

# **APPOINTMENT OF A SERVICE PROVIDER FOR THE DEVELOPMENT AND IMPLEMENTATION OF A DATA WAREHOUSE BASED ON MICROSOFT SQL AND MICROSOFT POWER BI FOR A PERIOD OF 2-YEARS.**

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## **1. Purpose of the Submission**

The purpose of this submission is the appointment of a service provider for the development and implementation of a Microsoft SQL based data warehouse, Power BI dashboards.

## **2. Background and Scope**

Based on a business needs analysis, the Authority has identified a business requirement and is thus looking for a service provider to assist in the development and implementation of a Microsoft SQL Data Warehouse using previously developed Microsoft Power BI reports. The data warehouse will be a central repository, providing a common data model for multiple data sources which can be used by the Authority to store current and historical data, break down silos, increase data integrity, provide ease of access to information and meaningful business insights.

Given the above, the development and implementation of the data warehouse would inter alia encompass:

### **2.1. Designing business requirements.** The data warehouse is only as

powerful as the data contained within and it is thus essential that the data warehouse is aligned with Authority's needs and goals.

### **2.2. Set up the Physical Environments.** This will require the development and implementation of the Production (PRD), Quality assurance (QA), Test and Development (DV) environment; The data sources for the data warehouse is a combination of Microsoft Dynamics 365 (CRM), JD Edwards, HR platforms (Performance management, Employee self-service and Payroll), and Advanced Spectrum Management (ASMS).

These systems currently use a combination of ORACLE and Microsoft SQL as their backend database. However, this is subject to change.

- 2.3. Migration.** The SP is required to migrate the current Microsoft Power BI implementation to use the new data warehouse which is developed as part of this project. This will become the new data source for the existing reports.
- 2.4. Perform Data modelling.** By visualizing data distribution in the data warehouse.
- 2.5. Choosing the Extract, Transfer, Load (ETL) solution.** The process that will be used to pull data out of your current tech stack or existing storage solutions and import the data into the warehouse.
- 2.6. Create the front end for visualization,** this way users can immediately understand and apply the results of data queries.
- 2.7. Online Analytic Processing (OLAP) Cube.** This will be a requirement based on the report requirements in Microsoft Power BI.
- 2.8. Optimize queries.** To ensure that the database is operating effectively and efficiently providing valuable output.
- 2.9. Establish a Rollout.** Provide end-user training to those who make use of the system. ICASA will schedule this in 4 x 1-hour virtual training sessions. Additional administrative training will be required for 2 IT staff members on how to provide 1<sup>st</sup> line support and how to make changes to the reports if required.
- 2.10. SLA.** This is a 2-year contract. Once the data warehouse has been developed to incorporate the data sources as identified in 2.2 above, the remainder of the 2-year period must be in the form of an SLA to support the solution. A minimum of 10 hours per month must be available for the SLA.

### 3. Special Mandatory Conditions

The following are special mandatory conditions for the proposed solution:

Substantiate / Comments		
<b>Condition</b>		
<ul style="list-style-type: none"> <li>Demonstrate that your organisation is a Microsoft Gold Partner in Data Analytics or a combination of Microsoft Power BI and Microsoft SQL. Please provide proof in terms of Microsoft Certification or a letter from Microsoft indicating such.</li> </ul>	<b>Comply</b>	<b>Not Complied</b>

### 5. Evaluation of the Bids

The received bids will be evaluated on the 80/20 procurement principle as per the Supply Chain Management Policy and the relevant Treasury Regulations.

The following evaluation approach will be applied:

- Phase 1 will be the screening of mandatory documents, ensuring compliance thereof and evaluation of specific goals.
- Phase 2 will be the evaluation of functionality criteria.
- Phase 3 will be the live demonstration and presentation of the proposed solution.
- Phase 4 will be an evaluation of price and BBEE.

<b>Functionality Evaluation Criteria</b>	<b>Weights</b>	<b>Scoring Criteria</b>
Provide 5 contactable customer references where a similar project was undertaken within the last 5-years. Customer References must be from the Customer on their letterhead	45	1= No response 2 = 1-2 references provided 3 = 3 references provided 4 = 4 references provided

		5 = 5+ references provided
<p>The service provider should discuss the methodology that will be followed when developing and implementing the Data warehousing solution.</p> <p>This discussion should include the following criteria:</p> <ol style="list-style-type: none"> <li>1. The Methodology to be followed (Agile, Prince 2 etc.)</li> <li>2. Project plan</li> <li>3. Work breakdown structure</li> <li>4. Milestones</li> <li>5. Timing</li> <li>6. Resources</li> <li>7. Project risks management, and</li> <li>8. Quality control management</li> </ol>	55	<p>1= No response</p> <p>3 = 1 - 7 aspects explained</p> <p>5 = All 8 aspects explained</p>
<b>Total</b>	<b>100</b>	<b>The minimum threshold is 70</b>
<b>Live demonstration and presentation evaluation criteria</b>	<b>Weights</b>	<b>Scoring Criteria</b>
<p>The service provider must provide a demonstration and presentation in line with the following:</p> <ol style="list-style-type: none"> <li>1. Live demonstrate an existing Microsoft Power BI dashboards deployment showing multiple dashboards with data correlated from multiple sources</li> </ol>	<b>100</b>	<p>1= No demonstration or presentation</p> <p>2 = 1 aspects demonstrated / explained</p> <p>3 = 2 aspects demonstrated / explained</p>

2. Explain the process of aligning the data warehouse with the Authority's needs and goals		4 = 3 aspects demonstrated / explained
3. Illustrate/explain the Server Infrastructure design topology		5 = 4 to 5 aspects demonstrated / explained
4. Illustrate/explain how the various data sources will be utilised in the data warehouse and what all will be considered		
5. Illustrate/explain the process of data modelling within the solution		
<b>Total</b>	<b>100</b>	<b>The minimum threshold is 70</b>

Only bidders who passed the threshold of 70/100 for functionality will be evaluated further for price and BBEE. In addition, only bidders who passed the threshold of 70/100 for functionality will be invited to do a demonstration and presentation of their proposed solution. Note that if the potential bidder fails to meet the minimum threshold of the live demonstration and presentation evaluation, it will be rendered non-responsive and the potential service provider will not proceed further for price and BBEE evaluation.

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