



## **ANNEXURE D: SCOPE OF WORK**

### **1. PURPOSE**

CEF requires the services of an IT services company that will perform assessment, produce report and recommendations for the upgrade of the Microsoft SQL server.

### **2. BACKGROUND**

CEF currently runs SQL Server 2014 on its production database servers which is coming to an end of life on the 9<sup>th</sup> July 2024 and it will not be extended beyond the expiry date. This necessitates that CEF upgrade to the latest and supported version of Microsoft SQL server.

### **3. SQL Server**

The Microsoft SQL server is a proprietary relational database management system developed by Microsoft as a database server. It is a software product with the principal function of storing and retrieving data requested by other applications. It supports various transaction processing, business intelligence and analytics applications usually in corporate IT environments. The service provider will be required to :

#### **3.1 Investigate the server on the following items:**

- Operating system configuration;
- Disk configuration;
- High Availability/Disaster Recovery setup;
- SQL Server instance configuration;
- Database configuration/health;
- Maintenance of the SQL server;
- Database consistency checks;
- Microsoft SQL Licensing;
- Current architecture configuration;



- Upgrade capabilities;
- Deprecated features;
- Resource utilization;

### **3.2 Provision of report and recommendations:**

- Provide overview of the health of:
  - SQL Server instance/server;
  - Databases;
  - Maintenance;
  - Indexing;
  - Backup approach;
- Provide recommendations for the SQL upgrade;

### **3.3 SQL Server architecture**

Microsoft SQL Server is a client-server architecture. When the Microsoft SQL Server process starts, the client application supplies a request. The SQL Server processes the request, responds with processed data, and transmits it back to the client application.

The diagram below demonstrates the architecture of the SQL Server:

