linked with the in-memory processing engine within the browser-based notebook.		

Multiple storage options	The platform supports multiple data storage options. It is a must to support at least Columnar Storage, Distributed File System, NoSQL Key-Value DB, and Object Storage.		
Multi-purpose SQL Engine(s)	The platform must include multi-purpose SQL Engine(s) to enable Logical, SQL-based data warehouse on top of the Data Lake with adequate SQL query performance, security, and auditing capabilities. As well as a low-latency SQL Query Engine capable of reading data from Columnar Store, Object Store and the NoSQL DB. This engine must be capable of distributing queries among the Data Lake Cluster nodes and these nodes then act as workers, executing parallel query fragments.		
Interactive query editor	The platform must include a web-based interactive query editor that enables data analysts to interact with the SQL query engine(s) using SQL commands. This editor should enable data analysts to create data models, clean data to prepare it for analysis, and to build and test SQL scripts for applications.		
Administration and Manageability			
System Administration	The platform must provide the ability to administer, manage, and provision users, environments, and services across on premise clusters through a single user interface.		
The Central management tool	The central management tool must give the cluster administrator(s) the ability to get a cluster-wide, real-time view of cluster nodes / hosts as well as running data storage and compute (data processing) components.		
	The central management tool must provide a single, central console where the cluster Admin can make configuration changes across the cluster and incorporates a full range of reporting and diagnostic tools to help optimizing performance and utilization.		
	The central management tool must support searching for services, roles, hosts, configuration properties, and commands by entering a partial string and a drop-down should display a list with entities that match entered string.		
Monitoring and alerting	The platform must provide monitoring functionality that shows the overall CPU, IO, memory consumption and other important metrics for all nodes, queries in flight. Query access plans, both generated and actual performance, time, CPU time, rows passed etc.

Also, the platform must provide an alerting mechanism for show the user what kind of issues the cluster has right now with the degree of importance. | | |

Capabilities for Cluster Admin	View the status and other details of a platform component instance or the role instances associated with the component.		
	Make configuration changes to a platform component instance, a role, or a specific role instance.		
	Add and delete a platform component or role		
	Stop, start, or restart a platform component or role		
	View the commands that have been run for a platform component or a role		
	View an audit event history		
	Deploy and download client configurations		
	Decommission and recommission role instances		
	Create reports about the platform components usage and browse data storage files and manage quotas for the data storage directories.		
	Display aggregated utilization information for the platform components		
	Manage both dynamic and static allocation of cluster resources according to the nature of each platform component and whether it uses static or dynamic resource allocation		
	Display a list of the managed hosts in the cluster with the ability to drill down to the configuration page of each host so that the cluster admin can configure hosts and specify overrides for globally-configured properties for one or more hosts.		
	Display the roles deployed on each host.		
	Create and manage Host Templates, which define sets of role groups that can be used to easily expand a cluster.		
	Displays the status of all data disks in the cluster.		
	View all the processes running on a host		
	Review logs, events, and alerts to diagnose problems.		
	Search for and displaying events and alerts that have occurred.		
	Search logs by platform component, role, host, and search phrase as well as log level (severity).		
	Query and filter audit events across clusters, including logins, across clusters.		
	Query for metrics of interest, display them as charts, and display personalized chart dashboards.		
	Manage data replication schedules and data storage snapshot policies.		
Availability			
HA — Cluster	The platform must support high availability within the cluster. The services must be still working if one node or more failed.		
DMSA Features			

Dimensional modelling	The platform must support dimensional modelling.		
Dimensional views	The platform must support multidimensional views		
Dimensional tables	The platform must support multidimensional tables		
Materialized views	The platform must support materialized views		
Massively distributed query execution	The platform must distribute a query to run on multiple nodes within the cluster at the same time to increase performance.		
Data partitioning	The platform must support special types of partitioning specifically for data lake performance.		
Integrated metadata management tool	The platform must offer integrated metadata management tool. For example, to manage metadata classification, lineage, and metadata search.		
Machine Learning & Data Science	The Platform should support a secure, self-service Enterprise Data Science component that lets data scientists manage their own analytics pipelines, thus accelerating machine learning projects from exploration to production. It must include the following capabilities as a minimum: o Allows data scientists to bring their existing skills and tools, such as R, Python, and Scala, to securely run computations on data in the Data Lake cluster.		
	o Enables data science teams to use their preferred data science packages to run experiments with on-demand access to compute resources.		
	o High Availability by design in terms of distributed its services across 2 or more gateway nodes in the Data Lake Cluster.		
	o Machine Learning Models should be trained, deployed, and managed centrally for increased agility and compliance.		
	o Deploy automated pipelines of analytics workloads		
	o Deploy models as batch jobs or as REST APIs to serve predictions		
	o Interactive user sessions with Python, R, and Scala through flexible and extensible engines.		
	o Project workspaces powered by containers for control over environment configuration. Users should be able to install new packages or run command-line scripts directly from the built-in terminal.		
	o Sharing, publishing, and collaboration of projects and results.		

	o Automate analytics workloads with a lightweight job and pipeline scheduling system that supports real-time monitoring, job history, and email alerts.		
	o Use batch jobs to train and compare versioned, reproducible models.		
	o Create versioned snapshots of model code, dependencies, and any configuration parameters required to train the model.		
	o Build and execute each training run in an isolated container.		
	o Track model metrics, performance, and model artifacts as required.		
	o Data scientists can select a specific Python or R function within a project file to be deployed as a model.		
	o Build an immutable executable container with the trained model and serving code.		
	o Deploy the model as a REST API along with a specified number of replicas, automatically load balanced.		
	o Save the built model container, along with metadata such as who built or deployed it.		
	o Allow data scientists to test and share the model		
	o All user sessions, experiments and jobs must be logged for auditing		
	Can expand created projects to deep learning frameworks.		
Integrity			
Data consistency and deduplication	The platform must allow all workloads, encompassing the entire data lifecycle, to run on top of a single copy of data centralized in the Data Lake without having to move, copy, export, or duplicate the data in any form or manner.		
ACID semantics of operations	The platform must support ACID (Atomicity, Consistency, Isolation, and Durability) semantics through Platform's SQL engine(s).		
Performance			
Query optimization (cost statistics)	The platform must automatically collect statistics. The statistics must be incrementally updated or based on a sample instead of the entire data set.		
Clustering limitations	Specify the number of servers per cluster • Describe limitations		
Cluster volume limitations	Specify maximum data storage volume in scale-out architecture. • Describe any volume limitations in comments.		
Multiple applications in the same cluster	The Platform support building a cluster that include multiple applications to run across the cluster with appropriate management for resource isolation between these applications.		

Multiple workload support at the same cluster	The Platform allow for multiple data stores to be supported across the cluster.		
Storage control for data placement	The Platform allow placement of data on specific storage locations.		
Dynamic workload repartitioning	Support dynamic parallelization/repartitioning of queries in flight		
Pipeline parallelism	The Platform distribute and parallelize a single query to run on multiple cluster nodes at the same time to increase performance.		
Column store support	The Platform should support a native column store option		
Compression technology (column\ block)	The platform offers the option of utilizing column or block-level compression for efficient data storage and management.		
Data Access, Analytics Capabilities, and Extensibility			
Multi model	The platform must support multiple data or object models natively. For example, Distributed File System, Key-Value, NoSQL, Object Store. Please specify what native models are included and if they are an extra cost.		
Native support for media and other non-structured data files	The platform must natively allow for other types of data (such as audio, video, multimedia and biometric data) stored in its core storage to be hosted directly and integrated with other tabular / structured data within the data lake.		
Native support for analytics file formats	Structured, semi-structured and unstructured format without requiring additional plugins or third-party tools.		
User-defined functions	User-defined functions can be created. Describe any limitations, available programming languages, or advanced features (such as machine learning) in comments. Also, clarify whether UDFs can be executed in queries.		
Scalability			
Scale-out architecture	The platform must support a scale-out (clustered) architecture. Describe in comments the necessary clustering software supported in each operating environment.		
Data partitioning/ sharding	Utilized for expanding large data lake setups by employing standard partitions, like date ranges. Clarify if this feature incurs additional charges. Also, detail any constraints in the comments and specify supported partitioning or sharding schemes. Top of Form		

Fast loader	This is an option for fast loading of data into the database. Describe in the comments any benchmark data available and attach benchmark results as an addendum to the RFP.		
Limits on data lake size	Regarding the size of the overall data lake volume, detail any restrictions or limitations in the comments, specifying any defined size limits or constraints that apply. Top of Form		
Manageability	The normally supplied management tools support very large data lake configurations; however, use comments to explain their limitations. Top of Form		
Separation of storage and compute (on-premises)	The bidder determines and manages storage and compute resources for on-premises deployments independently, including the process and timeline for adjusting them. Top of Form		
Governance			
Data Governance	The platform must support transparent data encryption for data in motion, through query interfaces, and while at rest in the Data Lake, with automatic enablement across all cluster nodes.		
	Auditing at the object level, including tables, rows, and columns, with user and command control.		
	The platform must support a form of user authentication. In comments, describe the security on authentication.		
	The platform must support role-based access control to data elements.		
	The platform must have masking or tokenization of sensitive or personally identifying information.		
	The platform must support the ability to prevent Admins from viewing or changing data in the Data Lake.		
	Security measures are implemented at the Data Lake object level, including tables and other components.		
	The platform must support row-level security.		
	The platform must support column-level security.		
	Users can be grouped according to functional departments or other organizational structures to streamline security maintenance.		

	The security system enables fine-grained SQL-based permissions on tables and columns, granting users control over specific SQL commands based on their permissions.		
	The security framework supports both allow and deny conditions for access control.		
	The platform must provide the automatic capture of metadata and display of lineage information including data sources and transformations.		
	The platform must allow end users to tag data assets and apply granular security policies on the tag.		
	Tagged assets, such as columns labeled with 'pii' (personally identifiable information), are automatically propagated when moved to different databases or tables using SQL queries within the Platform.		
	The platform must provide enterprise-grade security and governance capabilities with the following minimum features: - Manages access control through a user interface that ensures consistent policy administration. - Define security policies at the Data Lake, table, column, and file levels, and can administer permissions for groups or individual users. - Rules based on dynamic conditions such as time or geolocation can also be added to security policies. - The ability to organize resources of platform components into multiple security zones. - Provides a centralized framework for collecting access audit history and reporting data, including filtering on various parameters. - Extend the reach of platform components to users outside of the implemented cluster without reducing the cluster security. - Metadata management and governance services that enable cluster administrator to manage all cluster assets. - Search and Proscriptive Lineage to facilitate pre-defined and ad hoc exploration of data and metadata, while maintaining a history of data sources and how specific data was generated. - Flexible modelling of both business and operational data - Data Classification – to help understanding the nature of the data within Hadoop and classify it based on external and internal sources. - Provides the ability to create and maintain business ontologies to label data assets.		

	• Provides a web-based user interface to search metadata entities using Metadata Classifications and Glossary terms to narrow the search results.		

Data Reporting and Visualization				
Dashboard creation and design	• Create user-friendly dashboards consolidating data from 40 sources. • Design interactive operational and executive dashboards. • Implement features for real-time or near real-time analytics. • Design operational and executive dashboards for real-time analytics.			
Visualization and Analysis Capabilities:	• Enable exploration of emerging insights for stakeholders (internal and external). • Visualize trends and patterns from massive data volumes. • Implement high-speed data processing and real-time SQL queries. • Develop strategies for dynamic real-time visualization. • Incorporate interactive drill-down capabilities for in-depth data investigation.			
Reporting Mechanisms:	• Establish automated reporting mechanisms summarizing key insights for delivery through specified channels, such as email.			
Number of current users per their function	Function	QTY		
	Super User (Develop & Admin)	2-5		
	Business Analyst (Customize Dashboards & Applying Self-Visualization)	10-15		
	Executive User (View The Dashboards)	50		
Training	• Design and implement a training program for 12 MODEE staff members. The training will include structured sessions to teach operational and management skills for the new systems **for each component and tools**. (online training not acceptable) • Winning bidder must be responsible of the training arrangements and costs including; Venue and Training materials.			

3. Scope of Work and Deliverables:

This section outlines technical and functional needs for a scalable, secure, and insightful system capable of aggregating, processing, and extracting actionable insights from vast and varied data sources. We invite proposals to implement advanced Big Data technologies compliant with security measures, data accessibility, and promoting interoperability across governmental entities to achieve our goal of utilizing data for efficient governance and citizen-centric solutions.

Important Notes:

- There are certain activities to be performed and deliverables to be provided by winning bidder during execution of the project. More detailed information on each of them is given in the next paragraphs.
- The cost of all requirements or activities should be included in the fixed lump sum price submitted by the winning bidder.
- Final deliverables submitted by the winning bidder should be attached to original official letters properly bounded, stamped, and signed by the winning bidder as shall be defined and approved by MoDEE.
- Any needed licenses should be provided by the winning bidder, and should be included in the total lump sum price.
- The duration time for this project will be 365 calendar days starting from commencement date, in addition to 12 months of support and maintenance services starting from the preliminary acceptance.
- Bidder must commit with the provided support prices for a period of three years after the final acceptance of the project.
- The winning bidder should handle all project management activities needed for the successful implementation and delivery of the data governance solution.
- During the support period, winning bidder must commit to provide the needed engineers to solve the support case.

Important Definitions:

- Preliminary Acceptance: the official acceptance by MODEE after the winning bidder finishes and delivers all work defined in the scope of work and before the start of maintenance.
- Final Acceptance: the official acceptance by MODEE after the winning bidder finishes and delivers all work in the contract and after the maintenance period.

3.1 Use Case: Leveraging Big Data Integration for Enhanced Governance and Citizen Services

Scenario:
MoDEE seeks to optimize resource allocation, enhance citizen services, and foster data-driven governance by integrating big data from various government departments and entities. This initiative encompasses data from different entities.
Winning bidder is required to implement the above use case taking into consideration to perform rigorous data governance to ensures compliance and protects sensitive individual and organizational information.

Winning Bidder Activities:

- Enhanced Citizen Profiles:

Utilize big data technology to compile individual data from diverse sources into unified profiles. This includes demographic details, educational and employment records, and social security contributions, facilitating views of citizens' backgrounds and needs.
- Company Insights:

Aggregate company-related data from entities to create detailed organizational profiles. This encompasses registration details, financial records, affiliations and operational metrics, offering insights into businesses operating within Jordan.
- Resident Data Integration:

Integrate resident-related data from sources, encapsulating residency status, affiliations, historical records, and other pertinent details. This integrated view assists in understanding the diverse resident landscape and their associated needs.
- Data Governance and Privacy Measures:

Establish robust data governance frameworks due to the sensitive nature of consolidated profiles. Implement stringent data privacy measures and granular access controls to ensure only authorized personnel can access specific information, safeguarding individual and organizational privacy.
- API Development:

Develop APIs within the required big data ecosystem, to enable and ease data exchange between entities in a proper smooth and secure way. In addition, empower MoDEE resources to build and update any needed API within the system. These APIs facilitate controlled access to integrated data for various government departments, enabling streamlined data utilization and analysis.

Technical Proposal Requirements:
1. Commit for the deliverables requirements

Deliverables:
1. Holistic insights: 360 view for each category: citizen, business and resident.
2. Build minimum 15 dashboard and 15 reports for each view.
3. Documentation, including design documents, architecture diagrams, user manuals, and other relevant materials for MODEE. These documents will cover the use case and provide detailed guidance for implementation and operation.

3.2 Required Solution Infrastructure and Platform Delivery

Winning Bidder Activities:
1. Must provide the solution hosted on the Government Private Cloud (GPC) and fully integrated with Nutanix AHV or VMware.
2. Must provide the solution design architecture that includes the required virtual machines (VMs), databases (DBs), or any other related services (GPC and infrastructure services are listed in the below table*).
3. Must describe each component's functionality and role in the architecture, knowing that GPC provides 3-tiers architecture for management and security purposes (Web, App, Data).
4. Must provide the required sizing (computing specifications) that will be utilized for VMs and DBs.
5. Must provide the solution logical architecture illustrating each of the solution components functionality, integration with other components

* GPC provides the bidders with different services as in the below table.

Government Private Cloud (GPC) Services		
1	Virtual Machines	
	Option 1	Windows Server 2022\2019 Enterprise Edition (Licensed)
	Option 2	Any other OS is the bidder responsibility to provide, install, configure, and license it. Any required licenses must be included in the financial proposal as optional item.
2	Containers Management	
	Option 1	Utilizing VMs to host the containers.
3	Databases	
	Option 1	The bidder must proposed the database technology and his responsibility to deploy configure and management
4	Other services provided by GPC	
	1.	Load Balancer (LB), the winning bidder must propose the needed throughput
	2.	web application Firewall (WAF)
	3.	Micro segmentation
	4.	Object storage
	5.	Backup as a Service; the winning bidder must provide the required backup policy
	6.	antivirus
	7.	SSL certificate
	8.	Government Email services
	9.	SMS Gateway integration

Technical proposal requirements:
The bidder is required to provide the following information in the technical proposal in relation to the required infrastructure:
1. Proposed options for hosting on GPC
2. Logical infrastructure architecture showing all solution components and its description, functionality and integration with other components.
3. Proposed GPC services that will fulfill project's needs and requirements
4. Required computing resources to host the solution

Deliverables:
1. Logical infrastructure architecture
2. Computing resources required to host the solution (sizing)
3. Description and functionality for each infrastructure component
4. All required licenses

3.3 Data Ingestion

Data integration and processing are critical components of the proposed solution, enabling the MODEE to make effective and timely decisions from diverse and complex datasets. The solution should ensure efficient ETL/ELT workflows, flexible integrations, and accommodate a future shift towards streaming data.

Winning Bidder activities:
The winning bidder is required to perform the activities mentioned below, noting that any additional related activities needed for the proper completion of the project and its cost should be included in the fixed lump sum price submitted by the bidder:
- Identify diverse data sources and formats at government entities, to combine and enhance replicated data for insights, and efficiently integrate large historical data snapshots into the system.
- Implement Change Data Capture (CDC) –if applicable in data source- techniques using log-based or trigger-based methods for real-time or near-real-time synchronization, integrating them into existing ETL pipelines for incremental updates.
- Develop robust data integration pipelines encompassing ETL/ELT processes, including tools for extraction, standardization, transformation, and specialized workflows tailored for processing time-series data, event logs, sequences, ensuring effective capture of sequential dimensions, and specific data types.
- Create flexible data aggregation ensuring adherence to data security and privacy protocols.
- Implement real-time data streaming, batch ingestion mechanisms, and APIs while maintaining compliance with government standards and data security.

Technical Proposal Requirements:
- Describe real-time and batch data ingestion mechanisms with performance specifications, anticipate and facilitate future additions of new data sources, and integrate an intuitive graphical interface for designing and executing data ingestion tasks.
- Describe the approach to designing an intuitive graphical interface for data ingestion tasks without the necessity of actual implementation steps.
- Describe the methodology for integrating diverse data sources, ensuring compliance with industry standards and regulatory requirements.
- Describe the plans for anticipating and facilitating future additions of new data sources and system enhancements, emphasizing scalability without providing implementation details.
- Describe proposed tool(s), and tool specification to meet the requirements.
- Tool compatibility within the proposed platform and solution.
- Describe how to manage the tool (Administration, upgrade, support and other related features).
- Describe tool processing technique (Serial or parallel).

Deliverables:
Outlined here are the tangible outputs, reports, plans, or services that bidders are expected to include in their proposals for the Government Big Data Governance and Implementation project:

- Data ingestion tool(s) cover all RFP requirements
- Documentation, including design documents, architecture diagrams, user manuals, and other relevant materials for MODEE. These documents will cover the Data Ingestion tool and provide detailed guidance for implementation and operation.
- Workflows (Data Pipelines) to processing all data sources (40)
- 40 data source integrated and implemented in the proposed solution

3.4 Data Storage

The data platform must offer diverse data storage components to meet varied data requirements. Efficiently storing, retrieving, and managing a substantial dataset of 20TB, with projected growth **(10-15% yearly)**, necessitates a sophisticated storage strategy at the core of any robust big data solution.
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Winning Bidder activities:
The winning bidder is required to perform the activities mentioned below, noting that any additional related activities needed for the proper completion of the project and its cost should be included in the fixed lump sum price submitted by the bidder:

- Identify data storage needs and formats.
- Build a robust data storage architecture for efficient management
- Create data management processes for retrieval, storage, and archival.
- Configure a fault-tolerant distributed file system for scalable data storage.
- Design robust backup and recovery strategies.
- Create horizontally scalable storage for mutable data with a flexible consistency.
- Implement mechanisms to enable large data updates without resource-intensive operations, ensuring efficient and seamless updating of extensive datasets within the system.
- Configure a key-value model non-relational database with low-latency operations, supporting diverse data structures and millisecond latency queries for mission-critical applications.
- Implement a natively integrated SQL layer for the non-relational database to ensure seamless and flexible integration of storage components within the data platform.
- Build a robust, scalable, and redundant object store for big data workloads. This object store will optimize read/write efficiency for efficient processing of OLAP workloads and support simultaneous sequential/random workloads. It will facilitate real-time analytics by enabling fast data inserts/updates without requiring complete file rewrites, ensuring immediate access to updated information through efficient scans.

Technical Proposal Requirements:
The following types of data storage must be natively embedded within the platform by design and flexible integrated with the other data processing, data access, data security and governance layers of the platform:

- Describe proposed tool(s), and tool specification to meet the requirements.
- Tool compatibility within the proposed platform and solution.

- Describe how to manage the tool (Administration, upgrade, support and other related features).Describe the distributed file system, ensuring scalability, fault tolerance, concurrent data access, and reliability across various applications.
- Outline development plans for scalable object stores, horizontally scalable storage, and efficient processing designed for OLAP workloads, with robust support for real-time analytics.
- Detail features that support data inserts, availability, updates, and a persistent non-relational database for real-time analysis, emphasizing seamless integration of key-value models.
- Elaborate on the system's capabilities regarding individual and bulk data inserts, immediate data availability, managing large data volume updates without extensive rewriting, and ensuring a persistent non-relational database that supports real-time analysis.
- Provide details on how the proposed system integrates a key-value model into the non-relational database, handles diverse data sources, supports large tables with sparse data, achieves millisecond latency data queries, and incorporates a natively embedded SQL layer for user interaction flexibility.
- Integrate efficient mechanisms to handle real-time analytics, enabling fast data inserts/updates without requiring complete file rewrites, ensuring immediate access to updated information through efficient scans.

Deliverables:
Outlined here are the tangible outputs, reports, plans, or services that bidders are expected to include in their proposals for the Government Big Data Governance and Implementation project:
- Detailed technical documentation, including design documents, architecture diagrams, user manuals, and other relevant materials to MODEE and should covering data storage architecture, types, scalability plans, efficient data retrieval mechanisms, backup strategies and recovery.
- Deliver a data storage tool(s) to cover all RFP requirements

3.5 Data Processing

The data platform should feature a foundational resource manager overseeing parallel-distributed applications within the same cluster to handle diverse data processing tasks. Additionally, the Data Processing Layer must incorporate a distributed, in-memory data processing engine. This engine should serve as a versatile framework for distributed computing, ensuring high-performance capabilities for both batch and interactive processing operations.

Winning Bidder activities:
The winning bidder is required to perform the activities mentioned below, the winning bidder should provide noting that any additional related activities needed for the proper completion of the project and its cost should be included in the fixed lump sum price submitted by the bidder:

- Deploy a distributed, high-performance in-memory data processing engine optimized for both batch and interactive processing.

- Integrate the engine within the resource manager to efficiently control cluster resources for data processing applications.
- Implement a SQL interface within the processing engine to directly query structured and semi-structured data from the Data Storage Layer.
- Implement the extension of the in-memory processing engine to handle scalable and fault-tolerant data stream processing. This entails incorporating the capability to apply complex algorithms on continuous streams of event data using high-level programming functions.
- Configure a web-based notebook to facilitate interactive data exploration, visualization, and collaborative functionalities. Ensure its compatibility with various programming languages/interfaces like Python, Scala, and Hive for versatile usage. Integrate the notebook seamlessly with the in-memory processing engine, enabling smooth code development and visualization of processing outcomes within the browser interface.
- Implement robust pattern recognition and anomaly detection mechanisms, within the solution architecture, to facilitate proactive decision-making.

Technical Proposal Requirements:
Proposed big data platform must include the following processing capabilities:

- Describe the seamless integration of the in-memory data processing engine within the resource manager to efficiently manage allocated cluster resources across diverse data processing applications.
- Detail the data processing plan involving parallel processing techniques and optimization strategies to enhance machine learning algorithms.
- Explain the integration of a SQL interface within the processing engine, enabling direct querying of structured and semi-structured data from various sources in the Data Storage Layer.
- Provide anoverview of plans for data processing infrastructure, parallel processing techniques, and optimization strategies, specifically targeting enhancements for machine learning algorithms.
- Describe the integration of a web-based notebook supporting interactive data exploration, visualization, and collaboration. Ensure compatibility with multiple programming languages/interfaces such as Python, Scala, and Hive, enhancing its usability. Describe the seamless integration of the web-based notebook with the in-memory data processing engine for code execution and result visualization within the browser. Lastly, elaborate on organizing code within paragraphs in the web-based notebook to facilitate flexible code snippet definition and execution.

Deliverables:
Outlined here are the tangible outputs, reports, plans, or services that bidders are expected to include in their proposals for the Government Big Data Governance and Implementation project:
1. In-Memory Processing Engine Implementation:
   - Deploy an in-memory processing engine optimized for batch and interactive processing, capable of handling scalable, fault-tolerant data stream processing and executing complex algorithms on continuous event data.
2. Integration Engine with Resource Manager:

- Integrate the in-memory processing engine within the resource manager to efficiently control cluster resources for data processing applications.
  3. Web-Based Notebook Development and Integration:
     - Develop a web-based notebook supporting interactive data exploration, visualization, and collaboration. Ensure compatibility with Python, Scala, and Hive while seamlessly integrating it with the in-memory processing engine for code development and visualization within the browser.
- Delivering a detailed plan outlining data processing infrastructure, parallel processing techniques, and optimization strategies for machine learning algorithms.

3.6 Data Governance

The data governance layer acts as a comprehensive framework to ensure that data assets are managed effectively, securely, and in compliance with regulatory requirements, thereby enhancing trust, reliability, and value derived from organizational data including: [Personal Data Protection Law]. And all related policies and regulations published here.

Winning Bidder activities:
The winning bidder is required to perform the activities mentioned below, the winning bidder should provide noting that any additional related activities needed for the proper completion of the project and its cost should be included in the fixed lump sum price submitted by the bidder:
Data Authentication:
- Implement an authentication protocol supporting LDAP-compliant identity services.
- Create a central gateway for REST APIs as a single access point, employing SSL encryption.
- Enable external access to the cluster via multiple channels such as the central gateway, REST API, or CLI tools.

Data Authorization and Access Control:
- Assess and align existing data governance policies, focusing on access control measures.
- Document clear policies governing data access, authorizations, and permissions.
- Implement robust access control mechanisms ensuring authorized user access based on roles and privileges.
- Authorize users across the cluster based on their identity for authorized applications and resources.
- Ensure consistent data protection from unauthorized exposure.
- Provide Role-Based Access for authorized users and groups from Active Directory.
- Leverage user and group accounts from MoDEE's Active Directory within the deployed cluster.
- Define security policies at different levels and set dynamic access rules based on conditions like time or geolocation.
- Implement tag-based services with associated access policies for comprehensive resource access control.
- Implement data protection measures such as row-level filtering and dynamic column masking.
- Create Data Governance Framework encompassing policies, procedures, and access control mechanisms.

Auditing:

- Define auditing protocols to monitor data access, modifications, and usage comprehensively.
- Evaluate and refine policies concerning the auditing of data access, modifications, and usage.
- Document clear procedures for audit trails, monitoring data changes, access attempts, and user activity.
- Implement robust auditing mechanisms aligning with regulatory standards and internal policies.
- Establish a centralized framework for collecting access audit history, enabling detailed filtering capabilities.
- Implement an Auditing service capable of enriching audit information and offering centralized reporting.
- Provide auditors with read-only access, facilitating detailed drill-downs into audit events for thorough analysis.
- Recommend suitable software solutions to mitigate data-related risks effectively.
- Detail comprehensive risk mitigation strategies encompassing various threats and vulnerabilities.
- Implement stringent Data Security measures, including encryption, access controls, and authentication protocols.
- Ensure full compliance with data privacy regulations, addressing data subject requests and managing consent effectively.

Technical Proposal Requirements:

Proposed big data platform must include the following security capabilities:

Describe the proposed tool and the approach for Data Governance including (Data Authentication, Data Authorization and Access Control, Auditing and Masking).

Deliverables:
In an increasingly digital world, effective data management is pivotal for any organization aiming to harness the full potential of its data. For the Ministry of Digital Economy and Entrepreneurship (MODEE), this entails not only the proper collection, storage, and handling of data but also the implementation of policies, procedures, and standards that ensure data accuracy, availability, and security. This section outlines the comprehensive scope of data management that MODEE intends to adopt, encompassing everything from assessing current practices and implementing a robust data management framework, to defining data quality rules, security requirements, and integration needs.

- Implement tool and user manual and documentation, including design documents, architecture diagrams, user manuals, and other relevant materials to MODEE describing Data Governance including (Data Authentication, Data Authorization and Access Control, Auditing and Masking).

3.7 Platform Administration

The Platform Administration section involves strategic planning and execution strategies essential for overseeing and managing the operational aspects of the platform. It encompasses defining administrative policies, implementing necessary tools, and establishing protocols for seamless

platform operation. This section aims to ensure efficient management, maintenance, and monitoring of the platform, aligned with project objectives and operational requirements.

Winning bidder activities:

The winning bidder is required to perform the activities mentioned below, noting that any additional related activities needed for the proper completion of the project should be provided by the winning bidder and its cost should be included in the fixed lump sum price submitted by the bidder:

- Create and implement an Admin Console with an intuitive GUI, allowing administrators to manage platform deployments and configurations. This includes the ability to initiate and halt the entire cluster or individual services, manage security settings, and execute upgrades and configurations.
- Implement a management/administration module within the proposed Big Data platform, integrating an API for programmatically executing administrative tasks, empowering administrators to perform management tasks programmatically.
- Develop an Admin Console facilitating automated installation, upgrades, and real-time monitoring of cluster hosts and running services.
- Propose automating installation and upgrade processes, offering real-time insights into cluster hosts and running services.
- Construct a centralized Admin Console enabling administrators to execute configuration changes, utilize reporting tools, and diagnostics for optimizing performance and utilization across the cluster. Propose a singular, central console enabling administrators to implement cluster-wide configuration changes.
- Design the Admin Console to handle security, encryption, and service search functionalities, allowing admins to search for services, roles, hosts, configuration properties, and commands using auto-complete text.
- Provide various functionalities within the Admin Console:
    - Implement various functionalities within the Admin Console, such as displaying cluster hosts, generating reports concerning Data Storage, Processing, Application Layer, Data Access Usage, and managing directory quotas.
    - Present aggregated utilization data for the resource manager and Data Access Usage.
    - Allow querying Data Processing jobs, applications managed by the resource manager, and SQL queries running on the cluster.
    - Manage dynamic and static allocation of cluster resources to any service/component.
    - List managed hosts, distribute and activate new software packages, and configure host-specific overrides.
    - Display roles deployed on each host, monitor disk status, view detailed metrics, and manage running processes.
    - Provide functionalities to decommission/recommission hosts, review logs, events, and alerts, and search, filter, and display events, alerts, and logs by service, role, host, search phrase, and log level (severity).
    - Enable querying and filtering audit events across clusters, displaying personalized chart dashboards, and managing data replication schedules and snapshot policies for the distributed file system.

Technical Proposal Requirements:

Proposed big data platform must include an embedded web-based Administration Console with an intuitive, simplified GUI for platform administrators to manage the platform deployments and configurations across one or more clusters.

- Propose an embedded web-based Administration Console with an intuitive, simplified GUI. Empower administrators to efficiently control the entire cluster, start and stop services, configure new services, manage security settings, and oversee cluster upgrades seamlessly.
- Explain the inclusion of a programmable API within the management/administration module, allowing administrators to perform management tasks programmatically.
- Propose automating installation and upgrade processes, providing real-time insights into cluster hosts and running services for swift decision-making and effective platform management.
- Propose a singular, central console, enabling administrators to implement cluster-wide configuration changes. Additionally, explain the comprehensive suite of reporting and diagnostic tools to optimize the platform's performance and utilization efficiently.
- Propose prioritizing security and encryption functionalities, alongside support for an intuitive search feature. This feature allows administrators to swiftly locate services, roles, hosts, configuration properties, and commands using auto-complete text functionality.
- Propose encompassing all functionalities detailed earlier in the activities section, ensuring a comprehensive suite of management capabilities within the Admin Console.

Deliverables:

Outlined here are the tangible outputs, reports, plans, or services that bidders are expected to include in their proposals for the Government Big Data Governance and Implementation project:
- Embedded Web-Based Administration Console cover all requirements mentioned in winning bidder activities.
- Documentation for the Embedded Web-Based Administration Console; cover the architecture, technology choices, and methodologies of the console and visual representations and descriptions of all solution components, specific Government Private Cloud (GPC) services required, data ingestion, integration, and processing strategies, scalability, performance optimization, security measures, and compliance strategies. Also, methods and tools for presenting data insights, testing and optimization plans, and detailed specifications of technologies, architectures, and components. The documentation will provide a rationale for the chosen architecture, technologies, tools, and methodologies, and include a logical infrastructure architecture diagram.

4. ADMINISTRATIVE PROCEDURES AND REQUIREMENTS

4.1 QUALIFIED BIDDERS

Bidders should provide the below minimum qualifications for the company profile and staff, CVs. Deviations may be grounds for disqualifications:

1. Bidder must be a local partner for the provided solution. A valid certified official certificate proving the company is a local Partner for the proposed solution must be provided attached to the technical proposal. **Not being a local partner for the provided solution will result in disqualifying the proposal.**
2. References: One similar references projects are required in the last 5 years.
3. **Bidders must provide an accomplishment letter for each project, failing to provide the requested letter may lead to elimination**
4. CVs for the staff who will work on the project. Below are the minimum requirements for the staff qualifications. Bidders must commit with the proposed staff during the support period:

Position	Minimum Experience	Number of resources
Project Manager	3+ years of project management experience	1
Big Data Architecture Engineer	Last 5 years of experience in data architecture and modeling and at least one successful reference	1
Data Engineer	3+ years of experience in data engineering and ETL processes	2
Senior Data Analyst	5+ years of experience in data analysis	1
Data Governance Specialist	last 3 years of experience in data governance with proof	1

4.2 RESPONSE PROCEDURES

All inquiries with respect to this RFP are to be addressed to MoDEE tender department writing by e-mail with the subject "Government Big Data Governance and Implementation ". Inquiries can only be addressed to [eGov_tenders@MoDEE.gov.jo] by 10/3/2024. Responses will be sent in writing no later than 17/3/2024. Questions and answers will be shared with all Bidders' primary contacts.

4.3 RESPONSE FORMAT

Note: Where some skills are not available, the bidder should sub-contract with a reputable firm to cover for this specific skill, services, or equipment provided that the main contractor will be

responsible towards MoDEE. In case of subcontracting, the subcontractor must be approved by MoDEE and the contractor will be liable for all works performed by the sub-contractor, subcontracting may be with national or international firms.

1. Bidders responding to this RFP should demonstrate up-to-date capabilities and experience in providing similar services and similar engagements of the same scope, size and nature. These services and engagements are expected to be performed by the bidder during the last 5 years reference projects. with note one similar references projects are required in the last 5 years

The response to this RFP is subject to the general rules applied for responding to government tenders.

Bidders' written response to the RFP must include:

Part I: Technical and Corporate Capability.

A. Corporate capability statement.

Corporate capability statement should include the following:

- A summary of the organization's capabilities, including previous experience in similar projects during the last 5 years highlighting the following – at least 1 complete references (Please include the scope, and starting and finishing dates of each provided reference as the below template) – references of the mother company are accepted as well.

Project Name	
Start date	
End date	
Project components	

- A list of the clients highlighting any potential conflicts of interest.

B. Technical proposal

The technical proposal shall include a full compliance to the approach to achieve the scope of work defined in this RFP and delivering each of the major components as specified in the Scope of Work and Deliverables section

For the evaluation to progress quickly and effectively, bidders are requested to provide **Part I** of their proposal in the following format:

- Section 1: Introduction: Including the bidders understanding of the RFP scope of work and necessary skills, and company profile.
- Section 2: Executive Summary: An overview of the main points contained in the proposal with references to sections where more detailed discussion of each point can be found.
- Section 3: all Items described in section 3.Scope of Work and Deliverables beside any additional related activities needed for the successful implementation of the project.
- Section 4: Project Approach and Implementation Methodology to achieving the scope of work defined in this RFP and delivering each of the major components as specified in the Deliverables section..
- Section 5: Work plan and duration (implementation plan): The work plan and duration for the
- Section 6: CV's of Project Staff Format of any proposed team and description of each staff role and their relevant experience, brief CVs of the team who will work on the project (all detailed CVs will be included in an Appendix) The bidder should also indicate the availability of the proposed staff and their area of competency.

- Compliance with features and requirements listed in section 2.3 Features and Requirements. **Not providing the compliance sheet will lead to disqualification.**

The bidder should provide deliverables in English.

Part II: Financial proposal

The financial proposal should include a cost summary and a detailed cost analysis section. The cost summary must provide a fixed lump sum price in Jordan Dinars for the overall scope of work and deliverables including all fees, taxes including sales tax. The supporting detailed cost analysis should provide a breakdown and details of the pricing should be provided. The pricing should show the proposed linkage between deliverables and payments. Financial proposal should include the Form of Bid (عرض المناقصة) **and summary of remuneration** (خلاصة بدلات الأتعاب) attached in the Arabic Sample Agreement under (ملحق الاتفاقية رقم 2 و رقم 3) duly filled; signed and stamped by the bidder. The Financial proposal should be submitted in separation of the technical proposal.

The financial offer should be inclusive of the General Sales Tax and all applicable fees and taxes

Part III: Bid Security

This part includes the original Bid Guarantee.

4.4 RESPONSE SUBMISSION

[Bidders must submit proposals to this RFP to the MODEE no later than **12:00 PM on [1/4/2024]** (Jordan Local Time).

- Ministry of Digital Economy and Entrepreneurship
- Tender No: [8eGovt2024]
- Tendering Department – 3rd floor
- Ministry of Digital Economy and Entrepreneurship
- 8th circle
- P.O. Box 9903
- Amman 11191 Jordan
- Tel: 00 962 6 5805642
- Fax: 00 962 6 5861059

Proposals should be submitted as 3 separate parts each part in a separate well-sealed and wrapped envelope clearly marked, respectively, as follows:

- **Part I "Government Big Data Governance and Implementation - Technical and Corporate Capabilities Proposal"**. This part (envelope) should contain 1 original hard copies and 1 softcopy (CD) [in Microsoft Office 2010 or Office 2010 compatible formats]. This part should not contain any reference to cost or price. Inclusion of any cost or price information in the technical proposal will result in the bidder's proposal being disqualified as irresponsive.

- **Part II "Government Big Data Governance and Implementation - Financial Proposal"**. This part (envelope) should contain 1 original hard copies and 1 softcopy (CD) [in Microsoft Office 2010 or Office 2010 compatible formats].
- **Part III "Government Big Data Governance and Implementation – Bid Bond"** This part (envelope) should contain 1 hard copy. This part should not contain any reference to cost or price. Inclusion of any cost or price information in the technical proposal will result in the bidder's proposal being disqualified as irresponsive.

Note: Each CD should be enclosed in the relevant envelop. Late submissions will not be accepted nor considered and in case of discrepancy between the original hard copy and other hard copies and/or the soft copy of the proposal, the hard copy marked as original will prevail and will be considered the official copy. Proposals may be withdrawn or modified and resubmitted in writing any time before the submission date.

Regardless of method of delivery, the proposals must be received by MoDEE no later than **12:00 PM on 1/4/2024** (Jordan Local Time). MoDEE will not be responsible for premature opening of proposals not clearly labelled.

4.5 RESPONSE EVALUATION

The overall proposal will be evaluated both technically and financially according to the following criteria:
- Overall Technical Proposal 70%
- Overall Financial Proposal 30%
- The overall bidders mark will be calculated as follows:

> (30* least value of financial proposals) / Bidder financial proposal value + (%70*bidder technical mark)

Technical proposal shall be first evaluated according to the following criteria:
Mentioned in annex 5.5.
- Past Experience: 1 projects in the last 5 years of similar proposed solution (20%).
- Staff Qualifications and Experience (33%): the team should be composed of the following titles besides any specially as per the project requirements:
- As mentioned in 4.1 section Presentation by the bidders to be conducted while the evaluation period (20%) - not passing 17/20 will lead to disqualification. Presentation should fully cover the methodology of implementation of the project.

- Compliance sheet with all activities and deliverables mentioned in section 3.1.12. (15%)
- Proposed Approach and Methodology in correspondence to the RFP requirements including to the following components (12%)

Only those bidders that qualify in the technical proposal will have their financial offers reviewed. The Financial proposal will be evaluated only for companies who qualify, based on a minimum acceptable score that is 80%. The financial offer of those who do not qualify will not be opened and will be returned. MoDEE reserves the right not to select any offer. MoDEE also assumes no responsibility for costs of bidders in preparing their submissions.

4.6 FINANCIAL TERMS

Bidders should take into consideration the following general financial terms when preparing and submitting their proposals:

    a. Compliance to implement the scope of work as described in the scope of work document and with reference to all framework agreement details, components, terms and conditions, solution features described in annex 5.2.

    b. Financial proposal should include the Form of Bid (عرض المناقصة) and summary of remuneration (خلاصة بدلات الأتعاب)attached in the Sample Arabic Agreement annex 5.1 under ملحق امر العمل رقم 2 و (رقم 4) duly filled; signed and stamped by the bidder.

    c. Bidders are requested to provide their financial proposal as per the format described in Annex 5.7.

- على الفريق الثاني ان يشمل سعره الضريبة العامة على المبيعات بنسبة (16%) الا إذا كانت الشركة خاضعة للضريبة العامة على المبيعات بنسبة (0) % (بموجب كتاب رسمي من هيئة الاستثمار يرفق مع العرض المالي) يتم عكس هذه النسبة على السعر المقدم من قبلها.
- في حال عدم توضيح الضريبة العامة عل المبيعات على السعر المقدم من قبل الشركة يعتبر سعر الشركة شامل للضريبة العامة على المبيعات بنسبة 16%.

- All prices should be quoted in Jordanian Dinars inclusive of all expenses, governmental fees, and taxes, including sales tax
- The type of contract will be a fixed lump sum price contract including costs of all expenses incurred
- A clear breakdown (table format) of the price should be provided including price for consulting time, other expenses, etc.
- The bidder shall bear all costs associated with the preparation and submission of its proposal and MoDEE will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the proposal process.

- The bidders shall furnish detailed information listing all commissions and gratuities, if any, paid or to be paid to agents relating to this proposal and to contract execution if the bidder is awarded the contract. The information to be provided shall list the name and address of any agents, the amount and currency paid and the purpose of the commission or gratuity.
- The Bidder shall submit a (Tender Bond) proposal security on a form similar to the attached format in Jordanian Dinars for a flat sum of (4000 J.D) (in a separate sealed envelope. The bond will be in the form of a certified cheque or bank guarantee from a reputable registered bank, located in Jordan, selected by the bidder. The bidder shall ensure that the (tender bond) proposal security shall remain valid for a period of 120 days after the bid closing date or 30 days beyond any extension subsequently requested by the tendering committee, and agreed to by the bidder.
- Any proposal not accompanied by an acceptable proposal security (tender bond) shall be rejected by the tendering committee as being non-responsive pursuant to RFP.
- The proposal security of the unsuccessful bidders will be returned not later than 30 days after the expiration of the proposal validity period.
- The winning bidder is required to submit a performance bond of 10% of the total value of the contract within 14 days as of the date of award notification letter.
- The proposal security of the winning bidder will be returned when the bidder has signed the contract and has furnished the required performance security.
- The proposal security may, in the sole discretion of the tendering committee, be forfeited:
  - If the bidder withdraws its proposal during the period of proposal validity as set out in the RFP; or
  - In the case of winning bidder, if the bidder fails within the specified time limit to sign the contract; or furnish the required performance security as set out in the contract.
- The winning bidder must pay the fees of the RFP advertisement issued in the newspapers.
- MoDEE is not bound to accept the lowest bid and will reserve the right to reject any bids without the obligation to give any explanation.
- Bidders must take into consideration that payments will be as specified in the tender documents and will be distributed upon the winning submission and acceptance of the scope of work and of the deliverables and milestones of the scope of work defined for the project by the first party.
- MoDEE takes no responsibility for the costs of preparing any bids and will not reimburse any Bidder for the cost of preparing its bid whether winning or otherwise.

4.7 LEGAL TERMS

Bidders should take into consideration the following general legal terms when preparing and submitting their proposals:

- The proposal shall be signed by the bidder or a person or persons duly authorized to bind the bidder to the contract. The latter authorization shall be indicated by duly legalized power of attorney. All the pages of the proposal, except un-amended printed literature, shall be initialled by the person or persons signing the proposal.
- Any interlineations, erasures or overwriting shall only be valid if they are initialled by the signatory (ies) to the proposal.
- The bid shall contain an acknowledgement of receipt of all Addenda to the RFP, the numbers of which must be filled in on the Form of Bid attached to the Arabic Sample Agreement.
- MoDEE requires that all parties to the contracting process observe the highest standard of ethics during the procurement and execution process. The Special Purchase committee will reject a proposal for award if it determines that the Bidder has engaged in corrupt or fraudulent practices in competing for the contract in question.

Corrupt Practice means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.

Fraudulent Practice means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of MoDEE, and includes collusive practice among Bidders (prior to or after proposal submission) designed to establish proposal prices at artificial non-competitive levels and to deprive MoDEE of the benefits of free and open competition.

- No bidder shall contact MoDEE, its employees or the Special Purchase committee or the technical committee members on any matter relating to its proposal to the time the contract is awarded. Any effort by a bidder to influence MoDEE, its employees, the Special Purchase committee or the technical committee members in the tendering committee's proposal evaluation, proposal comparison, or contract award decision will result in rejection of the bidder's proposal and forfeiture of the proposal security
- The remuneration of the Winning Bidder stated in the Decision of Award of the bid shall constitute the Winning Bidder sole remuneration in connection with this Project and/or the Services, and the Winning Bidder shall not accept for their own benefit any trade commission, discount, or similar payment in connection with activities pursuant to this Contract or to the Services or in the discharge of their obligations under the Contract, and the Winning Bidder shall use their best efforts to ensure that the Personnel, any Sub-contractors, and agents of either of them similarly shall not receive any such additional remuneration.
- A business registration certificate should be provided with the proposal
- The laws and regulations of The Hashemite Kingdom of Jordan shall apply to awarded contracts.
- MoDEE takes no responsibility for the costs of preparing any bids and will not reimburse any bidder for the cost of preparing its bid whether winning or otherwise.
- If the winning bidder is an international company, it must provide a local representative or a local partner in Jordan.

- Bidders must review the Sample Arabic Contract Agreement provided with this RFP and that will be the Contract to be signed with the winning bidder. Provisions in this Sample Arabic Contract Agreement are not subject to any changes; except as may be amended by MoDEE before tender submission; such amendments are to be issued as an addendum.
- Proposals shall remain valid for period of (90) days from the closing date for the receipt of proposals as established by the Special Purchase committee.
- The Special Purchase committee may solicit the bidders' consent to an extension of the proposal validity period. The request and responses thereto shall be made in writing or by fax. If a bidder agrees to prolong the period of validity, the proposal security shall also be suitably extended. A bidder may refuse the request without forfeiting its proposal security; however, in its discretion, the Special Purchase committee may cease further review and consideration of such bidder's proposal. A bidder granting the request will not be required nor permitted to modify its proposal, except as provided in this RFP.
- MoDEE reserves the right to accept, annul or cancel the bidding process and reject all proposals at any time without any liability to the bidders or any other party and/withdraw this tender without providing reasons for such action and with no legal or financial implications to MoDEE.
- MoDEE reserves the right to disregard any bid which is not submitted in writing by the closing date of the tender. An electronic version of the technical proposal will only be accepted if a written version has also been submitted by the closing date.
- MoDEE reserves the right to disregard any bid which does not contain the required number of proposal copies as specified in this RFP. In case of discrepancies between the original hardcopy, the other copies and/or the softcopy of the proposals, the original hardcopy will prevail and will be considered the official copy.
- MODEE reserves the right to enforce penalties on the winning bidder in case of any delay in delivery defined in accordance with the terms set in the sample Arabic contract. The value of such penalties will be determined in the Sample Arabic contract for each day of unjustifiable delay.
- Bidders may not object to the technical or financial evaluation criteria set forth for this tender.
- The winning bidder will be expected to provide a single point of contact to which all issues can be escalated. MODEE will provide a similar point of contact.
- MODEE is entitled to meet (in person or via telephone) each member of the consulting team prior to any work, taking place. Where project staff is not felt to be suitable, either before starting or during the execution of the contract, MoDEE reserves the right to request an alternative staff at no extra cost to MoDEE
- Each bidder will be responsible for providing his own equipment, office space, secretarial and other resources, insurance, medical provisions, visas, and travel arrangements. MODEE will take no responsibility for any non-

Government of Jordan resources either within Jordan or during travel to/from Jordan.

- Any documentation and software procured or developed under 'Government Big Data Governance and Implementation' are the property of MoDEE upon conclusion of 'Government Big Data Governance and Implementation '. Written consent of MODEE must be obtained before sharing any part of this information as reference or otherwise.
- Bidders are responsible for the accuracy of information submitted in their proposals. MoDEE reserves the right to request original copies of any documents submitted for review and authentication prior to awarding the tender.
- The bidder may modify or withdraw its proposal after submission, provided that written notice of the modification or withdrawal is received by the tendering committee prior to the deadline prescribed for proposal submission. Withdrawal of a proposal after the deadline prescribed for proposal submission or during proposal validity as set in the tender documents will result in the bidder's forfeiture of all its proposal security (bid bond).
- A bidder wishing to withdraw its proposal shall notify the Special Purchase committee in writing prior to the deadline prescribed for proposal submission. A withdrawal notice may also send by fax, but it must be followed by a signed confirmation copy, postmarked no later than the deadline for submission of proposals.
- The notice of withdrawal shall be addressed to the Special Purchase committee at the address in RFP and bear the contract name "Government Big Data Governance and Implementation" and the words "Withdrawal Notice".
- Proposal withdrawal notices received after the proposal submission deadline will be ignored, and the submitted proposal will be deemed to be a validly submitted proposal.
- No proposal may be withdrawn in the interval between the proposal submission deadline and the expiration of the proposal validity period. Withdrawal of a proposal during this interval may result in forfeiture of the bidder's proposal security.
- The Bidder accepts to comply with all provisions, whether explicitly stated in this RFP or otherwise, stipulated in the governmental Procurement By-Law No. 8 of 2022 and its amendments, and any other provisions stated in the Standard Contracting sample Arabic Contract Agreement annexed to this RFP including general and special conditions, issued pursuant to said Governmental Procurement By-Law and Tendering Instruction.
- The winning bidder shall perform the Services and carry out their obligations with all due diligence, efficiency, and economy, in accordance with the highest generally accepted professional techniques and practices, and shall observe sound management practices, and employ appropriate advanced technology and safe methods. The Winning Bidder shall always act, in respect of any matter relating to this Contract or to the Services, as faithful

advisers to MODEE, and shall at all times support and safeguard MoDEE's legitimate interests in any dealings with Sub-contractors or third parties.

- If there is any inconsistency between the provisions set forth in the Sample Arabic Contract Agreement attached hereto or this RFP and the proposal of Bidder; the Sample Arabic Contract Agreement and /or the RFP shall prevail
- MODEE reserves the right to furnish all materials presented by the winning bidder at any stage of the project, such as reports, analyses, or any other materials, in whole or part, to any person. This shall include publishing such materials in the press, for the purposes of informing, promotion, advertisement and/or influencing any third party, including the investment community. MODEE shall have a perpetual, irrevocable, non-transferable, paid-up right, and license to use and copy such materials mentioned above and prepare derivative works based on them.
- Bidders (whether in joint venture or alone) are not allowed to submit more than one proposal for this RFP.
- **Amendments or reservations on any of the Tender Documents**: Bidders are not allowed to amend or make any reservations on any of the Tender Documents or the Arabic Sample contract agreement attached hereto. In case any bidder does not abide by this statement, his proposal will be rejected for being none-responsive to this RFP. If during the implementation of this project; it is found that the winning bidder has included in his proposal any amendments, reservations on any of the tender documents or the Contract; then such amendments or reservations shall not be considered and the items in the tender documents and the Contact shall prevail and shall be executed without additional cost to MoDEE and the winning bidder shall not be entitled to claim for any additional expenses or take any other legal procedures.
- Nothing contained herein shall be construed as establishing a relation of principal and agent as between MoDEE and the Winning Bidder. The Winning Bidder has complete charge of Personnel and Sub-contractors, if any, performing the Services and shall be fully responsible for the Services performed by them or on their behalf hereunder.
- The Winning Bidder, their Sub-contractors, and the Personnel of either of them shall not, either during the term or after the expiration of the Contract, disclose any proprietary or confidential information relating to the Project, the Services, the Contract, or The Jordan Custom's business or operations without the prior written consent of MoDEE. The Winning Bidder shall sign a Non-Disclosure Agreement with MoDEE as per the standard form adopted by the MoDEE. A confidentiality undertaking is included in annex 6.3
- Sample Arabic Contract Agreement Approval:

Bidders must review the Sample Arabic Contract Agreement version provided with the RFP, which shall be binding and shall be signed with winning bidder.

Bidders must fill out, stamp and duly sign the Form of Bid (نموذج عرض المناقصة) attached to the Arabic Sample Agreement under (2) ملحق رقم and enclose it in their financial proposals.

Bidders must fill out the summary payment schedule form sub annex 3 (الملحق رقم 3) which is part of the Arabic Sample Contract version provided with the RFP, sign and stamp it, and enclose it with the Financial Proposal.

- PROHIBITION OF CONFLICTING ACTIVITIES

Neither the Winning Bidder nor their Sub-contractors nor their personnel shall engage, either directly or indirectly, in any of the following activities:
  - During the term of the Contract, any business or professional activities in Jordan or abroad which would conflict with the activities assigned to them under this bid; or
  - After the termination of this Project, such other activities as may be specified in the Contract.

- INTELLECTUAL PROPERTY RIGHTS PROVISIONS
  - Intellectual Property for the purpose of this provision shall mean all copyright and neighboring rights, all rights in relation to inventions (including patent rights), plant varieties, registered and unregistered trademarks (including service marks), registered designs, Confidential Information (including trade secrets and know how) and circuit layouts, and all other rights resulting from intellectual activity in the industrial, scientific, literary or artistic fields.
  - Contract Material for the purpose of this provision shall mean all material (includes documents, equipment, software, goods, information, and data stored by any means):

a) Brought into existence for the purpose of performing the Services.
b) incorporated in, supplied, or required to be supplied along with the Material referred to in paragraph (a); or
c) Copied or derived from Material referred to in paragraphs (a) or (b).

  - Intellectual Property in all Contract Material vests or will vest in MoDEE. This shall not affect the ownership of Intellectual Property in any material owned by the Winning Bidder, or a Sub-contractor, existing at the effective date of the Contract. However, the Winning Bidder grants to MoDEE, or shall procure from a Sub-contractor, on behalf of MoDEE, a permanent, irrevocable, royalty-free, worldwide, non-exclusive license (including a right of sub-license) to use, reproduce, adapt and exploit such material as specified in the Contract and all relevant documents.
  - If requested by MoDEE to do so, the Winning Bidder shall bring into existence, sign, execute or otherwise deal with any document that may be necessary or desirable to give effect to these provisions.
  - The Winning Bidder shall at all times indemnify and hold harmless MoDEE, its officers, employees and agents from and against any loss (including legal costs and expenses on a solicitor/own client basis) or liability incurred from any claim, suit, demand, action or proceeding by any person in respect of any infringement of Intellectual Property by the Winning Bidder, its officers, employees, agents or Sub-contractors in connection with the performance of

the Services or the use by MoDEE of the Contract Material. This indemnity shall survive the expiration or termination of the Contract.

- o The Winning Bidder not to benefit from commissions discounts, etc. The remuneration of the Winning Bidder stated in the Decision of Award of the bid shall constitute the Winning Bidder sole remuneration in connection with this Project and/or the Services, and the Winning Bidder shall not accept for their own benefit any trade commission, discount, or similar payment in connection with activities pursuant to this Contract or to the Services or in the discharge of their obligations under the Contract, and the Winning Bidder shall use their best efforts to ensure that the Personnel, any Sub-contractors, and agents of either of them similarly shall not receive any such additional remuneration.

- THIRD PARTY INDEMNITY

Unless specified to the contrary in the Contract, the Winning Bidder will indemnify MoDEE, including its officers, employees and agents against a loss or liability that has been reasonably incurred by MoDEE as the result of a claim made by a third party:

- o Where that loss or liability was caused or contributed to by an unlawful, negligent, or willfully wrong act or omission by the Winning Bidder, its Personnel, or sub-contractors; or
- o Where and to the extent that loss or liability relates to personal injury, death, or property damage.

- LIABILITY
  - o The liability of either party for breach of the Contract or for any other statutory cause of action arising out of the operation of the Contract will be determined under the relevant law in Hashemite Kingdom of Jordan as at present in force. This liability will survive the termination or expiry of the Contract. Winning bidder's total liability relating to contract shall in no event exceed the fees Winning bidder receives hereunder, such limitation shall not apply in the following cases (in addition to the case of willful breach of the contract):
    - ▪ gross negligence or willful misconduct on the part of the Consultants or on the part of any person or firm acting on behalf of the Consultants in carrying out the Services,
    - ▪ an indemnity in respect of third party claims for damage to third parties caused by the Consultants or any person or firm acting on behalf of the Consultants in carrying out the Services,
    - ▪ infringement of Intellectual Property Rights

4.8 CONFLICT OF INTEREST

- The Winning bidder warrants that to the best of its knowledge after making diligent inquiry, at the date of signing the Contract no conflict of interest

exists or is likely to arise in the performance of its obligations under the Contract by itself or by its employees and that based upon reasonable inquiry it has no reason to believe that any sub-contractor has such a conflict.

- If during the course of the Contract a conflict or risk of conflict of interest arises, the Winning bidder undertakes to notify in writing MoDEE immediately that conflict or risk of conflict becomes known.
- The Winning bidder shall not, and shall use their best endeavors to ensure that any employee, agent or sub-contractor shall not, during the course of the Contract, engage in any activity or obtain any interest likely to conflict with, or restrict the fair and independent performance of obligations under the Contract and shall immediately disclose to MoDEE such activity or interest.
- If the Winning bidder fails to notify MoDEE or is unable or unwilling to resolve or deal with the conflict as required, MoDEE may terminate this Contract in accordance with the provisions of termination set forth in the Contract.

4.9 SECRECY AND SECURITY

The Winning bidder shall comply and shall ensure that any sub-contractor complies, so far as compliance is required, with the secrecy and security requirements of MoDEE, or notified by MoDEE to the Winning bidder from time to time.

4.10 DOCUMENT PROPERTY

All plans, drawings, specifications, designs, reports, and other documents and software submitted by the Winning bidder in accordance with the Contract shall become and remain the property of MoDEE, and the Winning bidder shall, not later than upon termination or expiration of the Contract, deliver all such documents and software to MoDEE, together with a detailed inventory thereof. Restrictions about the future use of these documents, if any, shall be specified in the Special Conditions of the Contract.

4.11 REMOVAL AND REPLACEMENT OF PERSONNEL

- Except as MoDEE may otherwise agree, no changes shall be made in the key Personnel. If, for any reason beyond the reasonable control of the Winning bidder, it becomes necessary to replace any of the key Personnel, the Winning bidder shall provide as a replacement a person of equivalent or better qualifications and upon MoDEE approval.
- If MoDEE finds that any of the Personnel have (i) committed serious misconduct or have been charged with having committed a criminal action, or (ii) have reasonable cause to be dissatisfied with the performance of any of the Personnel, then the Winning bidder shall, at MoDEE's written request specifying the grounds thereof, provide as a replacement a person with qualifications and experience acceptable to MoDEE.

4.12 OTHER PROJECT RELATED TERMS

MoDEE reserves the right to conduct a technical audit on the project either by MoDEE resources or by third party.

5 Annexes

5.1 SAMPLE ARABIC AGREEMENT

<Attached>

5.2 KEY RFP DATES

ITEM	DATE (DD/MM/YY)
Deadline for submission of bidders' questions to RFP	10/3/2024
Expected date for answers to bidders' questions	17/3/2024
Proposal deadline	1/4/2024

5.3 CONFIDENTIALITY UNDERTAKING

Confidentiality Undertaking

_____

This Undertaking is made on [DATE] by [NAME] "[Consultant]" to the benefit of the Ministry of Information and Communications Technology, "[Principal]" [8th Circle, P.O. Box 9903, Amman 11191 Jordan].

WHEREAS, MODEE possesses certain financial, technical, administrative and other valuable Information (referred to hereinafter as Confidential Information)

WHEREAS, [Consultant], while performing certain tasks required by the Principal in connection with the ………………. (The Project), did access such Confidential Information,

WHEREAS, the Principal considers the Confidential Information to be confidential and proprietary.

Confidential Information:

As used in this Agreement, the term "Confidential Information" means all information, transmitted by Principal or any of its subsidiaries, affiliates, agents, representatives, offices and their respective personnel, consultants and winning bidders, that is disclosed to the Winning bidder or coming to his knowledge in the course of evaluating and/or implementing the Project and shall include all information in any form whether oral, electronic, written, type written or printed form. Confidential Information shall mean information not generally known outside the Principal, it does not include information that is now in or hereafter enters the public domain without a breach of this Agreement or information or information known to Winning bidder by Third Party who did not acquire this information from Principal".

The Consultant hereby acknowledges and agrees that:

(1)   The Confidential Information will be retained in the Principal's premises and will not be moved without the express written consent of the Principal. All Confidential Information shall be and remain the property of the Principal, and such Confidential Information and any copies thereof, as well as any summaries thereof, shall be promptly returned to the Principal upon written request and/or destroyed at the Principal's option without retaining any copies. The Winning bidder shall not use the Confidential Information for any purpose after the Project.

(2)   It will use all reasonable means and effort, not less than that used to protect its own proprietary information, to safeguard the Confidential Information.

(3)   The Winning bidder shall protect Confidential Information from unauthorized use, publication, or disclosure.

(4)   It will not, directly or indirectly, show or otherwise disclose , publish, communicate, discuss , announce, make available the contents of the Confidential Information or any part thereof to any other person or entity except as authorized in writing by the Principal.

(5)   It will make no copies or reproduce the Confidential Information, except after the Principal's written consent.

Remedy and damages:

The Winning bidder acknowledges that monetary damages for unauthorized disclosure may not be less than 20% of the Project and that Principal shall be entitled, in addition to monetary damages and without waiving any other rights or remedies, to such injunctive or equitable relief as may be deemed proper by a court of competent jurisdiction.

Employee Access and Control of Information

It is understood that the Winning bidder might need from time to time to discuss the details of confidential Information with other individuals employed within its own or associated companies in order to support, evaluate, and/or advance the interests of the subject business transaction. Any such discussion will be kept to a minimum, and the details disclosed only on a need to know basis. Prior to any such discussion, the Winning bidder shall inform each such individual of the proprietary and confidential nature of the Confidential Information and of the Winning bidder's obligations under this Agreement. Each such individual shall also be informed that by accepting such access, he thereby agrees to be bound by the provisions of this Agreement. Furthermore, by allowing any such access, the Winning bidder agrees to be and remain jointly and severally liable for any disclosure by any such individual that is not in accordance with this Agreement.

Miscellaneous

The obligations and rights of the Parties shall be binding on and inure to the benefit of their respective heirs, successors, assigns, and affiliates. This Agreement may be amended or modified only by a subsequent agreement in writing signed by both parties. Winning bidder may not transfer or assign the Agreement or part thereof. No provision of this Agreement shall be deemed to have been waived by any act or acquiescence on the part of the Principal, its agents or employees, nor shall any waiver of any provision of this Agreement constitute a waiver of any other provision(s) or of the same provision on another occasion. This Agreement shall be construed and enforced according to Jordanian Law. The Winning bidder hereby agrees to the jurisdiction of the Courts of Amman, Jordan and to the jurisdiction of any courts where the Principal deems it appropriate or necessary to enforce its rights under this Agreement.

Term of Agreement

The obligations of the parties under this Agreement shall continue and survive the completion of the Project and shall remain binding even if any or all of the parties abandon their efforts to undertake or continue the Project.

IN WITNESS WHEREOF, the Winning bidder hereto have executed this Agreement on the date first written above.

Consultant:

By: _____

Authorized Officer

5.4 Bidder's Information

All bidders shall disclose and fill the below information using the following template:

Please note that if any bidder fails to fill the below information or gives incorrect information, it will be disqualified

Required info	Details
The name of the company (as in the registration license)	
The location of the company	
The owners of the company	
The name and owners of the subcontractor company (if any)	
The name of the Joint Venture members and their owners (if any)	
The name and owners of the local partner (in case of international bidder)	
The human recourses working on this tender (names, experience, current employer …)	
The registration license of the bidder (the subcontractor and the JV member)	Attachment

5.5 Evaluation Criteria

<Attached>

5.6 Letter of Acceptance of the World Bank's Anticorruption Guidelines and Sanctions Framework[1]

Date: __

Invitation of Bids/Proposals No._____

To: _____

We, along with our sub-contractors, sub-consultants, service providers, suppliers, agents (whether declared or not) consultants and personnel, acknowledge and agree to abide by the World Bank's policy regarding Fraud and Corruption (corrupt, fraudulent, collusive, coercive, and obstructive practices), as set out and defined in the World Bank's Anti-Corruption Guidelines[2] in connection with the procurement and execution of the contract (in case of award), including any amendments thereto.

We declare and warrant that we, along our sub-contractors, sub-consultants, service providers, suppliers, agents (whether declared or not), consultants and personnel, are not subject to, and are not controlled by any entity or individual that is subject to, a temporary suspension, early temporary suspension, or debarment imposed by a member of the World Bank Group, including, inter alia, a cross-debarment imposed by the World Bank Group as agreed with other international financial institutions (including multilateral development banks), or through the application of a World Bank Group finding of non-responsibility on the basis of Fraud and Corruption in connection with World Bank Group corporate procurement. Further, we are not ineligible under the laws or official regulations of *[Insert name of Employer as per bidding document]* or pursuant to a decision of the United Nations Security Council.

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[1][Drafting note: This document shall be signed by bidders/proposers/consultants and submitted as part of their bids/proposals. In addition, this document shall be signed by the winning bidder/consultant and incorporated as part of the contract.]

[2]Guidelines on Preventing and Combating Fraud and Corruption in Projects Financed by International Bank for Reconstruction and Development Loans and the International Development Agency Credits and Grants, dated October 15, 2006, and revised in January 2011 and July 2016, as they may be revised from time to time.

We confirm our understanding of the consequences of not complying with the World Bank's Anti-Corruption Guidelines, which may include the following:
a. rejection of our Proposal/Bid for award of contract;
b. in the case of award, termination of the contract, without prejudice to any other remedy for breach of contract; and
c. Sanctions, pursuant to the Bank's Anti-Corruption Guidelines and in accordance with its prevailing sanctions policies and procedures as set forth in the Bank's Sanctions Framework. This may include a public declaration of ineligibility, either indefinitely or for a stated period of time, (i) to be awarded or otherwise benefit from a Bank-financed contract, financially or in any other manner;[3] (ii) to be a nominated[4] sub-contractor, sub-consultant, consultant, manufacturer or supplier, or service provider of an otherwise eligible firm being awarded a Bank-financed contract; and (iii) to receive the proceeds of any loan made by the Bank or otherwise to participate further in the preparation or implementation of any Bank-financed project.

We understand that we may be declared ineligible as set out above upon:
a. completion of World Bank Group sanctions proceedings according to its prevailing sanctions procedures;
b. cross-debarment as agreed with other international financial institutions (including multilateral development banks);
c. the application of a World Bank Group finding of non-responsibility on the basis of Fraud and Corruption in connection with World Bank Group corporate procurement; or
d. Temporary suspension or early temporary suspension in connection with an ongoing World Bank Group sanctions proceeding.

For avoidance of doubt, the foregoing effects of ineligibility do not extend to a sanctioned firm's or individual's execution of its ongoing Bank-financed contracts (or its ongoing sub-agreements under such contracts) that are not the subject of a material modification, as determined by the Bank.

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[3] For the avoidance of doubt, a sanctioned party's ineligibility to be awarded a contract shall include, without limitation, (i) applying for pre-qualification or initial selection), expressing interest in a consultancy, and bidding, either directly or as a nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider, in respect of such contract, and (ii) entering into an addendum or amendment introducing a material modification to any existing contract.

[4] A nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider (different names are used depending on the bidding document) is one which has been: (i) included by the bidder in its pre-qualification or initial selection application or bid because it brings specific and critical experience and know-how that allow the bidder to meet the qualification requirements for the particular bid; or (ii) appointed by the Borrower.

We shall permit, and shall cause our sub-contractors, sub-consultants, agents (whether declared or not), personnel, consultants, service providers or suppliers, to permit the Bank to inspect[5] all accounts, records, and other documents relating to the procurement process and/or contract execution (in the case of award), and to have them audited by auditors appointed by the Bank.

We agree to preserve all accounts, records, and other documents (whether in hard copy or electronic format) related to the procurement and execution of the contract.

Name of the Bidder/Proposer/Consultant: _____

Name of the person duly authorized to sign the Bid/Proposal on behalf of the Bidder/Proposer/ Consultant:

Title of the person signing the Letter: _____

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[5]Inspections in this context are usually investigative (i.e., forensic) in nature: they involve fact-finding activities undertaken by the Bank or persons appointed by the Bank to address specific matters related to investigations/audits, such as evaluating the veracity of an allegation of possible Fraud and Corruption, through the appropriate mechanisms. Such activity includes but is not limited to accessing and examining a firm's or individual's financial records and information, and making copies thereof as relevant; accessing and examining any other documents, data, and information (whether in hard copy or electronic format) deemed relevant for the investigation/audit, and making copies thereof as relevant; interviewing staff and other relevant individuals; performing physical inspections and site visits; and obtaining third-party verification of information.