

GOVERNMENT OF ODISHA
ODISHA FOREST DEPARTMENT
SAMBALPUR CIRCLE
OFFICE OF THE DIVISIONAL FOREST OFFICER, REDHAKHOL FOREST DIVISION

REQUEST FOR PROPOSAL (RFP)

**Selection of an Agency for Design, Development, Deployment,
Training and Maintenance of an Integrated
Nursery Management System (Web + Mobile)**
and
**Forest Management System cum GIS Dashboard and Field Mobile
Application**
for Redhakhol Forest Division

Two-Bid System (Technical Bid & Financial Bid)
Procurement on QCBS (Quality & Cost Based Selection)

Tender Reference No.: F & E/RKL/ 017 (OFFLINE)/2026-27
Date of Issue: 04 June 2026

Issued by:
Divisional Forest Officer, Redhakhol Forest Division
At/PO: Redhakhol, Dist: Sambalpur, Odisha
Website: www.redhakholforest.co.in or www.sambalpur.odisha.gov.in or www.odishaforest.in

Sd-/
Divisional Forest Officer
Redhakhol Forest Division

Tender Fact Sheet (Critical Information)

Sl.	Particulars	Details
1	Name of the Work	Design, development, deployment, training and maintenance of an integrated Nursery Management System (web + mobile) and a Forest Management system cum GIS Dashboard and field mobile application for Redhakhhol Forest Division.
2	Tender Reference No.	F & E/RKL/ 017 (OFFLINE)/2026-27
3	Procuring Entity	Divisional Forest Officer, Redhakhhol Forest Division, Odisha Forest Department.
4	Mode of Tender	Two-bid system (Technical + Financial), online/sealed
5	Tender Document Fee	Rs. 1,000/- (non-refundable), payable by DD.
6	Performance Security	3% of the contract value
7	Bid Availability	04.06.2026 (02:00 PM) to 24.06.2026 (05:00 PM)
8	Last Date & Time of Bid Submission	24 th June 2026, up to 17:00 hrs.(up to 5 PM)
9	Date & Time of Bid Opening	25 th June 2026, at 11:00 hrs.
10	Bid Validity	90 days from the last date of bid submission.
11	Project Implementation Period	6 (six) months from the date of work order for development & Go-Live.

Disclaimer

This Request for Proposal (RFP) is issued by the Divisional Forest Officer, Redhakhoh Forest Division (hereinafter the “Procuring Entity” / “Purchaser”) solely to assist prospective bidders in formulating their proposals. It does not purport to contain all the information each bidder may require.

This RFP is neither an agreement nor an offer by the Procuring Entity to the prospective bidders or any other person. The purpose of this RFP is to provide interested parties with information to assist them in preparing and submitting their bids. The Procuring Entity reserves the right to amend, modify, add to or withdraw any of the terms and conditions herein, or to reject any or all bids, without assigning any reason and without any liability whatsoever.

Each bidder shall bear all costs associated with the preparation and submission of its bid. Information provided in this RFP is on a wide-ranging basis and is not exhaustive.

By submitting a bid, the bidder unconditionally accepts the terms, conditions and stipulations of this RFP in their entirety.

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1. Invitation for Bids (Notice Inviting Tender)

The Divisional Forest Officer, Redhakhhol Forest Division, Sambalpur Circle, Odisha, invites sealed/online competitive bids under a two-bid system from eligible, experienced and financially sound software development agencies for the **design, development, deployment, training and maintenance of an Integrated Nursery Management System (web + mobile) and a GIS Dashboard cum field mobile application**, as detailed in this RFP.

1.1 Brief description

The assignment comprises two functionally distinct but interoperable components delivered under a single contract:

1. **Component A — Nursery Management System:** a mobile application with a linked, customisable web portal for bed-wise tracking of seedlings, scheme-wise accounting, activity and health monitoring, geofencing and offline operation.
2. **Component B — GIS Dashboard cum Mobile Application:** a role-based geospatial platform for mapping and managing all divisional assets and infrastructure, asset history sheets, hierarchical task management, offline field operation over orthomosaic base maps, and on-premise AI-assisted analysis.

1.2 Availability of tender document

The tender document (Ref: F & E/RKL/ 017 (OFFLINE)/2026-27

) may be downloaded from the Government e-Procurement portal and/or the divisional website www.redhakhholforest.co.in. Bidders downloading the document must submit the prescribed, non-refundable tender document fee along with the bid.

1.3 Eligibility, validity and security

Only bidders meeting the eligibility criteria at Section 10 may participate. Each bid must be accompanied by the prescribed Bid Security / Bid Security Declaration and remain valid for 180 days from the last date of submission. Conditional, incomplete or late bids are liable to rejection.

2. Introduction & Background

Redhakhol Forest Division, under the Sambalpur Circle of the Odisha Forest Department, manages an extensive network of reserve and protected forests, plantation sites, nurseries, soil & moisture conservation works, forest roads, water bodies, residential quarters and field infrastructure spread across multiple ranges, sections and beats.

Day-to-day forest management generates large volumes of field data — seedling production and dispatch records, plantation journals, asset inventories, infrastructure histories, patrolling and protection records — which are at present maintained largely in manual registers and disparate spreadsheets. This fragmentation limits real-time monitoring, makes survivability and performance analysis difficult, and prevents the Division from leveraging modern geospatial and analytical tools.

Concurrently, the Division has been advancing a broader digital-office and field-technology modernisation programme, including drone-based forest mapping, orthomosaic generation, GIS analytics and on-premise AI. This RFP operationalises two priority elements of that programme through purpose-built, field-first applications.

2.1 Rationale

- Replace manual nursery and asset registers with structured, auditable, bed-wise and asset-wise digital records.
- Enable real-time, role-based monitoring from the Forest Guard up to the DFO, with hierarchical task assignment and accountability.
- Equip field staff with offline-capable mobile tools that work in low- or no-connectivity forest interiors and synchronise when connectivity returns.
- Bring the Division's own high-resolution orthomosaic (GeoTIFF) imagery and forest boundaries directly into the hands of field staff.
- Deploy on-premise, open-source AI to assist staff with natural-language queries and automated analysis of the Division's own data, without sending sensitive data to third-party clouds.
- Build interoperable, standards-based systems that can integrate with future divisional applications.

3. Project Objectives

The objectives of this assignment are to:

1. Deliver a unified Nursery Management System (mobile + linked customisable web portal) providing bed-wise seedling tracking, scheme-wise accounting, activity and health/survivability monitoring, and geofenced data capture.
2. Deliver a GIS Dashboard cum field mobile application providing role-based mapping of all divisional assets and infrastructure, asset-wise history sheets, unique asset identification, forest-boundary awareness, offline operation over orthomosaic base maps, and georestricted data capture.

3. Implement a hierarchical task-management workflow (DFO → ACF → Range Officer → Forester → Forest Guard) comparable to Microsoft Planner / Trello, integrated within the GIS application.
4. Integrate on-premise, open-source large language models (e.g. Qwen, Gemma, Llama family) for natural-language assistance and automated analysis of uploaded divisional data.
5. Ensure full offline capability with reliable, conflict-aware synchronisation, and the ability to host the entire solution on the Division’s own/State server.
6. Provide a modern, intuitive, analytical and accessible user experience, with interoperability for future applications and complete capacity-building of divisional staff.

4. Scope of Work

The successful bidder (“the Agency”) shall deliver an end-to-end solution comprising the two components below, together with all cross-cutting platform, AI, security, hosting, training and support requirements. The scope described is indicative of the minimum expected functionality; the Agency shall propose enhancements consistent with the objectives.

4.1 Solution overview

Component	Primary users	Delivery surfaces
A — Nursery Management System	Nursery in-charge, Forester, Forest Guard, Range Officer, ACF, DFO	Android mobile app (field) + responsive customisable web portal (office Admin Account)
B — GIS Dashboard cum Mobile Application	Forest Guard, Forester, Range Officer, ACF, DFO (and view-only stakeholders)	Android mobile app (field, offline-first) + web GIS dashboard (office/command)
Shared platform services	All of the above	Common authentication/RBAC, on-premise AI engine, sync service, storage, audit & analytics

4.2 Component A — Nursery Management System

A mobile-first application with a linked, customisable web portal to manage the complete nursery lifecycle from seed sowing to seedling dispatch, with full traceability at the level of the individual nursery bed.

4.2.1 Core functional requirements

Ref.	Feature	Description / minimum requirement
A-01	Bed-wise seedling tracking	Maintain a digital register for every nursery and every bed within it: bed ID, dimensions, sowing date, species, seed source/lot, quantity sown, germinated, pricked-out, available, dispatched and culled — with running stock balances per bed and per species.
A-02	Scheme-wise seedling accounting	Tag every batch of seedlings to its funding scheme/head (e.g. CAMPA, Plantation, State Plan, CA against diversion, etc.) so that production,

Ref.	Feature	Description / minimum requirement
		availability and dispatch can be reported scheme-wise and reconciled against scheme targets.
A-03	Role-based user access	Granular RBAC mapped to the forest hierarchy (DFO, ACF, Range Officer, Forester, Forest Guard, Nursery in-charge) with configurable create/read/update/verify/approve rights per module and per nursery.
A-04	Bed-wise activity monitoring	Log and schedule day-to-day nursery operations per bed — watering, weeding, pesticide/fungicide application, manuring, root/shoot pruning, shifting, etc. — with date, dose/quantity, operator, photographs and remarks; generate due/overdue activity alerts.
A-05	Bed-wise health & survivability monitoring	Periodic health assessment per bed (vigour, disease/pest incidence, mortality), automatic computation of germination %, survival % and culling %, with trend charts and threshold-based alerts.
A-06	Geofencing	Define a geofence for each nursery; permit bed-level data capture only when the device is physically within the nursery geofence (with a configurable tolerance), and flag/await approval for out-of-fence entries.
A-07	Linked customisable web portal	A responsive web portal, linked to and sharing data with the mobile app, whose content, branding, menus and private sections are customisable by an administrator (e.g. nursery catalogue, seedling availability, indent/booking, news) — see Clause 4.2.3.
A-08	Offline capture & sync	Full offline data capture (including photographs) when connectivity is absent, with automatic, conflict-aware synchronisation to the server when the network returns — see Clause 4.4.1.
A-09	AI assistance & analysis	Natural-language query and analytical assistance over nursery data using the on-premise open-source AI engine — see Section 6.
A-10	Indents, dispatch & reporting	Raise and approve seedling indents/requisitions, record dispatch against indents with destination plantation/site, and auto-generate statutory and MIS reports (nursery journal, production statement, scheme-wise availability, survival report).

4.2.2 Master data & configurability

- Configurable masters: nurseries, beds, species, schemes, seed sources, activity types, units, dose standards, and user roles — maintainable by an administrator without code changes.
- Species master to support local/vernacular (Odia) and botanical names, with photographs and standard nursery protocols.
- Bulk import/export of master data and registers via CSV/XLSX, and printable QR/bar-code labels for beds for quick scan-based data capture.

4.2.3 Linked customisable website

The web portal linked to the Nursery Management app shall:

- Share a single data source with the mobile app (no duplicate data entry).

- Provide an administrator-driven content management capability to customise pages, banners, menus, the divisional logo/branding, and which datasets are exposed internally.

4.3 Component B — Forest Management System cum GIS Dashboard and Mobile Application

A role-based geospatial platform — a web GIS dashboard for command and analysis plus an offline-first field mobile application — to map, register and monitor all divisional assets and infrastructure, maintain asset history sheets, drive hierarchical task management, and provide AI-assisted analysis over the Division’s own imagery and data.

4.3.1 Core functional requirements

Ref.	Feature	Description / minimum requirement
B-01	Role-based user access	RBAC mapped to the forest hierarchy, controlling which layers, assets, ranges/sections and functions each user may view, edit, verify or approve.
B-02	Asset & infrastructure mapping uploading features	Featuring Maps of all divisional assets and infrastructure — forest roads, soil & moisture conservation (SMC) structures, staff quarters/buildings, water bodies, plantation sites, boundary pillars, watchtowers, nurseries, check-gates, etc. — as point/line/polygon features with structured attributes. (Maps, kmle file shall be uploaded by the concerned admins)
B-03	Data ingestion: KML upload & field capture	Create assets either by uploading KML/KMZ (and GeoJSON/Shapefile) files or by direct field capture on the mobile app (GPS point, track or sketched polygon) with on-site photographs.
B-04	Unique asset ID	Generate a unique, non-repeating identifier for every asset (configurable scheme encoding range/section/asset-type/serial), printable as QR for field scanning and used as the key across the system.
B-05	Asset history sheet	For each asset, store time-stamped, geo-tagged photographs and videos captured at different points in time, forming a chronological “history sheet” (condition, repairs, events) viewable as a timeline.
B-06	Equipment tracking / register	Maintain an equipment register and tracking for each Range Office, Forester and Forest Guard — issue, custody, location, condition, maintenance and return of equipment (e.g. GPS units, cameras, vehicles, tools, arms where applicable).
B-07	Forest boundary awareness	Make reserve/protected forest boundaries, beat/section/range boundaries and compartment boundaries visible to field staff on the map, including real-time “inside/outside boundary” and proximity indication relative to the user’s GPS location.
B-08	Orthomosaic base map	Use the Division’s stitched orthomosaic imagery (GeoTIFF) as a selectable base map that field staff can view (and download for offline use), in addition to standard street/satellite base maps.
B-09	Offline download & operation	Allow field staff to download a defined area (base maps, orthomosaic tiles, boundaries, assets, tasks) to the device for full offline operation, with offline data capture and later synchronisation — see Clause 4.4.1.
B-10	Hierarchical task management	A task workflow akin to Microsoft Planner / Trello flowing DFO → ACF → Range Officer → Forester → Forest Guard — see Clause 4.3.2.

Ref.	Feature	Description / minimum requirement
B-11	Georestriction	Restrict creation/editing of assets and completion of location-bound tasks to within the user's assigned jurisdiction and/or within a defined distance of the target feature; flag out-of-bound actions for approval.
B-12	AI assistant & analytics	On-premise open-source AI that answers staff questions in natural language and produces analysis by reading uploaded divisional data — see Section 6.
B-13	Analytical dashboard	A modern, intuitive command dashboard with maps, charts, KPIs and drill-downs (asset counts/condition by range, task status, plantation coverage, infrastructure health, etc.), exportable as reports.
B-14	Local hosting & interoperability	Capability to be hosted entirely on the Division's own/State server, and to interoperate with future divisional applications through open standards and APIs — see Clause 4.4.2 and Section 5.
B-15	Patrolling Monitoring	Geofenced uploading of activities like foot patrolling and tracking of entire foot patrolling and generation of kml file for foot patrolling, night patrolling, live location tracking, elephant monitoring etc.
B-15	Equipment Registry	Equipment like laptops, computers, lights, UAVs, AC/DC testers etc whenever allotted to individual Staffs or Ranges shall be registered against them
B16	Future Expandability	Future expandability shall be at the core of design including Human Resource Management, Leave applications,

4.3.2 Hierarchical task management (Planner/Trello-style)

The Forest Management cum GIS application shall include an integrated task-management module providing:

- Task creation and assignment cascading through the hierarchy: a DFO/ACF can assign to Range Officers; Range Officers to Foresters; Foresters to Forest Guards — with delegation and re-assignment.
- Board, list, calendar and map views of tasks; statuses (e.g. To-Do, In-Progress, Submitted, Verified, Done), priorities, due dates, checklists, attachments and comments.
- Geo-linked tasks: a task may be attached to a specific asset/location so the assignee navigates to it and submits geo-tagged, time-stamped photographic proof of completion.
- Notifications, reminders and escalation on overdue tasks; a supervisor view of team workload and completion analytics; full offline task viewing and update with later sync.

4.3.3 Geospatial data & standards

- Support standard formats: KML/KMZ, GeoJSON, ESRI Shapefile, GPX, and GeoTIFF / Cloud-Optimized GeoTIFF (COG) for raster/orthomosaic.
- Support OGC services (WMS, WMTS, WFS) for interoperability; maintain coordinate reference systems and on-the-fly reprojection (e.g. EPSG:4326, EPSG:32644/32645 UTM).
- Efficient serving of large orthomosaics via tiling/COG and on-device caching for offline use; measurement (distance/area) and basic geoprocessing on the dashboard.

4.4 Cross-cutting requirements (both components)

4.4.1 Offline operation & synchronisation

- Offline-first design: all field data capture — forms, photographs, videos, GPS tracks, task updates, asset and bed entries — must function with no connectivity.
- On-demand download of a chosen jurisdiction/area (base maps, orthomosaic tiles, boundaries, assets, masters and assigned tasks) to the device for offline use, with storage-size indication and selective purge.
- Automatic background synchronisation when connectivity returns, with conflict detection and resolution rules, delta/queued uploads to conserve bandwidth, and clear sync status (pending/synced/failed) per record.
- Resilient media handling: large photos/videos compressed and queued; resume on interruption; no data loss on app/device restart.

4.4.2 Local / on-premise hosting

- The complete solution — application servers, database, geospatial/tile services, object storage and the AI engine — must be deployable on the Division's own server / State Data Centre / NIC infrastructure, fully on-premise and capable of operating within the divisional LAN without dependence on any external cloud.
- Containerised deployment (e.g. Docker/Compose or equivalent) with documented, repeatable installation; configuration via environment files; no hard dependency on proprietary cloud services.
- Cloud or hybrid deployment may optionally be supported via configuration, but on-premise operation must be the default and fully functional.
- Automated backup/restore, and basic high-availability and disaster-recovery guidance for the on-premise setup.

4.4.3 Interoperability & integration

- Open, documented REST/GraphQL APIs and OGC geospatial services (WMS/WFS/WMTS) so that future divisional applications can consume and contribute data.
- Standard export/import (CSV, XLSX, GeoJSON, KML, GeoTIFF) and webhooks/event hooks for integration; single shared identity/RBAC across both components.
- API documentation (OpenAPI/Swagger) and a data dictionary to be delivered as part of the project.

4.4.4 User experience & accessibility

- A modern, intuitive, user-friendly and analytical interface across web and mobile, optimised for field use (large touch targets, minimal typing, scan/voice-assisted entry, low-light readability).
- Bilingual interface — Odia and English — with the ability to switch language.
- Compliance with GIGW 3.0 and WCAG 2.1 Level AA for the web surfaces; consistent design system across both apps.

- Role-tailored home screens so each user (Forest Guard to DFO) sees the most relevant actions and analytics first.

5. Technical & Architectural Requirements

The Agency shall propose a robust, secure, scalable and maintainable architecture. The following are minimum expectations; the Agency may propose superior, well-justified alternatives in the technical bid.

5.1 Architecture & technology

Layer	Minimum requirement
Mobile application	Native or cross-platform Android application (e.g. Flutter / React Native / Kotlin) optimised for offline-first field use; minimum supported Android version to be stated. iOS optional/future-ready.
Web / dashboard	Responsive web application (e.g. React / Angular / Vue) for the portal and the GIS command dashboard, usable on desktop and tablet.
Backend	Service-oriented/modular backend (e.g. Python FastAPI/Django, Node.js or Java) exposing documented REST/GraphQL APIs.
Database	Spatial-capable RDBMS (e.g. PostgreSQL + PostGIS) for relational and geospatial data; appropriate object storage (e.g. MinIO/S3-compatible) for media and orthomosaics.
Geospatial stack	Open geospatial server/tiling (e.g. GeoServer / MapServer / TiTiler / pg_tileserv) and a modern web map client (e.g. MapLibre GL / Leaflet / OpenLayers); COG-based serving of orthomosaics.
AI engine	On-premise open-source LLM serving (e.g. Ollama / llama.cpp / vLLM) with a retrieval-augmented generation (RAG) layer over divisional data — see Section 6.
Deployment	Containerised (Docker/Compose or equivalent), on-premise-first, with documented install, configuration and upgrade procedures.

5.2 Security & data protection

- Authentication with strong password policy and optional OTP/2FA; encrypted credentials; session and device management; encryption in transit (TLS) and at rest.
- Three-tier or finer role-based access control with a complete, tamper-evident audit trail (who did what, when, where) for all create/update/delete and approval actions.
- Alignment with OWASP secure-coding practices, CERT-In guidelines, and readiness for STQC/security audit; the solution must pass a security/VAPT review prior to Go-Live.
- Data residency within Government/State infrastructure; no divisional or geospatial data to be transmitted to external third parties without written authorisation.
- Where electronic approvals are used, compliance with the Information Technology Act, 2000 (e-sign/DSC) shall be supported.

5.3 Performance, scalability & reliability

- The system shall support the concurrent users of the Division (to be sized by the Agency) with responsive map and dashboard performance on typical office and field devices.

- Efficient handling of large orthomosaics (multi-GB GeoTIFF/COG) and large media volumes; graceful degradation on low-bandwidth links.
- Automated backups, logging/monitoring, and documented recovery procedures.

5.4 Documentation & source code

- Delivery of architecture document, data dictionary, API (OpenAPI) documentation, deployment/operations runbook, administrator and user manuals (Odia/English), and training material.
- **Complete source code, build scripts and configuration to be handed over to the Procuring Entity; IPR as per Section 13.**
- **The entire Source code, build scripts and configuration shall be Intellectual Property of the Division.**

6. AI Integration Requirements (On-Premise, Open-Source)

Both components shall integrate an on-premise AI assistant built on open-source large language models so that staff can query the system in natural language and obtain automated analysis of the Division's own data — without sending data to any external cloud.

6.1 Models & serving

- Use open-source / open-weight model families such as Qwen, Gemma and Llama (and equivalents), served locally via an engine such as Ollama, llama.cpp or vLLM, sized to run on the Division's available/State server hardware (CPU and/or GPU).
- Model-agnostic, configurable design so the model can be changed/upgraded without re-engineering the application.

6.2 Capabilities

- Conversational assistant that answers staff questions about the data and the application (e.g. "which beds have survival below 60%?", "list forest roads needing repair in Badbahal Range", "how many Sal seedlings are available under CAMPA?").
- Retrieval-augmented generation (RAG) grounded in the uploaded/recorded divisional data — nursery registers, asset attributes, history sheets, task records and documents — with source references, so answers reflect actual data rather than generic text.
- Automated analysis and summaries by reading uploaded data: trends, outliers, scheme-wise/range-wise rollups, survivability analysis, asset-condition summaries and natural-language report drafts.
- Bilingual (Odia/English) interaction to the extent supported by the chosen models, with graceful fallback.
- Role-aware responses: the assistant only surfaces data the querying user is authorised to access.

6.3 Privacy & control

- All inference runs on-premise; no divisional data leaves the Government environment for AI processing.
- Administrator controls over model selection, enabling/disabling AI features, and logging of AI queries for audit.

Note: The accuracy of AI-generated analysis depends on data quality and model capability; AI outputs are decision-support aids and shall be clearly labelled as such, not authoritative records.

7. Eligibility Criteria

Bidders must meet ALL of the following minimum eligibility criteria. Documentary evidence must be enclosed with the technical bid; non-compliant bids are liable to rejection. The Procuring Authority may relax certain conditions of the otherwise eligible bidders purely to promote competition and value to the public money.

Sl.	Criterion	Supporting document
1	The bidder shall be a legally registered firm/company/LLP in India, in continuous operation for at least 3 years.	Registration / incorporation certificate
2	Valid GST registration and PAN.	GST & PAN certificates
3	Average annual turnover of at least Rs. 50,00,000 from software/IT services in the last 3 financial years.	Audited financials / CA certificate
4	Experience of having successfully completed software development projects, including at least one mobile + web application and at least one project involving GIS / geospatial functionality.	Work orders + completion/satisfaction certificates
5	Demonstrable capability in offline-capable mobile apps and/or on-premise/open-source AI (LLM) deployment (desirable; to be evidenced).	Project references / case studies
6	The bidder shall not be blacklisted/debarred by any Government/PSU as on the bid date.	Self-declaration (Annexure VI)
7	Adequate technical team (developers, GIS, mobile, AI/ML, QA) and local support capability.	CVs / team profile

8. Instructions to Bidders & Bid Submission

8.1 Two-bid system

Bids shall be submitted in two parts:

- (a) **Technical Bid:** eligibility documents, technical proposal, proposed solution architecture, methodology, team, work plan, relevant experience, and the technical compliance sheet (Annexure IV) — with NO price information.
- (b) **Financial Bid:** priced bid strictly in the prescribed format (Annexure V), covering development and 3-year support/AMC.

Inclusion of any price information in the technical bid shall render the bid liable to rejection.

8.2 Submission

- Each cover shall be clearly super-scribed with the tender reference, component name (“Technical Bid” / “Financial Bid”) and bidder details send through speed post/Courier/Register Post
- Bid security/declaration and tender document fee to be enclosed/uploaded as prescribed.

8.3 General

- Bids must remain valid for 180 days. The Procuring Entity may seek extension of validity.
- The Procuring Entity reserves the right to accept/reject any or all bids, or annul the process, without assigning reasons and without liability.

9. Evaluation Methodology (QCBS)

Bids will be evaluated in three stages: (i) preliminary/eligibility scrutiny, (ii) technical evaluation, and (iii) combined QCBS scoring of technically qualified bidders. Technical and financial weightages are 40% and 60% respectively.

9.1 Technical evaluation (80 marks, qualifying ≥ 40)

Sl.	Criterion	Marks
1	Relevant experience (mobile + web, GIS, offline, AI/LLM) – produce relevant certificates/ work orders (Each work order 5 marks)	25
2	Approach, methodology & project plan (incl. offline, hosting, interoperability)	15
3	GIS & orthomosaic handling and AI (Qwen/Gemma/Llama) capability	15
4	Team composition & qualifications	10
5	Demonstration / proof-of-concept & UX quality	10
6	Financial strength & support capability	5
Total		80

9.2 Combined score

The composite (combined) score for each technically qualified bidder shall be computed as follows:

$$S = (0.40 \times T) + (0.60 \times F_n)$$

$$\text{where } F_n = (F_{min} \div F_{bid}) \times 100$$

Where —

- **T** = Technical score obtained by the bidder (out of 100), as evaluated under clause 9.1 above.
- **F_{min}** = Lowest evaluated Financial Bid among all technically qualified bidders.
- **F_{bid}** = Financial Bid of the bidder under consideration.
- **F_n** = Normalised Financial Score of the bidder (out of 100).

10. General Terms & Conditions

10.1 Performance security

The selected bidder shall furnish performance security of 3% of the contract value, valid through the contract period plus 60 days, before signing the agreement, as per prevailing GFR/Finance Department norms.

10.2 Intellectual property rights

- All custom software, source code, documentation, data and derived geospatial products developed under this contract shall be the exclusive property of the Procuring Entity / Government of Odisha.
- Open-source components shall be used in compliance with their licences; the Agency shall disclose all third-party/open-source components and their licences.
- Complete source code and deployment artefacts shall be handed over at Go-Live and on every subsequent update.

10.3 Confidentiality & data security

- All divisional data, imagery (including orthomosaics), boundaries and records are confidential; the Agency shall not copy, retain, transmit or disclose any such data without written authorisation, during or after the contract.
- The Agency shall comply with CERT-In directions and applicable data-protection law, and shall securely delete all divisional data from its environment on contract closure, furnishing a certificate of deletion.

10.4 Termination & exit

- The Procuring Entity may terminate for default (with notice and cure period) or for convenience; on termination, the Agency shall hand over all code, data, documentation and credentials and provide reasonable exit/transition support.

10.5 Other conditions

- The agreement shall be governed by the laws of India; disputes subject to the jurisdiction of courts at Sambalpur, Odisha, and resolved through arbitration as per the Arbitration and Conciliation Act, 1996, where applicable.
- Sub-contracting of the core development is not permitted without prior written consent of the Procuring Entity.
- The Agency shall comply with all applicable statutory, labour, tax and GFR provisions; force majeure as per standard government contract terms.
- Any matter not expressly covered herein shall be governed by GFR, 2017 and the General Conditions of Contract of the Government of Odisha.

Annexures

All annexures are to be submitted on the bidder's letterhead, signed and stamped by the authorised signatory. Tender Ref: **F & E/RKL/ 017 (OFFLINE)/2026-27**.

Annexure I — Bid Covering Letter

To, The Divisional Forest Officer, Redhakhoh Forest Division, Sambalpur Circle, Odisha.

Sub: Submission of bid for “Development of Nursery Management System and Forest Management System cum GIS Dashboard and Mobile Application” (Ref: F & E/RKL/ 017 (OFFLINE)/2026-27)

Sir,

Having examined the RFP document including all corrigenda, we, the undersigned, offer to design, develop, deploy, train and maintain the said solution in conformity with the RFP. We confirm that: (a) we meet all eligibility criteria; (b) our bid is valid for 90 days; (c) the prescribed bid security/declaration and document fee are enclosed; (d) we have not been blacklisted by any Government/PSU; and (e) we accept all terms and conditions of the RFP unconditionally.

Authorised signatory (name & designation):

For and on behalf of (firm): _____

Signature & seal / Date: _____

Annexure II — Bidder Profile

Sl.	Particulars	Details
1	Name of the firm/company	
2	Legal status & date of incorporation	
3	Registered & operating address	
4	PAN / GSTIN	
5	Contact person, phone & e-mail	
6	Average annual turnover (last 3 FYs)	
7	No. of technical staff (mobile / web / GIS / AI / QA)	
8	Relevant projects completed (attach list)	

Annexure III — Relevant Experience (Add more columns and rows as needed)

Sl.	Client / project	Scope (mobile / web / GIS / AI)	Value (Rs.)	Year	Status
1					
2					
3					

(Attach work orders and completion/satisfaction certificates for each project cited)

Annexure IV — Financial Bid Format

Sl.	Item	Amount (Rs.) Inclusive of all taxes
A	Design, development, deployment & Go-Live — Nursery Management System (web + mobile)	
B	Design, development, deployment & Go-Live — Forest Management system cum GIS Dashboard and mobile application	
C	AI integration (on-premises open-source LLM + RAG) (No hardware required to be quoted)	
Sub-total (Capital cost) = A+B+C		
D	Annual support / AMC — Year 2	
E	Annual support / AMC — Year 3	
F	Annual support / AMC — Year 4	
Sub-total (Support, 3 yrs) = D+E+F		
Grand Total (incl. all taxes)		

Total in words: _____

Annexure V— Declaration (No Blacklisting / Bid Security Declaration)

We hereby declare that our firm has not been blacklisted, debarred or declared ineligible by any Central/State Government, PSU or statutory body as on the date of this bid, and that all information furnished in our bid is true and correct. We understand that any false statement may lead to rejection of our bid and/or action as per rules.

Bid Security Declaration (where applicable in lieu of EMD): We accept that if we withdraw or modify our bid during its validity, or having been notified of award fail to sign the contract or furnish the performance security, we shall be suspended from being eligible for bidding in any contract of the Procuring Entity for the period as may be specified, in accordance with GFR Rule 170.

Authorised signatory (name & designation):

Signature & seal / Date / Place: _____