REQUEST FOR PROPOSAL (RFP)

By **[ABC Technologies Pvt. Ltd.]**

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1. Description of the Company

ABC Technologies Pvt. Ltd. is an IT solutions provider delivering smart automation, AI-driven analytics, and enterprise-grade digital systems across multiple industries. We specialize in building intelligent platforms that optimize operations and enable data-driven decision making.

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2. Project Requirements — Smart Inventory Management Using Sensors

We are seeking proposals from qualified vendors to build an **IoT-based Smart Inventory Management System** that uses **sensors, real-time tracking, and automated analytics** to monitor inventory levels, predict stock usage, and reduce manual efforts.

Business Goal

To automate the current manual inventory tracking process using sensor-based monitoring and real-time alerts, enabling accuracy, efficiency, and predictive insights.

Problem We Want to Solve

Our current inventory workflow is:

- Manual and time-consuming

- Prone to errors

- Lacks real-time visibility

- Causes operational delays and stock inconsistencies

Current System & Challenges

- Inventory tracked on spreadsheets

- Manual stock counts

- No predictive analytics

- No automated reorder alerts

- Lack of historical movement insights

Technology Stack (Preferred)

- IoT Sensors (RFID, weight sensors, ultrasonic sensors, BLE)

- Azure IoT Hub / Event Hub

- Azure Functions / API backend

- Azure SQL / Cosmos DB

- Power BI for reporting

Expected Deliverables

- Real-time sensor-based tracking system

- Automated stock update engine

- Alerts for low stock, anomalies, and expiry

- Inventory usage analytics dashboard

- Cloud deployment & documentation

- Testing and monitoring setup

Project Management Requirements

- Weekly progress updates

- Agile methodology

- Git-based version control

- Clear documentation of APIs, workflows, and deployments

Team Requirements

- IoT Engineer

- Backend/API Developer

- Cloud Architect

- QA Engineer

- UI/UX Engineer (optional)

Responsibilities Allocation

Vendor will handle:

- Design, development, sensor integration, and deployment

- Dashboard creation

- API and cloud services

- Testing & stabilization

ABC Technologies will provide:

- Inventory workflows

- Existing system access

- Integration points

- Acceptance criteria

NDA Requirement

A signed NDA is mandatory before project discussions and data sharing.

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3. Project Budget & Timeline

Vendors are expected to propose pricing based on effort.
Expected timeline: **8–12 weeks**.

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4. Proposal Requirements

Proposals must include:

- Technical approach

- Architecture diagram

- Resource plan

- Timeline & milestones

- Cost estimation

- Assumptions & exclusions

Deadline for submission: **7 business days** from RFP release.

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5. Points of Contact

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