SCOPE OF WORK FOR HIRING OF SERVICES FOR DESIGN AND DEPLOYMENT OF A SOLUTION FOR POWER BI INCLUDING DEVELOPMENT OF MAP BASED REPORTS

1. The Weapons & Electronics Systems Engineering Establishment (WESEE), under Ministry of Defence, Government of India, intends to obtain Hiring of services for Design and Deployment of a solution for Power BI including development of map based reports.

Introduction

2. Indian Navy is in the process of setting up an interactive and user-friendly map-based dashboard in Power BI that provides insights into key business metrics, enabling data-driven decision-making.

3. The scope of work will consist of comprehensive plan for the Hiring of services for Design and Deployment of a solution for Power BI including development of map based reports, specifically focused on creating a map-based dashboard and related reports. The goal is to provide organisational needs that meets the actionable insights through visual data representation in following requirement:-

(a) Deployment of SQL Server / Enterprise level Power BI in on premise cloud with offline map integration.

(b) Web based

(c) Dashboard development as per user requirement (integrated with multiple database/data sources)

(d) Source code and all configuration file will be handed over to ***IN***.

4. Developed solution would be (able to) and used for analysing data being generated from various platforms and sources in an on premise private cloud. Some features to be developed are as follows: -

(a) **Data Visualization**. Creating intuitive and interactive visualizations. This is crucial for naval operations where complex data sets from sensors (e.g., sonar, radar etc.) need to be interpreted quickly and effectively.

(b) **Real-Time Analytics**. With sensor data being collected continuously, tool to provide real-time analytics and dashboards. This allows naval operators to make timely decisions based on the most current information.

(c) **Integration Capabilities**. Integrate with various data sources, including databases, Excel files, and cloud services. This is particularly useful for combining historical data with real-time sensor data for comprehensive analysis.

(d) **Customizable Reports**. Create tailored reports that focus on specific metrics relevant to naval operations, such as vessel performance, environmental conditions, or mission readiness. (to be developed in dash board)

(e) **Enhanced Collaboration**. Sharing of insights and reports across teams while maintaining control over data access in a private cloud environment.

(f) **Predictive Analytics**. Should support advanced analytics, enabling predictive modeling to forecast trends or mission outcomes based on historical data.

(g) **User-Friendly Interface**. The tool's ease of use allows personnel, regardless of technical expertise, to engage with the data, facilitating a data-driven culture within the naval organization.

(h) **Scalability**. As data volume grows, tool should scale accordingly, accommodating additional sensor data and more complex analyses without compromising performance.

5. Further, it is imperative that the selected software and design tool shouldn't have any requirement to be connected to internet for any update or feature.

Development Timelines

6. Development schedule with respect to date of placement of work order (D) are as follows -

Phase	Timeline (In Months)	Work
Phase 1	D + 1	Deployment of tool (Enterprise version Power BI) in on premise air gapped network with offline map integration.
Phase 2	03 months on completion of Phase I	Dashboards development (05)
Phase 3	02 months on completion of Phase II	Report generation, testing and configuration

Payment Stages.

7. Payment Stages with respect to date of placement of supply order (D) are as follows –

Phase	Work	Timeline (In Months)	Payment
Phase I	Deployment of tool (Enterprise version Power B2) on premise cloud with offline map integration	D + 01	40%
Phase II	Dashboards development (05)	03 months on completion of Phase I	40%
Phase III	Report generation, testing and configuration	02 months on completion of Phase II	20%

8. **Payment Mode.** It will be mandatory for the Service Providerto indicate their bank account numbers and other relevant e-payment details so that payments could be made through ECS/NEFT mechanism instead of payment through cheques, wherever feasible.

9. Payment would be made by CDA (Navy/Coast Guard). The Paying Authority Address is: -

The CDA (Navy/Coast Guard),
West Block-V RK Puram,
New Delhi-110066