



यशोधरा गाउँपालिका
गाउँ कार्यपालिकाको कार्यालय

बैतडी, कैलाली प्रदेश, नेपाल
लुम्बिनी प्रदेश, नेपाल
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लुम्बिनी प्रदेश, नेपाल

पत्र संख्या :- २०८२/८३

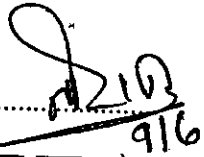
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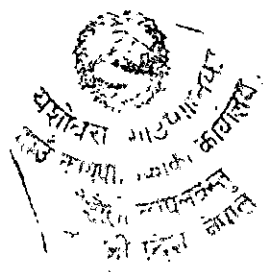
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विषय : आर्थिक तथा प्राविधिक प्रस्ताव पेश गर्ने सम्बन्धमा ।

- श्री मालिका इन्फोसिस एण्ड सर्भिसेस प्रा.लि. चन्द्रागीरी, काठमाण्डौ ।
श्री टौरस टेक्नोलोजिज एण्ड सर्भिसेस प्रा.लि. किर्तिपुर, काठमाण्डौ ।
श्री मालिका सिस्टम टेक्नोलोजी प्रा.लि. बालाजु, काठमाण्डौ ।

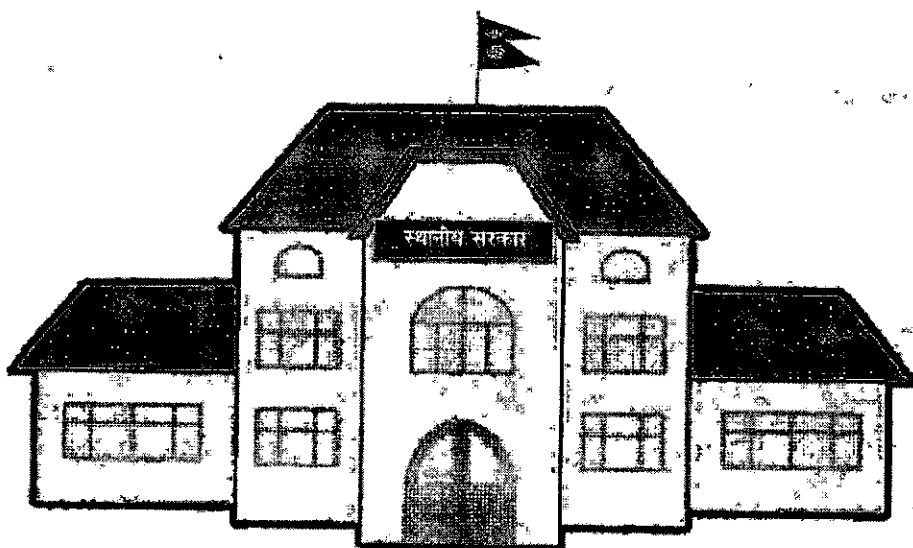
उपरोक्त सम्बन्धमा यस गाउँपालिकामा योजना सम्झौता अनुगमन तथा मुल्याङ्कन गर्ने कार्यको लागि जडान गरिएको (PMIS) Planning Monitoring Information System Software Offline Version सन्चालन रहेकोमा हाल उक्त प्रणालीलाई Upgrading गरी Web Based Online Software सफ्टवेयर नयाँ version परिमार्जन गर्नुपर्ने भएकोले उक्त कार्य के कृति दररेटमा उपलब्ध गराउन सकिन्छ । सो सम्बन्धि कार्यको विस्तृत प्रस्ताव पत्र प्राप्त भएको मिति (७) दिन भित्रमा दररेट खुल्ने गरी पेश गर्नुहुन अनुरोध छ ।


(निराजन राज लम्साल)
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प्रमुख प्रशासकीय अधिकृत



आयोजना संचालन सम्बन्धि सूचना व्यवस्थापन प्रणाली
निर्माणका लागि कार्य शर्त

(ToR for Planning Monitoring Information Management System - PMIS)



(Term of Reference)



यसोधरा गाउँपालिका
गाउँ कार्यपालिकाको कार्यालय
बैदौली, कपिलवस्तु
लुम्बिनी प्रदेश नेपाल



1. PROJECT BACKGROUND

1.1 Organization Profile

- Organization Name: Yashodhara Rural Municipality
- District: Kapilvastu
- Lumbini Province, Nepal

1.2 Project Context

Yashodhara Rural Municipality is currently Developing a Digital Planning Management Information System Development Project with core management modules including consumer committee management, organization registration, employee management, role-based authorization. Building upon this foundation, the municipality now requires a complementary digital planning management system to streamline the planning process for infrastructure projects, building construction, road works, and other municipal development activities. This planning system will integrate with the Developing Thekka Entry system to provide a complete project management solution.

1.3 Project Justification

The development of a digital planning management system will complement the Developing Thekka Entry system and significantly improve the accuracy and efficiency of project planning, reduce manual errors, provide standardized planning templates, enable better project tracking, and facilitate transparent planning processes. This system will integrate seamlessly with the current Thekka Entry system and align with the Digital Nepal Framework to enhance the municipality's capacity for comprehensive project planning and implementation.

2. PROJECT OBJECTIVES

2.1 General Objective

To develop a comprehensive digital planning management system that integrates with the Thekka Entry system and replaces traditional paper-based planning processes with a modern, efficient, and user-friendly web-based application.

2.2 Specific Objectives

- Replace manual paper-based planning with automated digital system
- Integrate seamlessly with the Thekka Entry system
- Standardize planning processes across all municipal projects
- Improve accuracy and reduce errors in project planning
- Enable efficient storage, retrieval, and management of planning data
- Provide comprehensive reporting and analysis capabilities
- Facilitate better project tracking and monitoring
- Create a scalable system that can accommodate future requirements

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3. PROJECT SCOPE AND ARCHITECTURE

3.1 Project Scope

- Duration: 30 Days The project focuses solely on developing the Digital Planning Management Information System Package that should integrate with the main application (To be developed with Thekka Entry system). The main application already includes:
- Consumer Committee Registration and Management
- Organization (Suchikrit) Registration and Management
- Employee Management System
- Department Management System
- Project Registration Management System
- User Management with Permission-based Authorization
- Dashboard with overview statistics
- System configuration and settings
- Internal API framework for module communication

3.2 Digital Planning Management Information System Package Development

- Features:
 - Notice (Darrate) Opening and Management
 - Budget Management and Allocation
 - Plan Listing and Management System
 - Plan Initialization and Setup
 - Contract Management System
 - Plan Monitoring and Progress Tracking
 - Planning Templates and Standards Management
 - Planning Document Management
 - Government Format Plan Generation
 - API integration with Developing Main Application

3.3 System Architecture

The planning management system will be developed as a modular package that integrates with the Developing application architecture:

- Main Application: Core system with comprehensive management modules and Thekka Entry system
- Planning Package: New standalone React, Next.js package that integrates with the main application

3.4 Integration with Developing System

- Shared Authentication: Utilize Developing user management and role-based authorization
- Role-based Access: Leverage Developing permission system for planning module access

4. TECHNICAL SPECIFICATIONS

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4.1 Mandatory Technology Stack

- Backend Framework: Next.js, React
- Frontend Framework: Tailwind-Css + Next UI or higher
- Integration Layer: Next.js (latest version)
- Database: Prisma, PostgreSQL SQL 17
- Package Manager: NPM (Node.js)

4.2 Additional Technical Requirements

- Server Requirements:
 - Node.js: Version 18+ (for build processes)
 - SSL/TLS support
- Development Standards:
 - Coding standards for Next UI with React, Node.js
 - Material-UI (MUI) for React frontend components
 - Responsive design using MUI Grid-system
 - RESTful API architecture
 - Git version control

4.3 Security and Authorization Requirements

- Laravel Sanctum for API authentication
- Role and Permission-based authorization system
- Users assigned to roles, roles contain permissions

4.4 API Architecture Requirements

- RESTful API design principles
- API versioning strategy
- Internal API for module communication
- JSON response format standardization
- Error handling and status codes

5. FUNCTIONAL REQUIREMENTS

5.1 Planning Management Package Features

5.1.2 Budget Management and Allocation

- Annual budget planning and allocation
- Budget category-wise distribution
- Budget approval workflow system
- Budget modification and reallocation
- Budget utilization tracking and monitoring
- Remaining budget calculation
- Budget reporting and analysis

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5.1.2 Plan Initialization and Setup

- New plan creation wizard
- Plan template selection and customization

5.1.3 Project Working Types

- Multiple project modalities management:
 - Direct Implementation (सिधा कार्यान्वयन)
 - Consumer Committee (उपभोक्ता समिति)
 - Toile Development Committee (टोल विकास संस्था)

5.1.4 Planning Document Management

- Plan document creation and storage
- Document sharing and collaboration
- Document search and retrieval
- Document backup and archival

5.1.5 Plan Reports

- Pre-defined government planning report formats
- Automatic data population in standard formats
- Report generation in PDF format
- Print-friendly layout matching government standards
- Official header and footer formatting
- Report validation and verification

6. LOCALIZATION REQUIREMENTS

6.1 Language Support

- Primary: Nepali (Unicode support)

6.2 Local Standards

- Date format: Bikram Sambat and Gregorian calendar
- Currency: Nepali Rupees (NPR)
- Number format: Nepali numbering system support

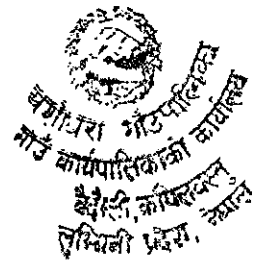
7. DELIVERABLES

7.1 Planning Management Package Deliverables

1. Complete Planning Management Package with Developing main application
 - Budget management and allocation system
 - Plan initialization and setup system
 - Bid management system
 - Project working types (modalities) support system
 - Planning templates and standards management system
 - Plan approval workflow system
 - Planning document management system

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- o plan report generation
2. System Integration
- o Seamless data flow between Developing main app and new planning package
 - o Integration with Developing role-based access control system
 - o Unified reporting across planning

7.2 Common Deliverables

1. Source Code

- Complete source code for planning package
- Code following Next.js and React best practices
- Integration code with Developing system

2. Database

- Database structure with migrations for planning module
- Seeders with sample planning data
- Integration with Developing database structure

8. PROJECT TIMELINE

8.1 Development Timeline

Phase	Duration	Key Milestones
Planning Package Development	30 Days	Complete System Development
- Requirements & Design	5 Days	Requirements analysis
- Development & Integration	20 Days	Core planning features development
- Testing & Deployment	5 Days	Testing, bug fixes, deployment

Total Project Duration: 3 weeks

8.2 Delivery Schedule

- PMIS Planning package delivery, completion and handover: F.Y.:2082/083

9. BUDGET AND PAYMENT TERMS

9.1 Budget Structure

Total Project Budget: Rs. 300000/-

9.2 Additional Considerations

- Hosting setup and configuration (if required)
- Training and knowledge transfer sessions
- 1-year support included

10. VENDOR QUALIFICATIONS

10.1 Mandatory Requirements

- Registered software development company in Nepal
- Valid tax clearance and VAT registration
- Experience with government or public sector projects

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10.2 Technical Team Requirements

Role	Requirements / Experience	Qualifications
Project Manager	Minimum 5 years of technical project management experience - Strong understanding of modular systems - Proven leadership in managing cross-functional teams	Master's degree in Computer Science, IT, or related field
Database Engineer	Minimum 3 years of experience with Postgres SQL, MySQL or equivalent - Expertise in complex relational data modeling and performance tuning - Experience designing scalable architectures	Bachelor's degree in Computer Science, Software Engineering, or related field
Backend Developer	Minimum 3 years of experience with Next.js and database integration	Bachelor's degree in Computer Science, IT, or equivalent
Frontend Developer	Minimum 2 years of experience with React, Next UI, Tailwind CSS	Bachelor's degree in Computer Science or related field
Training & Support	Minimum 2 years of experience in developer training and/or application support application troubleshooting skills - Clear communication for documentation and support	Bachelor's degree in IT, Computer Science, or related field

10.3 Required Documentation

- Company registration and tax documents
- Team member CVs and certifications
- Portfolio of relevant projects

11. EVALUATION CRITERIA

11.1 Technical Evaluation

- Understanding of requirements and technical approach
- Team qualifications and relevant experience
- Technical architecture and methodology

11.2 Financial Evaluation (100%)

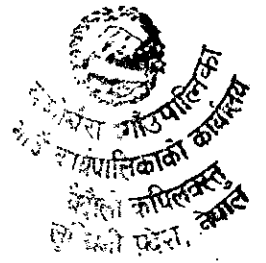
- Cost competitiveness and value for money
- Payment terms flexibility
- Additional value propositions

12. TERMS AND CONDITIONS

12.1 Intellectual Property Rights

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- Complete source code ownership to Municipality
- All developed modules and components become municipality property

12.2 Warranty and Support

- 1-year support from final delivery
- Free bug fixes and minor enhancements during warranty
- Knowledge transfer and training sessions
- Remote support availability
- System maintenance and updates

12.3 Legal Framework

- Contract governed by laws of Nepal
- Dispute resolution through negotiation and mediation
- Force majeure considerations
- Confidentiality and non-disclosure requirements
- Compliance with Public Procurement Act, 2063

13. SUBMISSION REQUIREMENTS

13.1 Proposal Components

1. Technical Proposal
 - o Understanding of requirements
 - o Technical approach and architecture
 - o Development methodology
 - o Project timeline and milestones
 - o Team composition and roles
2. Financial Proposal
 - o Cover letter with Quotation
3. Company Portfolio
 - o Company profile

This Terms of Reference is prepared in accordance with the Public Procurement Act, 2063 (2007) and Public Procurement Regulations, 2064 (2008) of Nepal. All bidders must comply with the provisions of these acts and regulations.

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