Software Requirements Specification (SRS)

Project Title: Smart Procurement Management System (SPMS)

# 1. Introduction

**Purpose:**To develop a web-based Smart Procurement Management System for industries to automate the procurement workflow, improve transparency, and ensure efficient supplier handling.

**Scope:**The system will support the full procurement lifecycle including requisition, vendor quotation, purchase order management, approval workflows, and inventory updates.

**Overview:**This document outlines the functional, non-functional, interface, and performance requirements for the proposed Smart Procurement Management System.

# 2. General Description

**Functions:**• Requisition creation  
• Vendor management  
• RFQ processing  
• Purchase order generation  
• Approval tracking  
• Delivery and inventory updates  
• Dashboard for insights

**User Community:**• Procurement Officers  
• Managers/Approvers  
• Admins  
• Vendors

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# 3. Functional Requirements

**Possible Outcomes:**• Approved/Rejected Requisitions  
• Selected Vendor  
• Generated Purchase Order

**Ranked Order:**• Requisition → RFQ → Quotation Comparison → Approval → PO → Delivery

**Input-Output Relationship:**• Input: Requisition Details  
• Output: Approved PO and Inventory Entry

# 4. User Interface Requirements

**Software Interfaces:**• Web-based interface for users  
• Admin dashboard  
• Vendor login interface

**Examples:**• Login page  
• Requisition form  
• Vendor quote comparison table

# 5. Performance Requirements

• Response Time: < 2 seconds for all user actions  
• Throughput: Handle 100+ concurrent users  
• Scalability: Add modules/vendors with minimal performance drop

# 6. Non-Functional Attributes

• Usability: Clean, minimal UI/UX suitable for industrial users  
• Reliability: 99.9% uptime expected  
• Security: Role-based access control, encrypted data transmission

# 7. Schedule and Budget

• Timeline: 4 months (1 month requirement + 2 months development + 1 month testing)  
• Cost Estimate: ₹2,00,000

# 8. Appendices

**Supplementary Information:**• Industry compliance standards  
• ERP integration guidelines

**Glossary:**• RFQ: Request for Quotation  
• PO: Purchase Order  
• ERP: Enterprise Resource Planning