Tender For

Web Based ERP Solution

Developments

&

Implementation
(No. of Pages – 26)

Maharashtra State Seeds Corporation Limited

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e-Tender for Web-Based ERP Solutions (Development and Implementation)

Date: January 07, 2025

e-tender (on mahatenders.gov.in) and Sealed tenders are invited for the development and implementation of Web-Based ERP Solutions for integrated MIS generation for all offices of Maharashtra State Seeds Corporation, Akola (referred to as **Mahabeej** hereafter).

The tender document is divided into three parts:

- **Part A**: Contains all the terms, conditions, and other details.
- **Part B**: Lists the necessary requirements that must be completely fulfilled, along with photocopies of the specified documents.
- **BOQ**: Contains total cost for the Web-Based ERP Solutions, which must be quoted in Indian Rupees and not in terms of man-months or per faculty week, etc. It should include the project proposal and other details as indicated in the BOQ.

The tender document must be fully completed, signed on each page, and submitted along with all necessary requisites. Incomplete submissions will be rejected without further communication.

- The documents for **Part A** and **Part B**, should be sealed in one envelope labelled "Tender Part A & Part B."

Envelope should be labelled "Tender for Web-Based ERP Solutions" and submitted to:

Company Secretary (CS) I/C Computerization
Maharashtra State Seeds Corporation
"Mahabeej Bhavan"
Krishi Nagar, Akola 444 104
(M.S.), India

The deadline for submission is **Friday, February 7, 2025, by 06:00 pm.** If possible, the technical bid will be opened on the same day or *10/02/2025 11.00 am* at the same location. If any change in opening dates for technical we will inform bidder via email. The bidder may be required to give Demonstration of proposed/existing software before MSSCL Committee.

- **Parts A and B will be included in the Technical Bid.**
- **The BOQ will be submitted on Mahatenders.gov.in.**

Regd. Office: "Mahabeej Bhavan", Krishi Nagar, Akola 444 104 (M.S.), India
Phone: (0724)-2455093, 2542060, Mob. No. 7588607734, website : Mahabeej.com, E-Mail : edp@mahabeej.com

Important Notes:

1. Conditional offers will not be accepted and are liable to be rejected.
2. Canvassing or attempting to influence the process in any form is strictly prohibited and will result in disqualification from further bidding.
3. The price bid will be opened only for tenders that are technically eligible after scrutiny of the tender documents and evaluation of the presentation by the bidder.

PART-A (General Terms and Conditions)

1. **Definitions**:

    The following terms shall have the meanings assigned to them as specified in this section throughout the tender document.

    1.1 **MAHABEEJ**:

    Maharashtra State Seeds Corporation, Akola, a company registered under the Companies Act, 1956, with its registered office at Krishi Nagar, Near N.H. No. 6, Akola, which intends to implement this project in its offices.

    1.2 **DEVELOPER/BIDDER**:

    The entity registered for the specified type of business that intends to participate in this tender, seek the order, and execute it.

    1.3 **H.O.**:

    The head office of MAHABEEJ, located in Akola.

    1.4 **Regional Offices (ROs)**:

    The regional offices of MAHABEEJ are located at the following locations and are considered part of this project. Additional regional offices may be added in the future.

    1. Regional Office, Shioni, Dist. Akola
    2. Regional Office, Jalgaon
    3. Regional Office, Jalna
    4. Regional Office, Pune
    5. Regional Office, Nagpur
    6. Regional Office, Parbhani
    7. Regional Office, Konkan (Thane)

8. Regional Office, Indore, M.P. (Out-of-state office)
9. Regional Office, Gandhinagar, Gujarat (Out-of-state office)
10. Regional Office, Kurnool, A.P. (Out-of-state office)
11. Regional Office, Raipur, Chhattisgarh (Out-of-state office)

1.5 District Offices (DOs):

The district offices of MAHABEEJ are currently located at 26 district headquarters in Maharashtra State and may expand in the future.

1.6 Completion Stages or Phases

Any step or phase of this project, as outlined in **Section 4**, is considered complete when all activities specified for that step or phase are fully accomplished. This includes testing and verification to the satisfaction of MAHABEEJ, with the approved activities carried out either jointly or independently by the DEVELOPER and MAHABEEJ.

1.7 Seed Processing Plants and Factory Offices

Currently, MAHABEEJ operates 30 seed processing plants, including rented facilities, and may expand in the future.

Table – 1 The details of the Technical Bid are as under	
Sr. No.	**Parameters**
1	Form Fees Rs. 590/- (with GST) to be paid online
2	EMD to be paid online
3	Acceptance of MSSCL Terms & Conditions
4	PAN/GST/Sales Tax No. (Xerox Copy)
5	Place of working
6	Turn Over (Rs. 50 LAKHS) Audited Financial Statement along with ITR returns should be enclosed (YEARS 2022-2023, 2023-2024)
7	Past work experience with MAHABEEJ

8	Previous experience of similar Agri. Input ERP project, if any
9	Recommended hardware details
10	Manpower and infrastructure details
11	**SECTION - II (PART - A)** Digitally singed for online submission and duly signed for physical submission.
12	**SECTION - II (PART - B)** Digitally singed for online submission and duly signed for physical submission.
13	The date on which bidder wishes to present demonstration of proposed/existing software (from 18/02/2025 to 28/02/2025)
14	Whether Multiple Proposal is submitted?
15	ISO 9001, 27001, CMMI certifications if available
16	Proposed AMC rate after expiry of mandatory AMC periods of two years.

2. Scope of this Project

This project encompasses the design, development, implementation, and training of application software tailored to the business processes of MAHABEEJ as detailed in **Sections 4 and 6**.

It includes providing support and rectifying any software bugs, flaws, or operational malfunctions reported by MAHABEEJ for up to two years after commissioning. Additionally, the project involves recommending the procurement of computer and networking hardware, specifying configurations, sources, and tentative costs. It also includes recommending the procurement of operating system software and its source to meet the requirements outlined in **Section 5**.

3. Deliverables

The deliverables for this project include software, codes, libraries, executables, and all corresponding documentation. This encompasses training manuals, setup guides, and any other required documents. These deliverables shall be provided in electronic media as well as in two printed sets.

Deliverable Type	Descriptions	Format
Software	Complete System ERP	Executable, Setups, Source code etc.
	Developments details	Like IDE, Server, Webserver, Database, APIs or libraries etc.
Documents	Users Manuals, Admin Manual, Setup guidelines.	PDF and 2 printed copies.
Training	Training manual	PDF and videos

Users Manuals: Provide training to users for day-to-day operations, including data entry, transaction processing, and printing.

Admin Manuals: Provide training to MAHABEEJ administrators on system installation, maintenance, expansions, tuning, backup, recovery & trouble shooting.

3.1 Existing Web-Based Customized ERP & additional requirements

Since April 1, 2017, we have been operating a live web-based ERP system hosted on two cloud servers at ESDS Nasik: one dedicated to data entry and the other to reporting. This ERP system supports various daily activities, including planning and the preparation of balance sheets. To date, we have created over **500 user** accounts. During peak season, approximately **150 users** log in daily from various locations across India via broadband connections. We require a new system capable of accommodating a higher volume of users and activities.

The list given below explains the existing functionalities of ERP as well as additional requirement that should be fulfilled and developed in the new ERP.

Module	Existing Functionality	Additional Requirements
System Administration	Application Management, Process Analysis, Customization, System Configurations, Application Configurations, Data Entry Status, Reports	**Searching: records for updating** Dashboards.
Configurations	Application Setup, Crop Catalogue (Master), Production Setup, Processing Setup, Packaging Setup, Sales Setup, Report	**Searching: records for updating**
Production	Production Configuration, Planning, Allocation, Tracking, Production Reports, Grower Master Data, Organizers Master Data, Distribution Slip, Payments, Movement Order, Advances from Growers, Additional Charges Definition, Foundation Seed and Certified Seed Planning, Reports	**Mobile App** **SATHI (portal) API integrations** API access from the SATHI (Seeds Authenticity Traceability and Holistic Inventory) Ministry of Agriculture Govt. Of India portal. Dashboards.

		Planning module
		Input/Login window for Growers
Processing	Processing Configuration, Intake, Individual Processing Jobs, Blending, Processing Jobs, STL Results, Release Order, Reports	**SATHI (portal) API integrations**
		SATHI (Seeds Authenticity Traceability and Holistic Inventory) Ministry of Agriculture Govt. Of India portal.
		Dashboards.
Accounting	Definition, Voucher Entry, Ledger Search, Voucher Search, Credit Note, Bank Reconciliation, Accounting Reports, Purchase Return Debit Note, Sub Account Reports, Reports	Dashboards.
		Automatic disposal of tender for selling remaining seeds, non-seed items, low-quality seeds, and failed seeds.
		Automation of similar types of payments, including payments of subsidies and bonus to large number of growers in a single transaction.
		GST-Billing Module
		Automatic Bank Reconciliation.
		Inter Unit Match Report
		IRN Generation
		TDS/TCS Deduction Report
		RTGS Payment Detailed

		Discount Calculation Opening Balances through Excel Migration of old data to new data – 31 March 25
Inventory	Inventory Configuration, Receipts, New Receipt, Issues, New Issue, Physical Inventory, Seed Conversion, Stock Movement, Merge Lots, Purchase Order Receipt, Seed Return, Reports	Dashboards.
Purchases	Purchase Configuration, Supplier Management, Purchase Requisition, Purchase Quotation, Purchase Order, Purchase Order Search, Purchase Invoice, PM Conversion, Purchase Returns, Reports	Dashboards.
Sales	Sales Configuration, Customer Master Data, Price Schemes, Sales Transaction Record (STR), Foundation Seed Pricing, Sales Plan, Purchase Order Receipt (POR), Delivery Order (DO), Movement Order (MO), Dealer-to-Dealer Stock Transfer, Discounts, Schemes, Government Schemes, Reports	Dashboards. Planning module Input/Login window for Dealers Tracking of sales with dealers, potentially integrated with a mobile app or other software
Dispatch	Foundation Seed Dispatch Control (FSDC), Sales Invoice, Sales Return, Material Transfer Note (MTN), Movement Order, Sales Return Expected (SR Expected), Reports	Dashboards. Reports required for marketing activities. Scheme sales reports. Age-wise recovery reports. Total sales reports.

Quality	Quality Configuration, Sample Submission, Sample Registration, Results Entry, Delete Samples, Publish Results, Lot History, Lot Status, Seed Analysis Report, Reports	Dashboards.
Administration	Employee Management (User Creations, transfer, location assignments Only), Reports	Dashboards.
In Each module	-	Transportation, tracking, and payment module.
		Auto WhatsApp Massage
		Displaying Proper Error Messaging

Technical Details of Existing Web Based ERP:

- **Software:** Java, JSP, XML, JavaScript, Tomcat 7, MySQL 4, Windows Server 2019 R2
- **Hardware:** Two cloud-based servers hosted at ESDS, Nasik
- **Network:** Three VPN connections for server access with all users connecting via URLs

3.2 The developer is required to develop and implement a new ERP system based on a well-recognized platform such as Windows 365, SAP, Oracle, or similar. However, the Management and Technical team of Mahabeej reserves the right to select the appropriate platform for the development of the new ERP system. The price bids of the parties selected by MAHABEEJ shall be opened accordingly.

This new ERP should have the same interface and functionalities provided in existing ERP for the convenience of employees who are already well trained in existing ERP.

3.4 **Data Dictionary, Data Flow Diagram**

This should include a dictionary of all data objects, their inter-relations, and data flow diagrams or ER diagrams that align with both the existing system and the additional requirements.

3.5 User Document

This document should provide operational procedures for users at various levels. It should serve as both a user manual, written in simple language for ease of learning, and as a reference guide for day-to-day operations. Additionally, it should include explanations for various error messages and troubleshooting solutions.

3.6 Installation Document

This document should detail the hardware requirements, operating system software specifications, web browser specifications, and configuration details. It should also outline the installation procedure, both for initial setup and during system expansions.

3.7 Maintenance Document

This document should include administrative procedures for daily maintenance tasks, such as data backup and restoration, as well as the creation, deletion, or modification of entities.

3.8 Software Description Document

This document should provide a comprehensive explanation of the software's source code, procedures, and their interrelationships and placements. It should also include a complete list of source files, libraries, third-party APIs, object files, and executable files.

3.9 Software Source Code

This document should contain the fully tested source code, complete with directives, meaningful comments, and notes to assist with future expansion, modification, and upgrades. The source code must be complete and capable of being recompiled to generate executable files at the installation site. Any intellectual property rights related to the software shall remain with MAHABEEJ.

3.10 Compiled Executables (if required)

This software shall include a set of compiled executables, accompanied by a user-friendly installation procedure. The installation package shall be provided in electronic media format, including setup files, backup, restore utilities, and other necessary components.

4. Project Implementation Phases

The project shall be executed in three phases, as outlined below.

4.1 Phase I (Timeline: 6 months from the date of order)

The first phase of the project will involve the complete data entry in the software as a pilot run at any three locations of Mahabeej.

The implementation will focus on databases, data entry, transaction entry, and the printing modules, which will operate independently at the district office, regional office, head office and processing plants, following these steps:

1. **New Development**: Develop a complete new system or from the existing Web-Based ERP, incorporating additional requirements to align with the business processes (**Section 6**) and fulfilling the requirements outlined in **Section 5**. This system must be approved by MAHABEEJ.
2. **System Demonstration**: Present the system model based on the developments in Step 1 and secure approval from MAHABEEJ. The demonstration should be conducted at MAHABEEJ's Head Office in Akola. If additional hardware is required, the Developer must notify MAHABEEJ beforehand to arrange for the necessary equipment.
3. **Hardware and Software Recommendations**: The Developer will provide recommendations for the procurement of hardware, operating system software, and web browsers (with versions) required for Phase I implementation. Detailed technical specifications, sources, and tentative costs should be provided.
4. **Procurement**: MAHABEEJ will procure the recommended hardware and software from the open market. MAHABEEJ is not obligated to purchase from the recommended sources and may choose any supplier.
5. **Hardware/Software Installation**: The installation of hardware, operating system software, and web browsers at the Head Office, regional offices, , district offices and processing plants will be coordinated by the Developer. The Developer will ensure final configuration and tuning of the hardware/operating system software to facilitate the implementation of the application software and ensure the smooth functioning of the entire project.
6. **Software Implementation**: Implement the application software for databases, data entry, transaction entry, and printing at the Head Office (Akola), Regional Office (Shioni), District Office (Shioni) and processing plant. The Developer is responsible for providing the necessary user and installation documentation for this process.

7. **Testing and Approval**: Conduct testing of the installation and documentation (software and user documents) and obtain approval from MAHABEEJ. Any necessary fine-tuning will be carried out.
8. **Deliverables**: Supply all other deliverables and obtain MAHABEEJ's approval for their accuracy and completeness.
9. **User Training**: Provide training to users for day-to-day operations, including data entry, transaction processing, and printing.
10. **Administrator Training**: Provide training to administrators on system installation, maintenance, expansions, tuning, backup, and recovery.
11. **Plants/DOs/Labs**: Focus on locations where the majority of data related to seed production, processing, marketing, and finance is generated and captured.
12. **Report Consolidation**: Consolidate reports within the software, including trial balance consolidation, ledger consolidation, purchase and sales reports, processing reports, and raw seed arrival data.
13. **Hardware Compatibility**: Ensure that the existing hardware platform can be used with the ERP solution software. If new hardware is required, it will be procured after the ERP solution is ready for execution in Phase III.
14. **Bank Integration**: Integrate the system with banks for banking transactions, including cash collection and payments.

4.2 Phase II (Timeline: 3 months from the completion of Phase I)

Phase II will focus on the implementation of the MIS report generation and decision support system, which will operate independently at the district office, regional office, head office and processing plant. The following steps will be undertaken:

1. **Application Software Implementation**: Implement the application software across the Head Office, regional offices, district offices, and seed processing plants to facilitate the generation of MIS reports. This implementation will include pre-designed reports based on the existing system and provide users with the flexibility to create customized reports as needed.
2. **Testing and Approval**: Test the installation as per the tender documents or final specifications and user documentation. The system will be submitted for approval from MAHABEEJ, followed by any necessary fine-tuning.
3. **Deliverables**: Provide all required deliverables and secure approval from MAHABEEJ for their accuracy and completeness.
4. **User Training**: Conduct training for users on the day-to-day operations of the system.
5. **Customization and Exporting**: The system will allow users to customize reports as per their requirements, with the ability to generate and export reports in Excel or PDF format.

4.3 Phase III (Timeline: 3 months from the completion of Phase II)

Phase III involves the seamless operation of the fully implemented software across all locations, including district offices, regional offices, head office and plants. Any necessary changes during this phase will be promptly implemented without delay. The following steps will be executed:

1. **Hardware/Software Installation and Interfacing**: Install and interface the necessary hardware and software components required for networking and interconnectivity, aimed at enhancing the speed and performance of the newly developed software to facilitate faster data access.

2. **Optimization of Reports (MIS)**: Optimize the MIS reports based on insights gained from the usage and performance of the system in Phase I and II.

3. **System Testing**: Conduct comprehensive testing of the complete software at all locations, in accordance with the contract documents and the submitted software specifications. The system must be approved by MAHABEEJ.

4. **Contingency Plan Testing**: Test the contingency plan for addressing network failure scenarios and secure approval from MAHABEEJ.

5. **Security Testing**: Test security features such as access control, modification rights, encryption, etc., and obtain approval from MAHABEEJ.

6. **Backup/Restores/Troubleshooting**: Perform daily backups, enable manual backup and restore operations, and address troubleshooting needs as they arise

7. **Installation of OS and Application Software**: Install the operating system and application software at all remaining regional and district offices. Perform functionality testing, obtain approval from MAHABEEJ, and make any necessary adjustments.

8. **Integrated System Testing**: Conduct testing of the integrated system on the network, ensuring the contingency plan is validated for network failure scenarios.

9. **Delivery of Updated Deliverables**: Provide updated deliverables, including any necessary corrections or errata, and secure approval from MAHABEEJ for their accuracy and completeness.

10. **Documentation and Software Updates**: Supply modified/updated documentation in two physical sets along with e-media, and also provide software on e-media versions.

11. **User Training**: Provide comprehensive training to users for day-to-day operations of the system.

12. **Post-Implementation Support**: If, at any time during the contract period or within two years of the contract's completion, it is determined that the deployed software modules do not meet the requirements, the Developer will address the issues within one month (or a mutually agreed period, depending on the extent of the problem). The cost of rewriting the program will not be paid. (This includes a two-year free AMC; the two year starts after completion of Phase-III.)

5. Requirements

The software analysis, design, development, installation, testing, and training for the computerization of operations at various levels within MAHABEEJ will be conducted in alignment with the business process outlined in Section 6 and will fulfil the following requirements:

5.1 Common Database System: A unified and consistent database system shall be implemented, ensuring that information is accessible from all MAHABEEJ offices, regardless of the network connectivity status (online or offline) during the access time.

5.2 Independent Office Functionality: Each office shall be capable of functioning independently, irrespective of network link availability with other offices.

5.3 Information Accessibility: Information will be available and accessible at each office of MAHABEEJ, updated to reflect the status at the end of the previous business day, irrespective of network link status at the time of access.

5.4 Information Update Capability: It will be possible to update the information at any time, provided a network link is established.

5.5 Security Requirements: The following security measures will be implemented:

- **5.5.1 Data Access:** Rights related to data creation, modification, and access shall be defined for individual users, as well as based on user cadre. User rights will override cadre rights. A hierarchical structure for administrators will be implemented, allowing higher-level administrators to define rights for lower-level administrators.
- **5.5.2 Data Security:** Data backup and restoration shall be facilitated on modern data storage devices (e.g., external HDDs, pen drives, SSD cards) or other logical drives at each office, with the capability to perform backups over the network at the Head Office (H.O.), Akola.

- **5.5.3 Virus Protection:** Multiple methods will be incorporated to safeguard the system against viruses, such as firewalls at WAN interfaces, diskless workstations, and non-standard data transfer formats via media.
- **5.5.4 Activity Monitoring:** The system shall provide activity monitoring features, including logs for login time, usage time, security modifications, and data modifications.

5.6 Data Entry Modules :

The following features will be included in all data entry modules:

- **5.6.1 Multi-User Data Entry:** Online multi-user data entry and printing in the prescribed format shall be possible at the point of transaction activity.
- **5.6.2 Remote Online Data Entry:** Remote online data entry will be possible using handheld/mobile data acquisition devices, with transaction slip printing via an attached micro printer. Data can be transferred periodically via mobile/internet or USB connection. This will facilitate Agricultural Field Officers (AFOs) in booking growers at their files/villages.
- **5.6.3 Data Validation:** The system shall validate data during entry as per the standard validation procedures as below: Validations in a web-based ERP system are crucial to ensure data integrity, accuracy, and security. Here are the types of validations typically required:

  1. **Data Type Validation**: Ensures that the data entered matches the expected data type (e.g., integers, strings, dates).
  2. **Mandatory Field Validation**: Checks that all required fields are filled in before submission.
  3. **Format Validation**: Ensures that the data follows a specific format (e.g., email addresses, phone numbers).
  4. **Range Validation**: Verifies that numerical inputs fall within a specified range.
  5. **Unique Constraint Validation**: Ensures that certain fields contain unique values (e.g., usernames, product codes).
  6. **Referential Integrity Validation**: Checks that relationships between tables are maintained, such as foreign key constraints.
  7. **Length Validation**: Ensures that the data entered does not exceed or fall short of a specified length.
  8. **Consistency Validation**: Ensures that the data entered is consistent across the system (e.g., matching passwords, corresponding dates).
  9. **Business Rule Validation**: Checks that the data complies with specific business rules or logic (e.g., discount percentages not exceeding a certain value).

10. **Authentication and Authorization Validation**: Ensures that users are authenticated and have the necessary permissions to perform certain actions.
11. **Cross-Field Validation**: Checks that the combination of values in multiple fields is valid (e.g., start date is before end date).
12. **File Upload Validation**: Ensures that uploaded files meet specific criteria, such as file type, size, and virus-free status.
13. **Concurrency Validation**: Ensures that data is not overwritten when multiple users are accessing the same record simultaneously.
14. **Error Handling Validation**: Ensures that errors are properly captured and informative error messages are displayed to users.

Implementing these validations helps maintain the reliability and robustness of the ERP system, ensuring that it operates smoothly and effectively.

- **5.6.4 On-Line Help:** The system should provide case-sensitive online help during data entry for invalid data, error indications, and guidance for corrective actions.
- **5.6.5 Data Entry Efficiency:** Data entry modules shall be designed for optimal efficiency, possibly utilizing a non-GUI environment for improved performance.
- **5.6.6 Bar Code/RFID Integration/QR Code:** Bar code/QR code and RFID systems shall be implemented wherever feasible to capture data.
- **5.6.7 Voice Guidelines:** Stored voice guidelines will be available if multimedia hardware is installed.

5.7 Decision Support System & MIS Report Generation

- **5.7.1 Graphical User Interface (GUI):** The system will include a GUI for report generation and analysis, with multitasking capability.
- **5.7.2 Report Display and Export:** The system will have the capability to display, print, or export reports in various formats (e.g., PDF, Excel, Word). This includes both full and partial standard MIS reports, which can be presented as outlined documents or based on the existing formats of the web-based ERP system
- **5.7.3 Custom MIS Reports:** Users will be able to generate custom MIS reports using the information available in the database with standard query language (SQL). Templates for SQL report generation will be provided.
- **5.7.4 Enterprise-Wide Information Search:** The system shall allow searching for information at the enterprise level across the entire database.
- **5.7.5 Data Auditing:** The system should automatically audit data based on exception search conditions. Users will be able to modify such conditions.

- **5.7.6 Multi-Language Report Generation:** The system will support printing correspondence, letters, and reports in Marathi and, if needed, other regional languages using standard fonts.
- **5.7.7 Data Analysis Tool:** The system should include a tool to analyse up to 10 years of data using standard statistical functions.
- **5.7.8 Offline Data Post-10 Years:** The system should be capable of providing offline data after the completion of 10 years.

5.8 Environmental Suitability: The system shall be capable of operating in environments that are not air-conditioned or dust-controlled.

5.9 Data Update Frequency: Information reported will be updated to reflect the status as of the end of the previous business day.

5.10 Messaging System: An in-built messaging system will be provided to create, edit, store, and transfer messages among users across all MAHABEEJ offices. This will include integration with WhatsApp and A2P (Application-to-Person) SMS.

5.12 Material Traceability: The system will be able to trace materials with respect to the grower who produced them and the batch identity of the parent seed.

5.13 Database Scalability: The database and its structure must be scalable without affecting its functionality.

5.14 Complete Data Log System: A complete data log system will track data entry, modification, deletion, and updates, including timestamps and user identification for each action.

6. Business Process:

The following business process is executed for every type of seed. The timing or phase of the process depends on the type of seed, its variety, and the seasons it corresponds to, such as Kharif, Rabbi, or summer. Certain seeds, like vegetable seeds, do not belong to any specific season and are produced continuously throughout the year.

Process Steps:

1. **Estimate Market Plan:** Develop a market plan for the next five years (current year + 4) and calculate the requirement for foundation seed (current year + 3), breeder seed (current year + 2), and nucleus seed (current year + 1). Reserve these seeds with universities accordingly.
2. **Collect Information:** Gather information on the availability of foundation seed from agricultural universities, other agencies, and in-house research.

3. **Calculate Requirements:** Determine the requirement for foundation seed for the current year.
4. **Prepare Production Plan:** Develop a production plan and distribute it regionally based on geographical information and past experiences.
5. **Book Growers:** Reserve growers for seed production, considering their past performance.
6. **Plan Material Movement:** Develop a plan for balancing foundation seed at the district level according to the production plan and growers' bookings.
7. **Plan Material Movement:** Create a detailed material movement plan at the taluka/district level considering growers' bookings.
8. **Issue Movement Orders:** Generate material movement orders based on movement costs and other limitations using operational research techniques.
9. **Sell Foundation Seed:** Distribute foundation seed to booked growers.
10. **Invoice Growers:** Bill growers considering advance payments, previous account status, and timely decisions.
11. **Collect Cash:** Gather cash from growers through bank challans, cash receipts, account adjustments, or credit.
12. **Issue Foundation Seed:** Distribute foundation seed to growers as per cash collections.
13. **Quality Evaluation:** Conduct quality evaluation of raw seed samples before processing them in the plant.
14. **Quality Analysis:** Perform quality analysis based on results from quality revaluation of raw seed samples from all geographical areas.
15. **Register Plots:** Register growers' plots with MAHABEEJ at the Seed Certification Agency (SCA) or with MAHABEEJ itself.
16. **Conduct Inspections:** Inspect plots by MAHABEEJ and take corrective actions as needed.
17. **SCA Inspection:** Undergo inspection by SCA and accept or reject the plot.
18. **Estimate Yield:** Estimate crop yield during growth by AFO.
19. **Receive Raw Seed:** Receive raw seed directly at the plant or through intermediate stages.
20. **Notify Growers:** Inform growers about their raw seed processing schedule.
21. **Move Raw Seed:** Transport raw seed from plant godown to various processing units (unit 1, unit 2, unit 3, etc.).
22. **Central Purchase and Distribution:** Manage central purchase and distribution of materials required for processing plants, including inventory control and balancing according to processing schedules of various plants. Plants are linked to various district offices.
23. **Transfer Seed:** Convert raw seed to certified/foundation seed or categorize it as failed seed based on processing results.
24. **Inform Growers:** Notify growers about the processing results.
25. **Auction Failed Seed:** Conduct an auction sale of failed seed.
26. **Book Certified Seed:** Accept bookings for certified seed from dealers.

27. **Plan Material Movement:** Develop a material movement plan for certified seed based on marketing requirements and operational research techniques.
28. **Sell Certified Seed:** Distribute certified seed to dealers as per booking priority on cash or credit.
29. **Collect Cash:** Collect cash from dealers for credit sales.
30. **Return Unsold Seed:** Receive unsold certified seed back from dealers if decided by the management policy.
31. **Transfer Certified Seed:** Move certified seed to carry-over seed after expiry. Certain varieties undergo carry-over processing for use next year, while others are auctioned.
32. **Revalidate Seed:** Transfer carry-over seed to the plant for processing similar to raw seed processing for revalidation.
33. **Performance Analysis:** Analyse the performance of AFOs based on production and marketing activities carried out by them.

7. Payment Schedule:

Mile stone	After completion of phase & step	Part payment (% of total payment)	Durations in Months
1.	Placing order	NIL	
2.	Phase – I	30%	6 Month
3.	Phase – II	30%	3 Month
4.	Phase – III	30%	3 Month

Payments will be released in parts upon the successful completion of the specified project milestones as detailed above.

A balance of 10% of the total payment will be withheld as a performance guarantee for a period of two years following the completion of Phase III. This amount can be released to the developer upon submission of a bank guarantee in favour of MAHABEEJ for an equivalent sum drawn on a Nationalized Bank.

8. Software License:

The developer must provide proof of having the necessary licenses for the development and supply of application software for the relevant operating system and other software required for the project's development.

9. Penalty:

The developer must complete the project within the timeframe specified in **Section 7** or as mutually agreed between MAHABEEJ & DEVELOPER/BIDDER, if any milestone is delayed beyond the period specified in Section 7 or as mutually agreed between

MAHABEEJ & DEVELOPER/BIDDER, a penalty of 18% of the total project cost quoted by the developer will be applied for per year. This penalty will be deducted from subsequent payments to the developer. If the penalty exceeds the amount of the bank guarantee provided by the developer, MAHABEEJ reserves the right to terminate the contract, close the project, and forfeit the bank guarantee.

If any bugs are reported by MAHABEEJ within two years of the completion of all phases and steps (i.e., after the completion of Step 1 to 5 of Phase III), the developer must rectify them within one month, or within a mutually agreed period, from the date of reporting. If the developer fails to do so, a penalty of Rs. 1000/- per day of delay will be applied and deducted from the final payment and bank guarantee.

10. Grace Period:

The last day of any milestone is determined by the number of days quoted from the previous milestone, including all calendar days and holidays. If the last day falls on a non-business day for MAHABEEJ, the subsequent business day will be considered the last day of the milestone.

The developer should account for time required for testing, verification, correction, and approval by MAHABEEJ when quoting costs. The time taken by MAHABEEJ for testing and verification will be treated as a grace period and not counted towards penalty. However, time taken by the developer for modifications after validation/revalidation will be considered for penalty purposes. No other grace period will be granted under any circumstances for milestone completion.

11. EMD along with Tender Submission:

An Earnest Money Deposit (EMD) of **Rs. 50,000/-** should be paid online during uploading the e-tenders on the e-tendering portal of Govt. of Maharashtra www.mahatenders.gov.in . The scanned copies of PRN number received from bank against the online payment of EMD must be uploaded during online submission and the copy of the same must be submitted in the technical bid in physical form. The EMD will be returned after acceptance or rejection of the tender document and upon placing a firm order with the selected developer.

12. Security Deposit:

The successful tenderer must provide a bank guarantee from a nationalized bank equal to 10% of the project cost as a security deposit. This guarantee must be submitted to MAHABEEJ within 15 days of the firm order being issued. If the developer fails to provide this, the order will be automatically cancelled and the EMD forfeited. The order may then be placed with another tenderer or in the open market, with any excess expenditure incurred

by MAHABEEJ being recovered from the original tenderer. The bank guarantee will be released upon completion of Phase III.

13. Validity of the Project Development Cost Quoted:

The total cost for application software development, deployment, and training quoted in the BOQ will be valid until **January 31, 2027.**

14. Mode of Payment:

Payments will be made after receiving an invoice from the developer, aligned with the project development phase and conditions. Payments will be made via RTGS. Any additional charges, such as bank charges, will be borne by the developer. Payments via demand draft will also be considered if the developer agrees to bear the associated bank charges.

15. Taxes and Duties:

The amount quoted by the developer must include all taxes, levies, duties, service charges, and any other expenses required for project completion. Any variations in taxes or duties during the project will not affect the quoted rates. No additional payments will be made for travel or other activities undertaken to execute the contract.

16. Jurisdiction:

Any disputes arising will be subject to the jurisdiction of the Akola court, irrespective of the contracted party's registered location or any MAHABEEJ location.

17. Arbitrator:

It is hereby agreed by the parties that any dispute arising out of or in connection with this Agreement shall be settled under the Indian Arbitration and Conciliation Act 1996 as amended from time to time. The Arbitration shall be conducted by a "Sole Arbitrator" appointed by Managing Director, M.S.S.C. Ltd., Akola who shall be independent, qualified and competent as per the law. The award/decision of the Sole Arbitrator shall be final and binding on both the parties. The place of the Arbitration shall be Head Office of the company at Mahabeej Bhavan, Akola. The language of the Arbitration shall be in English.

18. Agreement:

The developer must sign a contract agreement accepting the order and all terms and conditions on a Rs. 500/- bond paper, signed by an authorized person. A certificate from a nationalized bank verifying the authorized person's signature must be submitted.

19. General Conditions:

Preference will be given to software companies with experience in implementing software for the seed industry. The company must have a minimum turnover of **Rs. 50 lakhs** for each of the last two years (in software developments), supported by audited profit and loss accounts and balance sheets.
- Organizations may provide **ISO 9001** and **ISO 27001** certifications.
- Organizations may provide **CMMI Maturity Level 3** certifications.
- Mahabeej reserves the right to decide minimum marks required in the evaluation criteria for eligibility. Mahabeej also reserves the right to terminate the tender process at any stage before finalization of contract with successful bidder.

20. Compliance Statement:

The developer must submit a point-wise compliance statement:

Compliance Statement by the Developer: I, the undersigned, accept all the terms and conditions mentioned in the tender document and comply with all points of all sections and subsections of tender document PART-A. I am authorized to represent and bind the party I represent, and I acknowledge acceptance by signing all pages of the tender document.

Place   : _____

Signature   : _____

Date   : _____

Name & Address   : _____

_____

_____

Company Seal

Mobile No.   : _____

Website.   : _____

E-mail.   : _____

Maharashtra State Seeds Corporation Limited

Tender for Web Based ERP Solutions for MSSCL, Akola

PART-B
(*Mandatory*)

1. **Name and address of the tendering party**:
(All communication shall be addressed to following address.)

2. **Name, designation and address of the authorised person:**

3. **EMD:**

   An Earnest Money Deposit (EMD) of **Rs. 50,000/-** should be paid online.
   The PRN_____ (online submitted EMD PRN Number)

4. **Multiple proposals:**
   Have you submitted more than one Bid?
   (Yes/No) _____
   If yes, how many bids have been submitted?

   _____

5. **Manpower details: provide details of Hardware/Software/DBA Engineers and other manpower with details of qualifications. (Separate sheet can be attached with employee code and appointment letters)**

   _____

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6. **Infrastructure details: provide details of Hardware/ Software/ Platforms/Clouds/Stacks available with the bidder. (Separate sheet can be attached.)**

   _____

7. **Income Tax:**
   Permanent Account Number _____
   Photocopy of PAN certified Attached? (Yes/No) _____

8. **GST No.:**
   GST number_____
   Photo copy of GST registration certificate attached? _____

9. **Software licences:**
   List of software licenses required for the project development.

10. **Previous experience of execution of similar ERP project, if any:**
    List of customer along with address of installation. The selection committee of Mahabeej may visit these places to observe the quality of work.

(Attach separate sheet if required.)

Regd. Office: "Mahabeej Bhavan", Krishi Nagar, Akola 444 104 (M.S.), India
Phone: (0724)-2455093, 2542060, Mob. No. 7588607734, website : Mahabeej.com, E-Mail : edp@mahabeej.com

11. **Time schedule for project completion:**
Submit details: Monthly Timeline for project completion.

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(Attach separate sheet if required.)
</div>

12. **Platform/Technology that will be utilized for ERP Development:**
List of Software/ Programming language/Hardware/Server/Database etc.

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(Attach separate sheet if required.)
</div>

13. **Declaration:**

I, the undersigned, on behalf of _____
_____declare that all
the information given here in this tender document and attached sheets is true, correct
and binding on us.

Place : _____   Signature   : _____

Date : _____   Name & Address   : _____

                                                   _____

                               Mobile No.   : _____
Company Seal
                               Website.   : _____

                               E-mail.   : _____

Maharashtra State Seeds Corporation Limited

Schedule of E-tender

Sr. No.	Dates	Date	Time
01	Publishing Date	07.01.2025	11.00 hrs
02	Document Download Start Date	07.01.2025	11.00 hrs
03	Document Download End Date	07.02.2025	18.00 hrs
04	Pre-Bid Meeting Link: https://tinyurl.com/djjs2b2a	21.01.2025	11.00 to 13.00 hrs
05	Document Submission Start Date	07.01.2025	11.00 hrs
06	Document Submission End Date	07.02.2025	18.00 hrs
07	Technical Opening Date (If Possible)	10.02.2025	11.00 hrs
08	Financial Opening Date (If Possible)	01.03.2025	11.00 hrs
09	Demonstration Meeting Date	18.02.2025 to 28.02.2025	11.00 to 17.00 hrs

Maharashtra State Seeds Corporation Limited

Evaluation Criteria: Bidders should ensure submission of supporting documents

Sr. No.	Particulars	Points to be allotted	Max. Marks	Marks (subject to verification by MSSCL	Marks Obtained (to be filled by MSSCL Official after document verification)
1	No. of years of Operation of software co.	1 point per year for above 5years	9		
2	Prior Experience of similar ERP in Agri. Input domain	5 points for each ERP software	10		
3	No. of Qualified Employees / Associates With appointment letters and employee code.	2 point per Software Engineers	16		
		2 points for Hardware Engineers	2		
		2 points for DBA	2		
4	ISO certified 9001, 27001& CMMI	2 point for each certifications	6		
5	Turnover from software business	1 point per 25 Lakhs for above 50 Lakhs	15		
6	Demonstration of proposed/existing software before MSSCL Committee	40 Marks	40		
		Total	**100**		

Mahabeej reserves the right to decide minimum marks required in the evaluation criteria for eligibility. Mahabeej also reserves the right to terminate the tender process at any stage before finalization of contract with successful bidder.