OFFICE OF THE

DIVISIONAL FOREST OFFICER, BALANGIR KENDU LEAVES DIVISION

Near R.T.O Chowk, Balangir – 767 001, Ph. No. 06652- 232416, e-mail:dfoklbalangir@gmail.com

O.O. No. 177 **Date :** 04/11/2026

Bid ID No. FE-KL-02-2026/27 // Date :

REQUEST FOR PROPOSAL

"SELECTION OF AN IMPLEMENTATION AGENCY TO DESIGN, DEVELOP, DEPLOY, ROLL OUT AND OPERATE THE MASTER WEB PORTAL AND ANDROID & IOS APPLICATION FOR WEATHER-BASED GO / NO-GO DECISIONS IN KENDU LEAF OPERATIONS ACROSS ODISHA. "

Divisional Forest Officer, Balangir KL Division, Balangir, Govt. of Odisha invites **sealed proposals** through offline in TRIPLE COVER (Three-envelope) system from bidders/firms/Agencies within the country of India for" **SELECTION OF AN IMPLEMENTATION AGENCY TO DESIGN, DEVELOP, DEPLOY, ROLL OUT AND OPERATE THE MASTER WEB PORTAL AND ANDROID & IOS APPLICATION FOR WEATHER-BASED GO / NO-GO DECISIONS IN KENDU LEAF OPERATIONS ACROSS ODISHA".** Bidders fulfilling the prescribed eligibility criteria of the RFP can access and download the complete RFP document and other details from the official website www.balangir.odisha.gov.in , https://kenduleaves.odisha.gov.in. The Addendum/Corrigendum if any will be hosted in the website only. The major events of the bid process are

Date of Issue of RFP	Date of Pre-bid meeting	Date of Availability of complete RFP documents	Last Date of Submission of Bid	Date of opening of technical bid	Date of Technical presentation and opening of Financial Bid	Bid processing fees (in Rs.)
06.11.2026	10.11.2026	06.11.2026	23.11.2026 (5.00 PM)	25.11.2026 (11.00AM)	27.11.2026	Rs. 10000/-

Bids shall be received "OFF LINE" on or before 5.00 PM of dt 23.11.2026 in the Drop box placed in the office of DFO, Balangir KL Division, Balangir, Odisha or through Postal / Courier. No other mode of proposal shall be accepted. The authority reserve right to reject any/all proposals without assigning any reason thereof.

Divisional Forest Officer,
Balangir (K.L.) Division

Memo No. 2422 **/Date.** 04/11/2026

Copy along with enclosure submitted to the Deputy Director-Cum- Deputy Secretary to Govt., I & P.R. Department, Odisha, Bhubaneswar with a request to get the notice published in two nos. leading local Odia Daily and one no. local English daily newspaper at an early date for wide circulation of the tender call notice.

Since, the date of receipt of bids starts from dt. **06.11.2026**, it is requested that the "Invitation for Bids" may be published **on or before 05.11.2026.**

Complimentary copy of the News Papers containing the tender call notice may be sent to this office for reference and record.

Divisional Forest Officer,
Balangir (K.L.) Division

GOVERNMENT OF ODISHA

Forest, Environment & Climate Change Department

Kendu Leaf Organisation, Odisha · Office of the DFO, Balangir KL Division

REQUEST FOR PROPOSAL

Selection of an Implementation Agency to design, develop, deploy,
roll out and operate the

Master Web Portal and Android & iOS Application

for weather-based Go / No-Go decisions in Kendu Leaf operations across Odisha

Key facts about this tender

Item	Detail
Tender reference number	**FE-KL-02-2026/27**
Who is inviting bids	Office of the Divisional Forest Officer, Balangir KL Division (Nodal Officer) on behalf of the Office of the Chief Conservator of Forests, Sambalpur KL Circle (Bid Inviting Authority)
Availability of RFP document	Downloadable from the websites www.balangir.odisha.gov.in and https://kenduleaves.odisha.gov.in from **06.11.2026**
What we are procuring	One agency to design, develop, test, deploy, roll out, train on and then operate two things for the whole state — a Master Web Portal for administration and supervision, and an Android & iOS application for field use for weather-based Go / No-Go decisions in Kendu Leaf operations across Odisha
Contract Period	Statewide Go-Live to be achieved before 15 February 2027, ahead of the 2027 crop season. From that Go-Live date: first crop year warranty included in the capital cost, followed by 3 crop Years of paid post-warranty AMC . Any extension requires mutually agreed written scope, fees and dates.
Estimated value	Not specified. Bidders must calculate and quote a total firm price for the complete turnkey delivery (Capital Cost+ 3 Crop Years O&M) based strictly on the functional specifications provided in section 3. Bidders shall also quote the ancillary services in Part B of the financial bid (Section 6.1), in a government-route column and a private-route column.
How to bid	Bids shall be submitted in physical/offline mode in sealed envelopes at the office of the Divisional Forest Officer, Balangir KL Division, as specified in the RFP Notice/Advertisement. The complete RFP document may be obtained/downloaded from the official website(s) notified in the RFP Notice/Advertisement
Method of selection	Quality and Cost Based Selection — 70% on quality of the proposal, 30% on price
Cost of tender document	Rs **10,000.00 /-** (non-refundable), paid by separate Demand Draft drawn in favour of Divisional Forest Officer, Balangir KL Division, payable at Balangir
Bid security (EMD)	Rs. **50,000.00 /-,** paid by separate Demand Draft drawn in favour of Divisional Forest Officer, Balangir KL Division, payable at Balangir
Performance guarantee	5% of contract value, as a bank guarantee, valid for the contract period plus six months.
Bid validity	180 days from the opening of the technical part
N:B- The authority reserves the absolute right to accept or reject any or all bids, or to cancel/annul the entire bidding process at any stage prior to the execution of the formal contract agreement without assigning any reasons whatsoever, and without incurring any liability to the affected bidder(s).	

Dates

Request for Proposal (RFP) for Selection of an Implementation Agency to design, develop, deploy, roll out and operate the Master Web Portal and Android & iOS Application for weather-based Go / No-Go decisions in Kendu Leaf operations across Odisha		
1	**Invitation of RFP**	**04.11.2026**
2	**Date of Commencement of Bidding Process**	**06.11.2026**
3	**Last Date & Time for Receipt of Queries from Bidders for Clarifications**	**09.11.2026 (18:00 Hrs) to be mailed to dfoklbalangir@gmail.com**
4	**Date of Pre-Bid Meeting**	**10.11.2026 (11:00 Hrs)**
5	**Place of Pre-Bid Meeting**	**Online through VC for which link will be shared later to all those who will raise queries through mail)**
6	**Last date for Authorities Response to Queries**	**12.11.2026**
7	**Last Date & Time for Bid Submission**	**23.11.2026 (17.00 hrs)**
8	**Place of Submission of Bids**	**Office of the Divisional Forest Officer, Balangir KL Division, Near RTO Chowk, Balangir, Odisha, PIN_-767001**
9	**Date & Time of Opening of Eligibility/Technical bid, Document Verification**	**25.11.2026 (11:00 Hrs)**
10	**Place of Bid Opening**	**Office of the Chief Conservator of Forests, Sambalpur KL Circle, Sambalpur**
11	**Technical presentation of eligible bidders**	**27.11.2026 (10.30 Hrs) at Office of the Chief Conservator of Forests, Sambalpur KL Circle, Sambalpur**
12	**Opening of Financial Bid in presence of all qualified bidder's representatives**	**27.11.2026 (16.00 Hrs)**
13	**Contact details of Tender Inviting Authority**	**dfoklbalangir@gmail.com**

IMPORTANT NOTICE TO BIDDERS: All subsequent corrigenda, clarifications, amendments, pre-bid responses and extensions of the bid submission timeline relating to this RFP shall be published/notified through the official publication/website channels specified in the Tender Notice/Advertisement. Bidders are advised to regularly check the designated official website(s) and other notified publication channels during the bidding period. No individual communication regarding corrigenda, amendments or extension of the bid submission date shall ordinarily be made to individual bidders unless specifically provided for by the Tender Inviting Authority. All corrigenda, clarifications and amendments duly issued by the Tender Inviting Authority shall form an integral part of this RFP and shall be binding on all bidders.

1. Introduction and Background

Kendu Leaf is called the "Green Gold" of Odisha. The trade was nationalised in 1973. Collection and processing are carried out by the Kendu Leaf Organisation under this Department, and sale is handled by the Odisha Forest Development Corporation Limited. About 8.6 lakh people, most of them women, pluck leaves during the summer months when there is no farm work. The leaves are bought at roughly 7,300 collection centres called Phadis, spread out and dried in the open for seven to eight days, then bundled and bagged.

Organisation	3 KL Circles — Balangir, Sambalpur and Cuttack · 19 KL Divisions · 42 Sub-Divisions · 149 KL Ranges
Reach	22 districts · about 7,300 Phadis · about 17,000 seasonal staff, including 7,274 Munshis
Season	Bush cutting from Basanta Panchami in February · leaves ready 45 to 50 days later · plucking, buying and open-yard drying from April to June

The whole crop is therefore handled in roughly ten weeks and dried in the open. During those weeks the biggest risk to the crop, and to the season's wages, is the weather.

1.1 The problem

- Leaves are spread out in the drying yard and then it rains. They discolour, get downgraded at bundling, and fetch a lower price.
- Humidity stays above 80% for days. The leaves do not dry, mould sets in inside the storage house, and nobody finds out until bundling starts.
- Thousands of pluckers are called out for a day that turns bad. Their day's wage is lost, and this is their main earning season.
- A sudden thunderstorm strikes while people are working in open forest. This is a safety risk.
- No record is kept of why a decision was taken, so afterwards we cannot separate avoidable losses from unavoidable ones.

1.2 What already exists

A Standard Operating Procedure has been prepared which gives field staff a proper method. It scores six weather readings — rain, humidity, wind, cloud, temperature and pressure — out of 5 each, combines them into a single number between 1.00 and 5.00, and turns that number into a colour. The Department's existing method, given as an indicative baseline only (not a binding specification) and to be improved by the Agency's SOP design, is at **Annexure 1**.

Score	Colour	What it means
4.00 and above	GREEN	Go ahead. Full plucking and drying. Call out all teams.
3.00 to below 4.00	YELLOW	Be careful. Keep teams on standby and check again every two hours.
2.00 to below 3.00	ORANGE	Hold. No fresh plucking. Only finish drying leaves already spread out.
Below 2.00	RED	Stop everything. Secure the stored leaves and warn everyone.

The score ranges above are those of the existing SOP and may be revised in the approved SOP. The four colours and the meaning of each colour are fixed.

A working demonstration, KL Sentinel, at https://klsentinel2.netlify.app/ has already been built. It already pulls free weather data from four international forecast models, works out the score

automatically, shows a three-day forecast, and keeps a weekly accuracy register. The demonstration is cited for reference only: its source code, datasets and reuse rights are not provided to bidders, and none may be assumed. Independently developed solutions that meet Section 3 are acceptable; Form D asks the bidder to state, for each component, whether it already does it, will configure it, build it or use a third party.

2. Objectives

This procurement is intended to achieve the following,

1. To design the weather parameters, the scoring method, the safety rules and the method of combining weather sources for Go / No-Go advice in Kendu Leaf operations, and to prepare the SOP for weather forecasting on that basis. Annexure 1 is the Department's existing method, given only as an indicative baseline and not as a binding specification. The Agency shall propose, and finalise at the design stage (M2), an SOP whose parameters improve on or add to those in Annexure 1 where evidence supports it, validated against historical data; the SOP is approved by the Authority before the pilot, may be refined after the pilot evaluation, and is frozen on a date notified by the Authority before statewide rollout (M6). The four colours (GREEN, YELLOW, ORANGE, RED) and their meanings are fixed and may not be changed by the Agency. After the freeze, changes are made only through the Master Web Portal with the approval of the Master Administrator under the two-person rule (Section 3.1).
2. To place the whole system under a Master Web Portal controlled by our own Master Administrator, who can delegate administrative authority to others, decide who may use the Android & iOS application, decide exactly how much of the state each person can see, and see at any moment a complete list of everyone registered.
3. To let the Master Administrator define the categories of user himself — the posts such as DFO, ACF, Range Officer, Section In-Charge, Forest Guard, Munshi and Phadi Sathi — and to add, change or retire a category as the organisation changes, without the software having to be rewritten.
4. To draw weather data from at least three kinds of source at once — the India Meteorological Department, free open-source forecast models, and paid enterprise forecast services delivered over an API — and to let the Master Administrator choose which of them are in use, and with what priority.
5. To reduce avoidable loss of Kendu Leaf to rain, humidity and damaging wind during plucking, drying and storage.
6. To alert field staff through **SMS** about the weather forecast for upcoming 7 days (scored advisories for the first three days; days 4 to 7 as forecast outlook, marked as outlook without a binding Go/No-Go instruction; issuance follows the daily cycle of the approved SOP (Annexure 1(D) as baseline), updates are daily, and immediate warnings are issued outside the cycle) during the month March, April, May, June i.e. working season of Kendu Leaf.
7. To deliver the instruction in Odia to the Munshi and the Phadi Sathi so that they can act on it immediately.
8. To keep the Daily Forecast Register and the Weekly Accuracy Register electronically, as auditable records while still printing them in the layout of the paper registers, with columns following the approved SOP.
9. To measure how accurate the advice actually was, Division by Division, Phadi by Phadi, and season by season, and to feed that back so the system keeps improving.
10. To give every officer, from Section In-Charge to PCCF, a single screen showing what is happening across the area for which he is responsible.
11. To ensure the software, the data and all documentation belong to the Government of Odisha.

3. Scope of Work

The Agency shall be responsible for the whole of the work described below on a turnkey basis — design, development, integration, testing, security certification, deployment, rollout, training, and then operation and maintenance for next three crop years. The Scope of Work is organised into nine components, A to I, followed by the implementation stages, the training obligation and the feedback and accuracy analytics requirement.

Scope baseline and change control

A Change Request (CR) shall mean any modification, enhancement to the scope of work, deliverables, technical specifications or functional requirements not defined in the Software Requirement Specification Document.

A Change Request may be initiated by the Department or the selected bidder during the project lifecycle. All CRs must be formally documented in writing, clearly outlining:

- Description of the proposed change
- Justification and objective
- Impact on scope, timelines, cost, and resources
- Technical and operational implications

Upon receipt of a Change Request, the selected bidder shall conduct a detailed impact assessment and submit:

- Effort estimation (man-days/man-months)
- Cost implications
- Timeline for delivery
- Risks and dependencies

No Change Request shall be implemented without prior written approval from the Department. Approved CRs shall form part of the contract through a formal amendment or addendum or Change Request Work Order.

	Component	**In one line**
A	Master Web Portal	The single administrative system of record, controlled by our Master Administrator
B	User Categories, Registration and Jurisdiction	Who may use the application, under which category, how much of the state each person sees, and the register of everyone enrolled
C	Geospatial Map and Jurisdiction Layers	A map of every Division office, Range office, Section and Phadi, with jurisdiction boundaries as switchable layers
D	Weather Data Ingestion Layer	IMD, open-source models and paid enterprise APIs, selectable by the Master Administrator
E	Scoring and Advisory Engine	The SOP calculation, the colour bands and the safety overrides
F	Android & iOS Application	What the DFO, Range Officer, Section In-Charge, Guard, Munshi and Phadi Sathi actually use in the field
G	Dissemination	Getting the instruction to the field in Odia by SMS/Whatsapp/voice.

	Component	In one line
H	Registers, Reporting and Analytics	The daily and weekly registers, dashboards, reports and accuracy measurement
I	Data Migration and Master Data	Loading our organisational lists, mapping the Phadis and typing up past registers

3.1 Component A — Master Web Portal

The Master Web Portal is the single place from which the entire system is configured, controlled and audited. There are two levels of administrator, and the RFP uses these names throughout.

Level	Who holds it	What it means
Master Administrator	One officer nominated by the PCCF (Kendu Leaves), with one nominated alternate	Complete authority over the system. Can do everything the portal permits and is the only level that can create user categories or delegate authority.
Delegated Administrator	Officers nominated by the Master Administrator — typically at Circle or Division level	Holds only the powers the Master Administrator has expressly handed over, only for the area handed over, and only for as long as the delegation lasts.

Powers of the Master Administrator

The Agency shall build the following into this role.

- Create, suspend, restore and permanently revoke Delegated Administrator accounts.
- Delegate authority to a Delegated Administrator. Delegation must be selective — the Master Administrator picks exactly which powers are being handed over, and to which part of the state — rather than granting everything at once.
- Withdraw any delegation immediately, at any time, without needing the Delegated Administrator's cooperation.
- See, on one screen, every delegation currently in force: who holds it, what it covers, which area it applies to, who granted it, when, and when it expires.
- Create, rename, modify and retire the categories of user, as described at Component B. This power belongs to the Master Administrator alone and may not be delegated.
- Choose which weather data sources are switched on, in what order of priority, and with what weight — as described in Component D (Weather data Ingestion Layer).
- Change the scoring bands, the weights, the colour thresholds and the safety override values, for the whole state or for one Division, with every change dated and kept as history.
- Approve or reject any change a Delegated Administrator proposes to a sensitive setting, where a two-person rule applies.
- Edit the standard wording of advisories and messages in Odia and English, and manage the message templates for each channel.
- Set the season calendar, holidays and the daily cut-off times.
- Publish a new version of the Android & iOS application and, where necessary, require users to update before continuing.

What the portal must also do

- Record every single administrative action — who did it, what changed from what to what, when, and from which device — in a log that nobody, including the Master Administrator and including the Agency, can edit or delete. Keep it for the contract period plus seven years.
- Apply a two-person rule to sensitive changes: one person proposes, a second approves. At minimum this must apply to changes to the scoring bands, to the safety overrides, to weather source configuration, to the creation or retirement of a user category, and to the granting of administrative authority.
- Warn the Master Administrator by e-mail and on screen whenever a delegation is granted, a user category is created or retired, an emergency override is used, a scoring band is changed, or a data source is switched on or off.
- Show the current health of the whole system on one page — which weather sources are responding, when data last arrived, how many Ranges have published today, how many users are active, how many messages went out and how many failed.
- Allow the Master Administrator to export any configuration, the registered user list and the full audit log to a spreadsheet at any time.
- Continue to work if the Agency disappears. Every administrative function must be usable by our own officers, from the portal, without any assistance from the Agency and without any change to the software.

3.2 Component B — User Categories, Registration and Jurisdiction

The Master Administrator, and any Delegated Administrator acting within the authority handed to him, decides who may use the Android & iOS application, under which category, and how much of the state each person can see. This is the control that matters most in daily use, because a Range Officer must not be able to alter another Range's register, and a Munshi must see only his own Phadi.

User categories

Every user belongs to a category. A category corresponds to an actual post in the organisation and carries a standard set of permissions, so that an Administrator enrolling a new Munshi does not have to decide from scratch what a Munshi may do. The Agency shall prepare the detailed role-permission matrix and worked cases (overlapping grants and blocks, additional jurisdictions, transfers) in the requirements specification (M2) for approval.

The Master Administrator must be able to create a new category, change an existing one, or retire one, entirely from the Master Web Portal — without any change to the software, without a new release of the Android & iOS application, and without any involvement of the Agency. This is a firm requirement: a bid that hard-codes the list of categories into the software will be treated as non-compliant.

The system shall be delivered with the following categories already set up and working. These are the starting position, not a fixed list.

Category	Level it normally sits at	What it normally does in the system
PCCF (Kendu Leaves)	State	Sees the whole state; reviews accuracy and performance
Chief Conservator of Forests	Circle	Sees the Circle; supervises Divisions
DFO	Division	Sees the Division; weekly accuracy review; approves recalibration proposals

Category	Level it normally sits at	What it normally does in the system
ACF	Division or Sub-Division	Assists the DFO; same view, narrower authority
Range Officer	Range	Maintains the Daily Forecast Register; submits the Monday accuracy report
Section In-Charge	Section	Confirms, amends or overrules the daily advisory before it is issued
Forest Guard	Section	Records field observations and reports deteriorating conditions
Checker	Section or Phadi	Cross-verifies readings and register entries
Munshi	Phadi	Receives the colour code; records drying yard decisions and losses
Phadi Sathi	Phadi	Assists the Munshi; reports sudden changes in field conditions
Delegated Administrator	Circle or Division	Enrols and manages users within the area delegated to him
Master Administrator	State	Full control of the portal, as described at Component A

Enrolling and managing users

- An Administrator can enrol a user one at a time, or upload a list of many users at once from a spreadsheet, and can correct, suspend, reactivate or remove them.
- Enrolment captures at least: name, category, mobile number, jurisdiction, preferred language, and the Phadi or Section the person is posted to. The mobile number is the login identity and the system must refuse a duplicate. Every user must be enrolled with a mobile number, and each user, including a Munshi and a Phadi Sathi who share a handset, has an individual account. Enrolment verification, authentication, MFA, failed-login handling, offline authentication and recovery after SIM replacement or loss of a device shall be proposed by the Agency in the security design (M2), compliant with the DPDP Act 2023, the IT Act 2000 and the CERT-In audit, and workable offline on low-cost handsets.
- A Delegated Administrator may enrol users only within his own area and only into categories that sit at or below his own level. He can never create a user with wider authority than he himself holds.
- Seasonal staff come and go every year. The system must handle bulk activation before a season and bulk deactivation after it, in one action, without deleting anyone's history.
- The system must keep a history of who held which post over which dates, so that any past decision can be traced to the person who actually took it.

The registered users screen

The Master Web Portal must show every registered user of the Android & iOS application in one place. The Master Administrator sees all of them across the state; a Delegated Administrator sees only those within his own area. This screen is the department's register of who has access, and it must be complete and current at all times.

- For each user, display at least: name, category, jurisdiction down to Phadi, mobile number, status, preferred language, who enrolled them and when, when they last logged in, and which version of the application they are running.
- Allow the list to be searched by name or mobile number, and filtered by category, by Circle, Division, Sub-Division, Range, Section or Phadi, by status, and by whether the person has ever logged in.

- Show counts at the top — how many users in total, how many in each category, how many active, suspended or never logged in, and how many by Division — so that a gap in coverage is visible at a glance.
- Allow bulk action on a filtered set: activate, suspend, move to another category, reassign jurisdiction, or trigger a fresh enrolment message.
- Flag anomalies: two accounts with the same mobile number, a Phadi with no Munshi enrolled, a Range with no Section In-Charge, and any user who has not logged in for a full season.
- Export the whole list, or any filtered view, to a spreadsheet.
- Record in the audit log every occasion on which a user list containing personal details is viewed or exported, and by whom. Masking of personal details (for example partial display of mobile numbers) and export authorisation shall be proposed by the Agency in the security design (M2) for approval.

Jurisdiction — how much each person sees

Jurisdiction follows our own hierarchy: Circle, then Division, then Sub-Division, then Range, then Section, then Phadi. When an Administrator assigns a user to a level, that user sees everything below it and nothing beside or above it.

- An Administrator can additionally grant a specific extra area to a user — for example, giving a Range Officer temporary sight of a neighbouring Range during a cyclone — and can just as easily take it away.
- An Administrator can also expressly block a particular area for a user, and a block always beats a grant.
- An Administrator can never grant anyone more than he himself holds. Authority can be passed down or sideways within his own area, never widened.
- The screen must show, before the change is saved, exactly what the user will be able to see afterwards. Guessing is not acceptable.
- Every change to a person's category or jurisdiction is logged with the reason and is visible to the Master Administrator.

3.3 Component C — Geospatial Map and Jurisdiction Layers

The Master Web Portal and Delegated Admin Web Portal must include a map of the Kendu Leaf establishment. An officer should be able to open one screen and see, geographically, every Division office, Range office, Section and Phadi, and the jurisdiction boundary of each.

The layers

Each of the following must be a separate layer that can be switched on or off independently, with its own transparency and its own place in the stacking order. The user chooses any combination.

Group	Layer	What it shows
Boundaries	KL Circle	
	KL Division	
	KL Sub-Division	
	KL Range	
	Section	
	Phadi catchment	

Group	Layer	What it shows
Offices and points	Division office	
	Range office	
	Section office	
	Phadi	
Context	Phadi Command Area	
	Revenue boundaries	
	Roads and settlements	
Operational	Today's colour	
	Next Three-day forecast	
	Next Seven-day forecast	
	Advisory confirmation	
	Actual Forecast	
	Reported losses	
Weather	Rainfall and cloud	Live radar or satellite imagery, refreshed with the data cycle
	IMD warning areas	Cyclone, thunderstorm and heat warning polygons as issued by IMD
Thematic	Accuracy heat map	How accurate the forecast has been, by Range, over a chosen period
	Production and pluckers	Kerries purchased and pluckers registered, by unit, for the season

Data, standards and sources

- Use Government of India geospatial sources as the base wherever possible — Bhuvan of the National Remote Sensing Centre, or Survey of India data — and keep an open-source base map as a fallback.
- Publish and consume the layers using open geospatial standards, so that our own GIS staff and other departments can use them without going through the Agency.
- Accept boundary data from us in the formats the Forest Department already holds, and hand every layer back in an open format at exit.
- The Department will supply the latitude and longitude of the Phadis in the format available with it, and the Agency shall load, validate and convert them for use in the system. The Department will also provide, as available and in the formats it holds, the Circle-to-Phadi lists, boundary data and the staff register; the RFP publishes no inventory or quality status of this data, and the Agency verifies it. Disputed locations or boundaries are referred by the Delegated Administrator to the Master Administrator for decision. Where a boundary or a Phadi location does not yet exist in digital form, capture it: the Android & iOS application must let a Munshi record or correct his Phadi's position with the phone's satellite positioning, and that correction must go to a Delegated Administrator for approval before it changes the master record.
- Keep a history of boundary and location changes, so that a past advisory can always be shown against the geography as it stood on that date.
- The Master Administrator must be able to add a new layer, and to switch a layer on or off for particular categories of user, from the portal.
- Spatial matching: the Agency shall propose in the design (M2) how model-grid forecasts and IMD warning polygons are mapped to each Phadi (for example point-in-polygon for warnings, nearest-

grid or interpolation for forecasts), stating each source's resolution; a Phadi on or near a warning or grid boundary is treated conservatively.

3.4 Component D — Weather Data Ingestion Layer

The system must draw weather data from three different kinds of source at the same time, and the Master Administrator must be able to decide which are in use. For the avoidance of doubt, the six connectors required at M3 comprise: IMD (1) + open-source models (minimum 3) + enterprise sources built and proven though inactive (minimum 2)

Tier	Source	How it is treated
1	India Meteorological Department — forecasts, nowcasts, warnings and cyclone bulletins	Always switched on. Cannot be turned off. Any IMD warning overrides whatever the calculated score says, and must be pushed to the field immediately. The IMD integration shall follow standard RESTful API connectors or specialized FTP file-push structures managed by the India Meteorological Department's National Center for Medium Range Weather Forecasting (NCMRWF) or regional centers.
2	Free and open-source numerical weather models — Open-Meteo carrying the ECMWF, NOAA GFS and DWD ICON models, together with any other free public source the Agency proposes	Switched on by default. At least three such sources must be integrated at launch. No licence fee, no API key, no usage limit.
3	Subscription-based enterprise forecast services delivered over an API	Off by default. The Master Administrator switches them on, for the whole state or for one Division. The Agency builds and proves the integration; the Department pays the subscription when it chooses to use it. The subscription cost is quoted in Part B (Section 6.1) for information and is paid only if the source is switched on.

The IMD integration is the Agency's responsibility; the Department will issue the letters and authorisations the Agency reasonably needs to obtain IMD access, credentials, specifications and test environments. IMD data charges, at the government rate where one applies, are quoted in Part B (Line P3). If the IMD feed or warning service is unavailable while other sources work, the app and portal show the last valid IMD warning with its time, marked 'IMD feed unavailable'; the Master Administrator is alerted, the system-health page shows the fault and advice continues from the other sources. A last valid IMD warning stays in force until its own validity ends as stated in the IMD bulletin.

Three model products delivered through the one Open-Meteo API count as three open-model integrations, provided each is separately configurable (on/off, priority, weight) and appears as a separate source in the registers and scoring. The two enterprise connectors may be any subscription-based forecast services delivered over an API, built and proven while inactive; the evidence is successful test calls and mapped output in the test environment, demonstrated at M3. The Agency obtains provider sandbox or trial credentials, and any temporary test-access charges are included in the Agency's price.

If a listed free source's terms, capacity or availability change, the Agency replaces it with an equivalent free source, approved by the Master Administrator, at no cost to the Department.

3.5 Component E — Scoring and Advisory Engine

- Where sources disagree on a reading, the readings are combined by the method set out in the approved SOP. Until that method is approved, the simple average of the available readings is used. The Agency may propose a different method (for example weighted or median) on the basis of field

accuracy and a back-test, for the Authority's approval; the method may be revised after the pilot evaluation and until the freeze date.

- Score the weather parameters using the scoring method of the approved SOP (Annexure 1 being the indicative baseline), combine them using the approved weights into a single score, and turn that score into one of the four fixed colours GREEN, YELLOW, ORANGE and RED.
- Every band boundary, weight and threshold must be a setting in the Master Web Portal, changeable by us, dated, kept as history, and capable of differing from one Division to another.
- Apply the safety overrides automatically: never advise plucking if any one source shows more than a 40% chance of rain, even where the average looks acceptable; never advise plucking if pressure is below 995 hPa; where two sources differ by more than 1.5 points, take the lower score and mark the day yellow for the Section In-Charge to decide; and where today is green but tomorrow is red, say so on today's message so that the workforce is not over-committed. The override values and warning triggers given in this Section 3.5 are baseline values; those of the approved SOP replace them once approved.
- Give separate advice for plucking, for drying and for storage, using the conditions set out in the approved SOP (Annexure 1 being the indicative baseline).
- For drying, work out from the hourly data how long the usable window is on each day — the unbroken stretch when humidity is under 70%, temperature is above 28 °C, cloud is under 50% and wind is between 5 and 20 km/h. Six hours is the minimum useful window.
- Issue an immediate warning, outside the normal daily cycle, for thunderstorms, hail, depressions and cyclones — triggered by an IMD bulletin, by pressure below 990 hPa, or by sustained wind above 40 km/h.

3.6 Component F — Android & iOS Application

The Master Web Portal is for administration and supervision. The Android & iOS application is what people actually use every day, and must work on the low-cost handsets our field staff actually carry.

How it behaves

- The screens a user sees are decided by his category and jurisdiction, as set in the Master Web Portal. A change made in the portal takes effect for that user the next time he connects, with no reinstallation.
- It must keep working with no network — holding the three-day advice, the field guidance and the register forms, saving whatever is entered offline, and syncing when the signal returns.
- Everything must be available in Odia and in English, switchable, with Odia the default for Phadi-level categories.
- Show the decision as a colour and one short Odia instruction. The numbers must be available on a second screen, but nobody should ever need them in order to act.
- Stay readable in bright sunlight — a high-contrast mode as well as a dark mode. Work with one hand. Large buttons.
- If fresh data has not arrived, show the last known advice with its age clearly marked, rather than an error message.
- Allow a Munshi and a Phadi Sathi to swap quickly on one shared handset without logging in again each time.
- Show Phadis, Ranges and Division boundaries on a map coloured by today's band, and let a Munshi correct his own Phadi's recorded location if it is wrong.
- Give each officer a dashboard suited to his post and his jurisdiction, showing today's colours across his area, the three-day outlook, who has confirmed and who has not, which registers are filled, whether messages got through, any open weather warnings, and how accurate the season has been so far — with the ability to look down to a single Phadi.

3.7 Component G — Dissemination

- Send the advice in Odia on WhatsApp to Section and Range groups and to individuals, as a short colour-coded message with a picture card that people can forward on.
- Send the same by SMS in Odia to people who do not have a smartphone, and track whether it was delivered.
- Preferably also offer a voice broadcast, and a toll-free number a Munshi can ring to hear the advice for his own Phadi in Odia.
- Remind people to fill the register and confirm the advisory, and escalate upwards when they do not.
- Let the Master Administrator control the message templates, the sending times and which groups receive what.
- The WhatsApp Enterprise API gateway and SMS routes must be registered through an Indian telecom carrier utilizing approved DLT (Distributed Ledger Technology) headers and message templates to comply with Telecom Regulatory Authority of India (TRAI) anti-spam regulations.
- The WhatsApp Business account and DLT registrations are to stand in the name of the Government of Odisha (Forest, Environment & Climate Change Department), which will sign the required authorisations; the Agency arranges the registrations. WhatsApp and SMS set-up and transaction charges are quoted in Part B (Line P2). Odia templates are drafted by the Agency and approved by the Master Administrator, who is the approving authority for Odia advisories, alerts and templates; the Department will share approved Odia terminology at Stage 1. SMS templates must comply with DLT, TRAI and carrier rules.
- 'Received' in Section 5.2(3) means delivered on at least one channel, shown by the gateway or operator delivery report (delivered status for SMS and WhatsApp; answered for voice). The denominator is the registered recipients with Active status and a valid mobile number in the area; numbers verified as invalid or switched off are excluded and corrected by the administrator. Delivery is counted once per recipient per day across channels. Telecom or platform outages are dealt with under the force majeure clause (Section 7).
- The voice broadcast and the toll-free line are optional: they are not mandatory, are not an acceptance criterion and have no separate price line. A bidder who offers them includes the cost in the quoted lines and may state its usage assumptions in the technical proposal.

3.8 Component H — Registers, Reporting and Analytics

- Keep the Daily Forecast Register electronically in the format at Annexure 1, adapted to the parameters and sources of the approved SOP — already filled in with the machine values, allowing staff to add their own observed readings, recording who prepared it and who authorised it, and printing in the A3 register layout, with columns following the approved parameters.
- Keep the Weekly Accuracy Register in the format at Annexure 1 (as adapted by the approved SOP), filled in daily by the Section In-Charge and the Munshi, submitted to the Range Officer every Monday, and reviewed weekly by the DFO.
- Let anyone record a loss against a Phadi and a date — what kind, roughly how many kerries or bundles, a photograph, and which advisory was in force at the time — so that avoidable and unavoidable losses can later be told apart.
- Produce the weekly Divisional accuracy report for Monday, the monthly Circle summary, the season review and the loss report — each printable, exportable, and able to be e-mailed out automatically on a schedule.
- Measure accuracy by Range, Division, Circle, weather reading, source and season; identify where the forecast is consistently wrong in one direction; and recommend adjustments for our approval, with the ability to test a proposed set of bands against past data before we adopt it.

- Keep a permanent, unchangeable log of every advisory issued, changed or overruled, every register entry, every master data change, and every occasion on which someone viewed personal information.
- The Weekly Accuracy Register, the daily per-user feedback and observed weather from public archives are the ground truth. The definition of 'Forecast right?' and the method across horizons and activities shall be proposed by the Agency in the design (M2) for approval. Missing observations are shown as missing and not counted; conflicting or unverified reports are weighted through the reliability profile and flagged to the Range Officer. The accuracy checks (the fields of the Weekly Accuracy Register, the daily feedback questions, the definition of 'Forecast right?' and the accuracy measures) are part of the SOP design: the Agency may propose changes, which may be altered with the Authority's approval until the freeze date before statewide rollout, and thereafter through the Master Web Portal under the two-person rule.

3.9 Component I — Data Migration and Master Data

- Load and verify the full list of Circles, Divisions, Sub-Divisions, Ranges, Sections and Phadis, with the map location of each Phadi and each office (the Phadi latitude/longitude being supplied by the Department in the format available with it), and the seasonal staff register.
- Assemble the geospatial layers listed at Component C from Forest Department, Survey of India and Bhuvan sources.
- Handle all three ways of working — Process, Phal and Grower Leaf — at Division and at Phadi level.
- Retrieve past observed weather from the free public archives for calibration purposes.
- Hand the master data maintenance over to us: after handover we must be able to add, correct and retire units ourselves through the Master Web Portal.
- The Department will supply, in digital form as available and in the formats it holds, the lists of Circles, Divisions, Sub-Divisions, Ranges, Sections and Phadis, the seasonal staff register and boundary data; past registers are digitised as provided by the Department. Illegible or uncertain records are kept with an 'uncertain' flag and referred to the Range Officer; they do not by themselves delay acceptance. The Department will provide at Stage 1 the list of Divisions and Phadis with their working mode(s) (Process, Phal, Grower Leaf) and the related forms, fields and reports; the system must allow more than one mode for a unit, and the Agency shall set out the detailed workflows and acceptance scenarios in the requirements specification (M2).

3.10 Implementation stages

The work runs in five stages. "T" means the date on which we issue the letter of intent.

Stage	When	What the Agency does
1. Study and design		Study at least 3 Divisions - visit not fewer than 15 Phadis, talking to Range Officers, Checkers, Munshis and Phadi Sathis. Establish what phones people actually carry, which networks work, and what they can read. Then produce the requirements specification, the system design, the security design, the data model and the screen designs in English and Odia, and prepare the complete master data.
2. Build and test		Build all nine components. Get the Master Web Portal, the delegation model and the user category system working first, since everything else depends on them. Load the geospatial layers. Integrate the weather sources with automatic switchover. Translate everything into Odia. Test thoroughly, including with real users drawn from three Divisions. Set up the live, test and disaster recovery environments on the hosting provided under Part B (Section 6.3).

Stage	When	What the Agency does
3. Pilot in Balangir		Deploy to Balangir KL Division only, and station at least two support staff there. Operate for 15 days only, running alongside the paper register throughout so the two can be compared. Report daily. At the end of the 15 days, submit a written evaluation stating what worked, what did not, and how the scoring should be recalibrated — and then implement what we accept, within 30 days, so as not to delay the statewide rollout deadline.
4. Statewide rollout		Roll out to all 3 Circles, 19 Divisions, 42 Sub-Divisions and 149 Ranges together, in parallel across Circles rather than one at a time, to be completed no later than 15 February 2027. Record the map location of every Phadi (using the latitude/longitude supplied by the Department, corrected in the field where found wrong) and switch on dissemination. Complete all training in parallel with rollout.
5. Operate		Operate the system to the service levels for 4 crop years from Go-Live — first crop year warranty included in the capital cost, followed by 3 crop Years of paid post-warranty AMC. Any extension requires mutually agreed written scope, fees and dates. Run a helpdesk in Odia, Hindi and English. Patch, back up, test the backups, run a disaster recovery drill twice a year, and repeat the security audit every year. Before each season, refresh the master data and re-train the newly engaged seasonal staff.

The Kendu Leaf calendar cannot be moved. The Balangir pilot will run for 15 days only (not a full season), and the statewide launch must also be completed before bush cutting begins for the 2027 crop season — i.e. before 15 February 2027. In your bid, state the calendar date you are assuming for the letter of intent and show, month by month, how both the pilot and the statewide rollout fit inside this compressed window.

Information for estimating effort: the RFP gives statewide figures only (Sections 1 and 4). Division-wise lists of staff and Phadis will be made available in the form held by the Department as part of the master data (Section 3.9); handset and connectivity conditions are to be established by the Agency in Stage 1. Until then bidders shall base effort estimates on the figures in this RFP, the device baseline in Section 4 and offline/low-bandwidth operation (Section 3.6).

The Agency shall propose in its technical proposal the helpdesk service hours (covering at least the season) and severity-wise response and resolution targets, for approval in the design (M2). Defects, meaning non-conformance with the RFP, are corrected free during the contract and for 12 months afterwards (Section 7); change beyond the 250 person-days a year is by agreement between the Authority and the Agency.

3.11 Capacity building

Training decides whether this succeeds. Our own SOP warns against giving field staff complicated numbers, and against introducing anything in the middle of a season. Train in four tiers.

Tiers of Training
DFOs, ACFs, Range Officers and Circle IT officers — who then become the trainers
Section In-Charges, Foresters, Forest Guards, Head Checkers and Circle Checkers
Munshis, Phadi Sathis, Binding Checkers and other seasonal staff
Phadi Committee members and plucker representatives

Delegated Administrators and the Master Administrator require separate, deeper training on the Master Web Portal, covering delegation, jurisdiction, weather source selection, scoring configuration and reading the audit log. This must be repeated whenever the officer holding the post changes.

Identified users are those enrolled in the portal from the master data and staff lists supplied by the Department and updated for the season. Evidence is attendance records for each tier and first login. Phadi Committee members and plucker representatives (tier 4) are listed by the Department; seasonal replacements are trained in the pre-season refresher in Stage 5. M4 requires every identified user in the pilot Division to be trained and onboarded before the pilot starts; the 95% threshold of M7 and Section 5.2(4) is the statewide and acceptance measure.

The Agency shall also deliver, in English and Odia and in editable files we can amend later: a short manual for each role; a one-page laminated card for the Phadi wall showing the four colours and the action for each; short videos suitable for forwarding on WhatsApp; an administrator handbook; and a kit for training future trainers.

3.12 Development of Feedback and accuracy analytic Model (in-app)

a. The feedback and accuracy analytic model shall be built into the Master Web Portal, the Delegated Web Portal and the Android & iOS application, using rule-based and statistical methods on the data the system already holds.

b. For each day and activity the system shall show how the colour was arrived at from the source readings and the SOP scores (a template-based explanation in Odia and English generated from the calculation), and shall flag where the sources disagree or where data are missing or stale.

c. The analytics shall not alter the SOP score, the colour or the warnings; the calculation of the approved SOP remains the authority. Any change to the bands, weights or the method of combining sources follows the approved-SOP procedure (approval by the Master Administrator under the two-person rule).

d. The system shall improve from season to season through a feedback loop running through every user, described below: the analytics compare forecasts with reported outcomes and recommend adjustments for approval, and nothing changes the live advice without approval.

e. Every application has pre-populated feedback form with drop down menus where users can describe the weather condition of the real time world with photo upload feature.

f. The analytics shall compare the weather sources and parameters and report, by Range, Division, Circle, Phadi, source, parameter and season, which source is more accurate for which area and where the forecast is consistently wrong in one direction, with recommendations for changing the SOP weights and the combination of sources, and the ability to test a proposed set of bands or weights against past data, for the Master Administrator's approval.

g. A separate Analytics Dashboard is created in the Master Web portal and Delegated Web portal providing the analysis of the weather sources and weather parameters.

h. All analytics rules, configuration, datasets, calibration results and reports belong to the Government of Odisha and shall be handed over in a form we can host and continue to use ourselves.

The feedback loop through every user

a. At the end of each operating day, every user of the Android & iOS application receives one short prompt in Odia asking what actually happened at his location — did it rain, did plucking go ahead, did the drying work, was anything lost. It must be answerable in a single tap and must never block the user from doing anything else.

b. The answers are recorded against that user, that Phadi and that date, alongside the advisory that was issued, so that the system knows not only whether the forecast was right in general but whether it was right at that particular place.

c. This user-level ground truth, together with the Weekly Accuracy Register and observed weather from public archives, is the data on which the analytics run. It shall be used to re-weight the

weather sources location by location, and to recommend recalibration of the scoring bands for the Master Administrator's approval.

d. The system shall build a reliability profile for each location and each user — how often the feedback arrives, how consistent it is — and give more weight to feedback that has proved dependable.

e. A user must be able to see his own feedback history and how it compares with what was forecast, so that giving feedback is visibly worth his time rather than an unexplained daily chore.

f. Response rates shall be reported by Range and Division on the dashboard, since a Division that stops answering will quietly stop improving.

g. A user sees his own feedback history (at least the current season); a correction or dispute facility shall be proposed in the design (M2), and any correction is recorded as a new entry linked to the original, which is never overwritten. Reliability profiles are visible to supervisors and analysts on the Analytics dashboard within their jurisdiction and to administrators, and are not used for personnel action; observations are down-weighted only after a minimum number of observations, and locations with sparse responses use Range-level or Division-level defaults.

4. Technical Requirements and Standards

These are the minimum technical conditions.

Subject	Requirement
Architecture	Modular and interface-driven. The Master Web Portal, the geospatial service, the weather ingestion layer, the scoring engine, the dissemination service, the registers and the feedback and accuracy analytics module must each be able to be deployed, scaled and replaced independently of the others. No component may be so entangled with another that it cannot be swapped out later. All inter-module interfaces shall be documented, and the Agency shall propose in the design (M2) the authentication, versioning and compatibility rules for the APIs, for approval. The analytics module cannot override SOP scoring or mandatory warnings.
Geospatial standards	Layers must be published and consumed through open geospatial standards, so that our own GIS staff and other departments can use them directly. Base mapping must use Government of India sources — Bhuvan or Survey of India — with an open-source base map as fallback. No dependence on a commercial mapping service that could withdraw or begin charging. Every layer is handed back in an open format at exit.
Hosting	Inside India, in the Odisha State Data Centre or a Government cloud empanelled by MeitY, as we direct. Hosting is taken, in the first instance, through the government route: the Odisha State Data Centre (OCAC) or a MeitY-empanelled government cloud, as the Department directs. The Agency quotes the hosting charges for the live, test and disaster recovery environments in Part B (Line P1), in both the government-route and the private-route column, and deploys, configures and manages the system on the hosting so provided (Section 6.3). The private route (a non-government cloud) is used only if the Department so elects in writing. All data and all backups stay in India. Separate live, test and disaster recovery environments, with the recovery site in a different seismic zone.
Devices	The Android & iOS application must run on Android 9, iOS 14 and above, on a handset with 2 GB of memory, and occupy less than 60 MB installed. The Master Web Portal must work on recent versions of Chrome, Edge, Firefox and Safari and on desktop screens from 1280 pixels. The browser-based version of the field application must additionally work on iOS 14 and above. Nobody should have to install from an unofficial source or disable a security setting.
Application distribution	The Android & iOS package must be signed, versioned and publishable through the App Store & Play store. The Master Administrator must be able to publish a new version, see how many users are on each version, and force an update where a release matters for safety. Signing keys and store listings belong to the Government of Odisha. However, nothing in this document shall prevent from using downloadable API purely for the purpose testing and piloting.
Configuration without release	User categories, permissions, jurisdictions, scoring bands, thresholds, message templates and weather source settings must all be capable of being changed from the Master Web Portal and taking effect in the Android & iOS application without a new release and without reinstallation.

Subject	Requirement
Capacity	5,000 people using it at once at peak, able to grow to 10,000 without rebuilding, and 25,000 registered accounts.
Availability	99.9% every month from 1 February to 31 July, and 99.5% for the rest of the year. Back in service within 4 hours of any failure, losing no more than 15 minutes of data. Daily backups kept for 90 days and test-restored every quarter.
Security	A clean audit certificate from a CERT-In empanelled auditor before launch and every year thereafter, the charges for which are quoted in Part B (Line P4). Compliance with the Digital Personal Data Protection Act, 2023, the Information Technology Act, 2000 and GIGW 3.0. Any security incident reported to us within 2 hours.
Software choices	Open-source components and open standards are preferred. Every paid component must be declared in your bid, together with what it will cost to renew for the contract period and for five years beyond it.
Source code	Held in a repository under our control from the first week of development, readable by us at any time, with a complete buildable release deposited at every milestone. Complete source code and deployment artefacts shall be handed over at Go-Live and on every subsequent update.
Documentation	Requirements, design, data model, interface specification, source code with a build and deployment guide, test reports, audit reports, administrator handbook, disaster recovery plan, user manuals and training material — all in editable form and all kept current.
Intellectual Property	All custom software, source code, documentation, data and derived geospatial products developed under this contract shall be the exclusive property of the Government of Odisha.

5. Deliverables, Milestones and Acceptance Criteria

5.1 Milestones

M	Milestone and principal deliverables	Due
M-1	Mobilisation — core team placed in Bhubaneswar, project office and issue tracker established, inception report, work plan and risk register, performance guarantee furnished and accepted	T+1 week
M-2	Requirements and design accepted — as-is study report, requirements specification, system and security design, data model, screen designs in English and Odia, master data set, test strategy, the SOP and weather-parameter design (parameters, scoring, combination of sources, safety rules and accuracy-check method) with a validation report on historical data, approved by the Authority	T+4 weeks
M-3	Build and assurance complete — all nine components built and integrated in the test environment, Master Web Portal, delegation model and configurable user categories demonstrated, geospatial layers loaded for the pilot Division, at least six weather connectors working, all test reports, user acceptance testing signed off, CERT-In certificate, GIGW assessment, full documentation, draft exit plan, and the service level measurement tooling configured with our own read access	T+6 weeks
M-4	Pilot live — Balangir KL Division operating, every user in the Division trained and on-boarded, support staff stationed,	No Later than 15.01.2027
M-5	Pilot complete — 15 days operated in Balangir, written evaluation accepted, recalibration and agreed changes implemented and the SOP frozen on the date notified by the Authority before statewide rollout	Immediately after the 15-day pilot, well before 30 January 2027
M-6	Statewide live — all 3 Circles, 19 Divisions, 42 Sub-Divisions and 149 Ranges accepted, Phadi register populated with verified locations, dissemination active	no later than 15 February 2027
M-7	Capacity building complete — all four tiers delivered to not less than 95% of identified users with attendance records, Administrator training delivered, all material handed over in editable form	Within 4 Weeks of M6 Deployment

M	Milestone and principal deliverables	Due
M-8	Final acceptance — one complete season operated across the whole state, season review report accepted, source code, documentation and knowledge transfer certified complete	End of First Full Statewide Harvest Year
M-9	Operation and maintenance — For 3 consecutive Crop Years	Y1 - 2028 Crop Year Y2 - 2029 Crop Year Y3 - 2030 Crop Year

5.2 Acceptance criteria

We will not accept any launch — the Balangir pilot or any Circle — until every one of the following is true. For the Balangir pilot, the 14 consecutive operating days referred to below must run to conclusion inside the 15-day pilot window — the pilot itself is the acceptance test, not a separate exercise after it.

1. Every Range in that area has issued a confirmed advisory on 14 consecutive operating days, with no manual intervention by the Agency.
2. We select 15 Range-days at random and work out the score by hand under the approved SOP and its worked examples (M2): it matches the system exactly.
3. On each of those 14 days, at least 95 out of every 100 registered recipients received the message by at least one channel.
4. At least 9 out of 10 Phadis in the area have a verified map location, and at least 95 out of every 100 identified users have been trained and have logged in at least once.
5. The Master Administrator has, without any help from the Agency, created a Delegated Administrator, delegated a limited authority to him, enrolled a user through him, confirmed that the user sees only the intended area, and then withdrawn the delegation.
6. The Master Administrator has, without any help from the Agency, created a new user category, enrolled a user into it, seen that category appear correctly in the Android & iOS application without any reinstallation, and then retired the category after moving the user elsewhere — with all earlier records still displaying correctly.
7. The registered users screen shows every enrolled user in the area, the counts by category reconcile with the enrolment records, and the list exports correctly to a spreadsheet.
8. The geospatial map shows every Division office, Range office, Section and Phadi in the area on separately switchable layers, each unit shaded by today's colour; a Phadi opens correctly when clicked; and a user outside the area cannot see it.
9. The per-user feedback prompt has reached every active user on each of those 14 days, and the responses are visible against the advisory issued.
10. The printed registers match the register formats of the approved SOP (Annexure 1 as baseline), and no serious or major fault remains open.

5.3 Delay

We will deduct 1% of the value of the affected milestone for every completed week of delay caused by the Agency, up to a total of 5% of the contract value. More than five weeks late on any milestone amounts to default, given the compressed statewide deadline of 15 February 2027. Where delay arises from dependencies outside the Agency's control (for example an Authority-controlled prerequisite or the store review of a compliant release submitted in time), the Agency shall notify the Authority promptly in writing with evidence, and the Authority will decide any extension of the affected milestone; the fixed dates for M4 (15.01.2027) and M6 (15.02.2027) remain tied to the crop calendar.

6. Financial Bid Format and Payment Schedule

6.1 How to quote

Quote in Indian rupees, inclusive of all taxes. In Form F the bidder enters Lines A to F excluding taxes and shows the tax details separately above the Grand Total row; the price used for evaluation is the Grand Total inclusive of all applicable statutory taxes (Section 9.2). Prices are firm for the whole contract — no increase for inflation, wages, exchange rates or a change in the rate of any tax. Bidders must include this risk in the price. A line left blank will be treated as included at no cost, and you will still have to deliver it.

Sl.	**Item**	**Amount (Rs.)**
A	Design, development, deployment and Go-Live — Master Web Portal (administration, user categories, registered users, jurisdiction, geospatial map and dashboards)	
B	Design, development, deployment and Go-Live — Android & iOS application, weather data ingestion, scoring engine, dissemination and registers	
C	Development of Feedback and accuracy analytic model (per-user feedback loop, analytics dashboard and recommendation reports)	
Sub-total (Capital cost) = A + B + C		
D	Annual support / AMC — 2028 Crop Year	
E	Annual support / AMC — 2029 Crop Year	
F	Annual support / AMC — 2030 Crop Year	
Sub-total (Support, 3 crop years) = D + E + F		
Total		
Taxes		
G. Total		

Total in words: _____

Part B — Ancillary services. The bidder shall also quote the services below. Each line is quoted in two columns: the government route (Odisha State Data Centre / OCAC or a MeitY-empanelled government cloud for hosting; IMD or another government institution for weather data; a government gateway for SMS where one exists) and the private route (a non-government provider**). Where no government route exists for a line, the bidder enters the same rate in both columns and says so**. The price used for evaluation is the Part A Grand Total plus the Part B total in the government-route column (Sections 6.3 and 9.2). Rates are firm for the contract period. Both columns must be filled on every line, and that a blank is treated as equal to the government rate.

Sl.	**Item (Part B, ancillary services)**	**Basis / quantity**	**Rate: government route (Rs.) — evaluated**	**Rate: private route (Rs.) — fallback**	**Amount, government route (Rs.), excl. taxes**	**Remarks**
P1(a)	Hosting — live, test and DR environments, build and pilot period (T to Go-Live)	Lump sum; capacity and availability as in Section 4				
P1(b)	Hosting — operation, Years 1 to 4 from Go-Live	Per year x 4				

Sl.	Item (Part B, ancillary services)	Basis / quantity	Rate: government route (Rs.) — evaluated	Rate: private route (Rs.) — fallback	Amount, government route (Rs.), excl. taxes	Remarks
P2(a)	WhatsApp Business API, SMS gateway and DLT — set-up and registration	Lump sum				
P2(b)	WhatsApp and SMS — transaction charges, Crop Years 1 to 4	Per Crop year x 4, at the quantities stated by the RFP				
P3(a)	Weather data — IMD data / API (at the government rate where one applies), Crop Years 1 to 4	Per Crop year x 4, at the calls stated by the RFP				
P3(b)	Weather data — free / open-source sources	Show nil if no charge				
P3(c)	Enterprise weather subscriptions — each provider (INFORMATION ONLY, not evaluated, payable only if switched on)	Per provider per month				
P4	CERT-In audit — before launch and each year thereafter, by a CERT-In empaneled auditor	Per audit x 4 (launch and Years 2 to 4)				
P5	Other ancillary charges (specify each, e.g. domain and SSL, backup storage, helpdesk telephony)	As stated by the bidder				
Sub-total, Part B (P1 to P5 excluding P3(c)) — government-route column						
Taxes						
Total, Part B (government route, inclusive of taxes) — used for evaluation						

Price for evaluation = Part A Grand Total (Line G) + Part B total in the government-route column.

What these six lines are deemed to include

Lines A and B together cover everything in the Scope of Work up to and including statewide Go-Live: the study and design, all nine components, Odia translation, testing, the GIGW assessment (the CERT-In security audit being quoted in Part B), data migration and register digitisation, geospatial layer preparation, the Balangir pilot and its season of operation, rollout to all 19 Divisions, and training of all four tiers together with the training material. No separate claim will be entertained for any of these. This includes the design and validation of the SOP and the weather parameters (Section 2, Objective 1).

Line C covers the development of feedback and accuracy analytics model, its integration and the per-user feedback loop.

Lines D, E and F cover everything in stage 5 of the Scope of Work for one year each: support and maintenance (hosting, messaging, weather data and audit charges being quoted in Part B), the helpdesk, geospatial service maintenance, model retraining, pre-season refresher training and 250 person-days of change effort each year. The 250 person-days are for changes requested by the Authority, in a role mix proposed by the Agency and managed through a change log approved by the Authority; unused person-days do not carry forward unless the Authority agrees. Messaging assumptions follow the RFP: up to 25,000 registered accounts, the seven-day SMS in March to June, and daily WhatsApp and SMS advisories, reminders and warnings. Volume beyond the RFP capacity, or effort beyond 250 person-days, is priced by agreement. Hosting, WhatsApp, SMS and DLT set-up and transaction charges, weather data and API charges, the CERT-In audit and other ancillary charges are quoted in Part B and are not part of Lines A to F.

Enterprise weather subscriptions are not included in any line of Part A. They are quoted in Part B (Line P3(c)) for information only, are not evaluated, and are paid only if and when the Master Administrator switches a paid source on. Historic project values requested in Form C are permitted in the Technical Bid; any price or financial figure of the present tender is not.

6.2 Payment schedule

The capital cost (A + B + C) is released against milestones, in these proportions.

Milestone	Due	Share of cost
M1 Team in Place, Guarantee Furnished, plan approved	(T+1 week)	10%
M2 Design, Project development, deployment and Go-Live of Master Web Portal, Android & iOS Application throughout the state (All 149 Ranges live & accepted)	Before 15 Feb 2027	30%
M3 Training to all users, handing over of all materials & successful operation from April to June	1st July 2027	10%
M4 Annual Support/AMC – Year 2	2028 Crop Year	20%
M5 Annual Support/AMC – Year 3	2029 Crop Year	10%
M6 Annual Support/AMC – Year 4	2030 Crop Year	20%
Total		**100%**

Part B is not paid against the milestones above; it is paid as set out in Section 6.3.

6.3 Ancillary services (Part B): route, evaluation, cap and payment

Route. The government route is the default for every Part B line. Where no government route exists for a line (for example the WhatsApp Business API or a private CERT-In empanelled auditor), the same rate is entered in both columns and the bidder says so in the remarks.

Evaluation. The price for evaluation is the Part A Grand Total plus the Part B total in the government-route column (Section 9.2). The private-route column is not evaluated. Both rate columns must be filled for every Part B line; a blank private-route entry is treated as equal to the government-route rate, and a blank government-route entry is treated as quoted at no cost. Quantities and the basis of each line are those printed in the Part B form and are the same for all bidders.

Government-route rate. The rate must be supported by the published tariff or rate card, a copy of which is enclosed with Form F, and is binding on the bidder. Where the Agency provisions the service, the Agency bears any difference if the tariff charged is higher than the rate quoted.

Fallback and cap. The Department may elect the private route for a line, in writing, only where the government service cannot be provided in time or at the required service level (for example an onboarding delay, or IMD declining access). The private-route rate is firm for the contract period and shall not exceed 125% of the government-route rate quoted for it; any excess is not payable and the line is paid at the cap. The Department will notify the route for hosting by M2, and for other lines in time for the relevant milestone.

Contracting and payment. Unless the Department contracts a government service directly (in which case the matching amount is not payable to the Agency, which still deploys and manages the system on it), the Agency provisions the Part B services and is paid quarterly in arrears against invoices, at the quoted rates for the stated quantities, with documentary evidence of the underlying charges and no mark-up. Usage beyond the stated quantities is by agreement at the quoted unit rates.

Responsibility. Irrespective of route, including where the private route is elected, the Agency remains responsible for the performance and service levels of the system. An outage of a government service contracted directly by the Department is excluded from the Agency's service-level measurement only where the Agency has met its own obligations (monitoring, disaster-recovery design and prompt notification).

Remarks in Part B are for information and evidence only. A remark that qualifies, conditions or alters a quoted rate or the quantities is disregarded, and the rate is read as quoted without the condition.

7. Terms and Conditions of Contract

Subject	The rule
Ownership of the software	Everything created under this contract — code, configuration, designs, screens, documents and training material — belongs to the Government of Odisha from the moment it is created. Anything you already owned and bring in carries a permanent, free, transferable licence to us. Anything bought from a third party is licensed in our name for the contract period plus five years, with the cost disclosed in your bid.
Ownership of the data	All of it is ours — advisories, registers, accuracy records, master data and personal details. You hold it only in order to run the system for us. You may not use, analyse, publish or sell it for anything else, in identifiable or anonymised form, and you keep no copy after you leave.
Personal information	Handled strictly under the Digital Personal Data Protection Act, 2023, never transferred outside India, and any breach reported to us within two hours.
Confidentiality	Applies for ever, including after the contract ends. Every one of your staff signs an individual undertaking. No advertising or publicity referring to this contract without our written permission.
Your people	If we ask you to remove someone, giving reasons, you replace them within 15 days at no cost to us.
Agency access to the system	No Agency account may hold the Master Administrator role at any time. Elevated access is granted for a fixed period, restricted to what is needed, fully logged, and withdrawn automatically at the end of the period.
Android & iOS signing keys	The signing keys and store listings for the Android & iOS application belong to the Government of Odisha. Where the Agency generates them, they are handed over on request and in any event at exit, so that we can continue to publish updates without the Agency.
Warranty	You warrant that the platform works as specified, contains no malicious code and infringes nobody's rights. Faults are corrected free of charge during the contract and for 12 months afterwards.
Force majeure	Events genuinely beyond either party's control, notified within seven days, with reasonable efforts to mitigate. Either party may end the contract on 30 days' notice if the event continues beyond 90 days. Failure of a weather data source is not force majeure, since you are required to provide automatic switchover.
Disputes	Disputes shall first be referred to arbitration under the Arbitration and Conciliation Act, 1996, seat at Bhubaneswar, before recourse to Balangir jurisdiction courts.
Cancellation & Fee Refund Policy	In the event that this RFP is fully cancelled by the Department due to administrative revisions, technical errors in the text, or a structural change in project scope prior to bid evaluation, the Tender Document Fee shall be refunded to the respective bidders through offline mode. However, if the process is cancelled after evaluation due to non-responsiveness or unviability of competitive rates, the document fee remains strictly non-refundable. The Earnest Money Deposit (EMD) shall be fully refunded to all non-defaulting bidders upon official termination of the cycle.
Termination for convenience	The Department may terminate this contract for its own convenience on 30 days' written notice, without needing to show cause or fault. The Agency shall be paid for work completed and accepted, and for reasonable, verified demobilisation costs, but not for lost profit on unperformed work. Approved work in progress and unavoidable,

Subject	The rule
	documented third-party commitments may be put forward as verified demobilisation costs for the Authority’s assessment; settlement follows verification within 180 days, and the security is released within 15 days of settlement. This right stands separately from termination for Force Majeure or for the Agency's default.

8. Eligibility Criteria

The agency must meet every one of these and attach the evidence. The agency may be asked to clarify a document, but a missing qualification cannot be supplied after the closing date.

Experience (item 4 and Section 9.1) is counted for completed projects only; ongoing assignments are not counted, and a multi-domain order counts once. The RFP specifies no minimum project size. Experience must be the bidder's own, as prime contractor or as a partner with its share stated in Form C; subcontractor credentials are not counted. The RFP makes no provision for consortium or JV bids: the bid must come from a single legal entity that meets Section 8 itself, with a technical team of at least 30 persons and CVs of key people. The same basis applies to all bidders.

<table>
<tr><th>#</th><th>The bidder must</th><th>Evidence to attach</th></tr>
<tr><td>1</td><td>The bidder shall be a legally registered firm/company/LLP in India, in continuous operation for at least 5 years</td><td>Certificate of incorporation and constitution documents</td></tr>
<tr><td>2</td><td>Have averaged at least Rs. 10 crore turnover a year over the last four completed financial years</td><td>Copy of IT Return for the Last 4 years</td></tr>
<tr><td>3</td><td>Valid GST registration and PAN.</td><td>GST & PAN certificates</td></tr>
<tr><td>4</td><td>Have completed at least one project involving weather or climate data, agricultural or forestry advisory services, geographic information systems or geolocation based services</td><td>Work order, completion certificate and a one-page summary</td></tr>
<tr><td>5</td><td>The bidder shall not be blacklisted/debarred by any Government/PSU as on the bid date.</td><td>Self-declaration</td></tr>
<tr><td>6</td><td>Have paid the prescribed tender fee and bid security (EMD)</td><td>Tender Fee/EMD Payment receipt proof,</td></tr>
<tr><td>7</td><td>Minimum 30 Persons working on Technical team</td><td>Details to be furnished in the format below<table><tr><td>Name</td><td>Role</td><td>Period</td></tr><tr><td></td><td></td><td></td></tr></table></td></tr>
</table>

9. Evaluation Methodology

9.1 Technical Evaluation Criteria:

A bidder scoring less than 40 marks will not be considered further and its price will not be opened.

Sl.	Criterion	Marks
1	Relevant experience — web and mobile systems/GIS/offline-capable field applications/ and data analytics/dashboard systems. Produce certificates or work orders; 5 marks for each qualifying work order	35
2	Government Projects in the relevant field (web and mobile systems/GIS/offline-capable field applications/ and data analytics/dashboard systems) (Each Completed project Carrying 5 marks each)	10
3	Team Composition	

Sl.	Criterion	Marks
	3(a) Team leader (Overall experience in IT : > 15 years – 5 marks, 10-15 years- 3 marks, <10 years- 2 marks) & (Experience involving GIS/weather/agriculture/forestry/field-decision-support systems – Minimum 2 projects – 5 Marks, 1 Project – 3 marks, Nil Project- 0 mark)	10
	3(b) Team members A. Mobile Application Specialist with > 10 years of experience – 5 marks, 5-10 years of experience – 3 marks, <5 Years of experience – 2 mark Nil Experience- 0 mark. B. Weather Data / API / Data Engineering Specialist with > 3 years of experience – 5 marks, 1-3 years of experience – 3 marks, <1 Years of experience – 2 mark C. Solution Architect / Full-stack Web Developer with > 10 years of experience – 5 marks, 5-10 years of experience – 3 marks, <5 Years of experience – 2 mark Nil Experience- 0 mark.	15
4	RFP Technical Committee's Assessment Score based on presentation (Approach, methodology, project plan and demonstration of proof of concept, SOP and weather-parameter design approach, Stakeholder understanding, Q&A responsiveness)	30
	Total	**100**

9.2 Combining quality and price

Individual bidder's quality mark is compared with the best quality mark received. The price proposal will be compared against the lowest valid price received among all technically qualified competitive bids. The price for evaluation is the Grand Total of Part A (Line A + Line B + Line C + Line D + Line E + Line F) plus the total of Part B in the government-route column, both from the section 6.1 financial bid format and inclusive of all applicable statutory taxes.

Bids will be evaluated using a Combined Quality and Cost Based Selection (QCBS) framework, allocating 70% weight to the Technical Score and 30% weight to the Financial Score.

The final ranking of the bidders will be determined by calculating a Combined Score (S) out of 100 points using the formula below:

$$S=(S_t \times 0.70)+(S_f \times 0.30)$$

Where: S= Final Combined Score of the Bidder

S_t = Technical Score out of 100 (derived from the marks awarded during the technical presentation/evaluation)

S_f = Normalized Financial Score out of 100

9.3 Methodology for Calculating the Financial Score S_f:

The lowest valid financial proposal (F_m)received among all technically qualified competitive bids will be awarded a maximum financial score of 100 points. The financial scores of all other qualified bidders (F) will be calculated proportionally as follows:

$$S_f = 100 \times (F_m/F)$$

The bidder achieving the highest Final Combined Score (S) will be declared the successful H1/Highest-ranked bidder and will be invited for contract signing. The Tender Inviting Authority may, where permissible under the applicable procurement rules and with the approval of the competent authority, undertake post-evaluation discussions/negotiations with the selected bidder, strictly within the scope and conditions of the RFP. No such discussion shall be construed as creating any right in favour of the bidder.

10. Instructions to Bidders.

Part	Documents to be submitted
Part 1 — Eligibility	a. Covering letter and company details (Form A) b. eligibility checklist with all certificates (Form B) c. proof of payment of the tender fee and bid security
Part 2 — Technical	a. Technical Evaluation Sheet (Form E) b. curricula vitae of your key people c. non-blacklisting affidavit d. project summaries (Form C) e. point-by-point response to Section 3 (Form D)
Part 3 — Financial	a. Financial Evaluation Sheet (Form F).

10.1 Bid Submission Protocol (Offline Mode)

Bids shall be submitted in physical form in sealed envelopes (Three Cover System) and shall reach the office of the Divisional Forest Officer, Balangir KL Division (Tender Inviting Authority/Nodal Officer), at the address specified in the Tender Notice, **on or before 23.11.2026** up to the prescribed time. Bids received after the prescribed date and time shall not be considered. Submission through e-mail, fax or any other electronic mode shall not be accepted. The bidder shall be solely responsible for ensuring timely delivery of the bid at the designated office. The Tender Inviting Authority shall not be responsible for any delay in delivery by post, courier or any other mode of physical transmission. The bidder is solely responsible for timely delivery. The office of the DFO, Balangir KL Division, will give a receipt for bids delivered by hand. If a corrigendum changes a prescribed form after dispatch, the corrigendum will state whether replacement pages must be submitted; where it does, the bidder shall deliver them before the deadline in a sealed envelope marked with the tender number and 'Replacement pages'.

The bid must be enclosed in one outer envelope superscribed "**Bid for Master Web Portal and Android & iOS Application for weather-based Go / No-Go decisions in Kendu Leaf operations across Odisha — Tender No. FE-KL-02-2026/27** "with the **bidder's name** and **address.** The outer envelope must contain **three** separate sealed envelopes. All the three envelopes should be clearly labelled on top as

1. Eligibility Bid
2. Technical Bid
3. Financial Bid

Envelope 1: Eligibility Bid : Covering letter and company details (Form A), Tender Fee and EMD. Demand draft for the tender document fee (Rs. 10000/-) and for the bid security (Rs. 50,000/-), drawn in favour of Divisional Forest Officer, Balangir KL Division payable at Balangir, and eligibility checklist with all certificates (Form B). If Envelope 1 is missing or incomplete, Envelopes 2 and 3 will not be opened. Bank guarantee in lieu of the bid security is not accepted.

Envelope 2: Technical Bid : All Documents under Part 2, in one original set must be submitted. Papges must be numbered serially and indexed. Every Page must be signed and sealed by the Authorized signatory, as the page footer requires. No price or financial figure may appear anywhere in Envelope 2. Any violation results in automatic disqualification at the technical opening stage. Technical Bid is to be opened on 25.11.2026 (11.00 Hrs)

Envelope 3: Financial Bid. The priced Bill of Quantities in Form F signed and sealed, with the total also written in words. No alteration of the format is permitted. Envelope 3 will remain sealed and will be opened only for technically qualified bidders on 27.11.2026 (16:00 Hrs), in the presence of their representatives.

Bids with overwriting or unattested corrections, or with any mandatory envelope missing, are liable to rejection. All bids are received and held in the custody of the Tender Inviting Authority until opening.

10.2 Amendments and Corrigenda Protocol

Any corrigendum, clarification, amendment, pre-bid response or extension of the bid submission timeline relating to this RFP shall be issued and published through the official Government of Odisha/Department website(s) and other official publication channels specified in the Tender Notice/Advertisement, as applicable. Bidders shall be responsible for regularly checking the designated official website(s) and notified publication channels during the bidding period. No individual intimation shall ordinarily be sent to bidders unless specifically provided for by the Tender Inviting Authority. Any corrigendum, clarification, amendment or extension duly issued by the Tender Inviting Authority shall form an integral and binding part of this RFP.

In case of any conflict between the original RFP and a subsequently issued corrigendum/amendment, the provisions of the latest duly issued corrigendum/amendment shall prevail to the extent of such conflict.

Annexure 1 — The scoring method (indicative baseline)

This is taken from the Department's existing SOP and is given only as an indicative baseline; it is not a binding specification. The Agency shall design the final SOP (Section 2, Objective 1) and the Authority approves it at M2; every value of the approved SOP shall be a setting that the Department can change itself through the Master Web Portal, separately for each Division. The four colours GREEN, YELLOW, ORANGE and RED and the meaning of each (Go; Go but carefully; Hold; Stop) are fixed and may not be changed by the Agency.

A. How each reading is scored out of 5

Reading	5 — best	4 — good	3 — borderline	2 — poor	1 — dangerous	Weight
Chance of rain (%)	0 to 10	over 10 to 20	over 20 to 35	over 35 to 50	over 50	0.30
Humidity (%)	60 or less	over 60 to 70	over 70 to 80	over 80 to 90	over 90	0.20
Wind (km/h)	under 10	10 to 20	over 20 to 30	over 30 to 40	over 40	0.15
Cloud cover (%)	0 to 20	over 20 to 40	over 40 to 60	over 60 to 80	over 80	0.15
Temperature (°C)	25 to 35	20 to under 25	over 35 to 38	15 to under 20	under 15, or over 38	0.10
Pressure (hPa)	over 1013	over 1005 to 1013	over 998 to 1005	990 to 998	under 990	0.10

The bands run continuously, so every possible reading falls into exactly one band and nothing is left out. Averaged readings are not whole numbers, so score them against these ranges as they stand and round only the final total, to two decimal places.

> **The formula**
>
> Total = (rain × 0.30) + (humidity × 0.20) + (wind × 0.15) + (cloud × 0.15) + (temperature × 0.10) + (pressure × 0.10)
>
> The weights add up to 1.00, so the total always falls between 1.00 and 5.00. Where sources disagree, average the readings first and score the average.

B. What the total means

Total	Colour	Decision	What field staff do
4.00 to 5.00	GREEN	Go	Full plucking and drying. Call out all teams.
3.00 to below 4.00	YELLOW	Go, but carefully	Keep teams on standby and check again every two hours.
2.00 to below 3.00	ORANGE	Hold	No fresh plucking. Only finish drying what is already spread out.
Below 2.00	RED	Stop	Halt everything, secure the stored leaves, warn everyone.

C.. Rules that override the total

Job	Good conditions	Never do it if…
Plucking	Total 4.00 or above, rain under 20%, humidity under 75%, wind under 25 km/h. Best between 6 and 10 in the morning.	Any one source shows more than a 40% chance of rain, even if the average looks fine · pressure is below 995 hPa · the sky darkens or the wind picks up on the ground
Drying	Humidity under 70%, temperature over 28 °C, cloud under 50%, wind 5 to 20 km/h, and at least six unbroken good hours.	Rain is likely in the afternoon — do not spread a new batch. On a yellow day only finish what is already laid out.
Storage	Covered, ventilated building, humidity under 80%, stack sealed and covered.	Humidity goes above 80% — check daily from then on · two red days are forecast — cover every exposed bundle with tarpaulin and lift it off the ground
Any job	—	Two sources differ by more than 1.5 points — take the lower score and treat the day as yellow · today is green but tomorrow is red — plan for today only

D. The daily routine the system must support

Time	Who	What happens
4.00 pm	Section In-Charge	Weather data collected for the next three days and the register filled in
4.30 – 4.45 pm	Section In-Charge	Each source scored and the combined total worked out for all three days
5.00 pm	Section In-Charge	Colour assigned using the table above
5.30 pm	Section In-Charge	Decision passed to field staff on WhatsApp and by word of mouth
Any time	Munshi / Phadi Sathi	If conditions worsen, a fresh advisory after checking with the Section In-Charge
End of day	Section In-Charge	Actual weather written against the forecast in the accuracy log
Monday	Range Officer	Last week's accuracy report sent up to the DFO

E. The two registers, which must print in this layout

Daily Forecast Register — kept as an A3 register at Range level and photographed to the Section WhatsApp group by 6 pm each day.

Range: _____ Section: _____ Date: _____

Day	Source	Rain %	Wind	Humidity %	Temp	Cloud %	Pressure	Score
Day 1	One row for each active source							
	AVERAGE							
Day 2	One row for each active source							
	AVERAGE							
Day 3	One row for each active source							
	AVERAGE							

Day 1 score _____ decision _____ Day 2 score _____ decision _____ Day 3 score _____ decision _____ Prepared by _____ Authorised by _____ Time _____

Weekly Accuracy Register — filled in each evening by the Section In-Charge and the Munshi, sent to the Range Officer every Monday, reviewed weekly by the DFO.

Date	Forecast score	Decision given	Did it rain?	Plucking done?	Drying worked?	Any loss	Forecast right?	Remarks
Day 1			Y / N	Y / N	Y / N		Y / N	
Day 2			Y / N	Y / N	Y / N		Y / N	
Day 3			Y / N	Y / N	Y / N		Y / N	
Day 4			Y / N	Y / N	Y / N		Y / N	
Day 5			Y / N	Y / N	Y / N		Y / N	
Day 6			Y / N	Y / N	Y / N		Y / N	
Day 7			Y / N	Y / N	Y / N		Y / N	

This register is also the ground truth for the feedback loop at Clause 3.12. Its completeness therefore matters not only for supervision but for the accuracy of the system itself.

Annexure 2 — Forms to be submitted

Form A — Covering letter and company details

To,

Sub: Submission of bid for "----------"

Madam/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 180 days; (c) the prescribed tender document fee and bid security (EMD) are enclosed; (d) we have not been blacklisted by any Government/PSU; and we accept all terms and conditions of the RFP.

Authorised signatory (name & designation): _____

For and on behalf of (firm): _____

Signature & seal / Date: _____

Form B — Eligibility checklist

One line for each condition at Section 8. Do not delete or reorder the rows.

Condition No.	Eligibility Criteria	Document attached	Page number
1	The bidder shall be a legally registered firm/company/LLP in India, in continuous operation for at least 5 years		
2	Have averaged at least Rs. 10 crore turnover a year over the last four completed financial years		
3	Valid GST registration and PAN.		
4	Have completed at least one project involving weather or climate data, agricultural or forestry advisory services, geographic information systems or geolocation based services		
5	The bidder shall not be blacklisted/debarred by any Government/PSU as on the bid date.		
6	Have paid the prescribed tender fee and bid security (EMD)		
7	Technical team (developers, GIS, mobile, Data Analytics) and local support capability. (Minimum 30 Persons)		

Form C – Project summary — one sheet for each project cited:

Detail	Your answer
Project name; client and sector	
Client contact we may telephone — name, post, telephone, e-mail	
Value (Rs. Lakh, excluding taxes); start and completion dates; current status (No bid price, commercial quotation, financial proposal or price-related information concerning the present tender shall be included in the Technical Bid.)	
Were you prime contractor, a partner, or a subcontractor? Your share	
What the project involved, in 200 words or fewer	
Why it is relevant — weather, agriculture, forestry, mapping, rural data collection, or delegated administration across a hierarchy	
Technology used and where it was hosted; is it live and can we inspect it?	
Evidence attached, and the page number	

Form D — Response to the Scope of Work

Describe what you will actually do. Do not copy our wording back to us.

Clause	Component	Already does it / configure / build / third party	How you will do it	Where in your proposal
3.1	Master Web Portal and delegation			
3.2	User categories, registration and jurisdiction			
3.3	Geospatial map and jurisdiction layers			
3.4	Weather data ingestion layer			
3.5	Scoring and advisory engine			
3.6	Android & iOS application			
3.7	Dissemination			
3.8	Registers, reporting and analytics			
3.9	Data migration and master data			
3.12	Feedback and accuracy analytics and per-user feedback loop			

Signature: _____

Name: _____

Designation: _____

For and on behalf of: _____

Place: _____

Date: _____

(Company Seal)

Form E

Technical Sheet

Sl.	Criterion	Documents Submitted
1	Relevant experience — web and mobile systems/GIS/offline-capable field applications/ and data analytics/dashboard systems. Produce certificates or work orders; 5 marks for each qualifying work order	
2	Government Projects in the relevant field (web and mobile systems/GIS/ offline-capable field applications/ data analytics/dashboard systems) (Each Completed project Carrying 5 marks each)	
3	Team Composition	
	3(a) Team leader (Overall experience in IT : > 15 years – 5 marks, 10-15 years- 3 marks, <10 years- 2 marks) & (Experience involving GIS/weather/agriculture/forestry/field-decision-support systems – Minimum 2 projects – 5 Marks, 1 Project – 3 marks, Nil Project- 0 mark)	
	3(b) Team members A. Mobile Application Specialist with > 10 years of experience – 5 marks, 5-10 years of experience – 3 marks, <5 Years of experience – 2 mark Nil Experience- 0 mark. B. Weather Data / API / Data Engineering Specialist with > 3 years of experience – 5 marks, 1-3 years of experience – 3 marks, <1 Years of experience – 2 mark C. Solution Architect / Full-stack Web Developer with > 10 years of experience – 5 marks, 5-10 years of experience – 3 marks, <5 Years of experience – 2 mark Nil Experience- 0 mark.	
4	Presentation to be given as per RFP	

Signature: _____

Name: _____

Designation: _____

For and on behalf of: _____

Place: _____

Date: _____

(Company Seal)

Form F

(Financial Sheet in a separate cover) (Part-A)

Sl.	**Item**	**Amount (Rs.)**
A	Design, development, deployment and Go-Live — Master Web Portal (administration, user categories, registered users, jurisdiction, geospatial map and dashboards)	
B	Design, development, deployment and Go-Live — Android & iOS application, weather data ingestion, scoring engine, dissemination and registers	
C	Development of Feedback and accuracy analytic model (per-user feedback loop, analytics dashboard and recommendation reports)	
Sub-total (Capital cost) = A + B + C		
D	Annual support / AMC — 2028 Crop Year	
E	Annual support / AMC — 2029 Crop Year	
F	Annual support / AMC — 2030 Crop Year	
Sub-total (Support, 3 crop years) = D + E + F		
Total		
Taxes		
G. Total		

Grand Total in words

Part B — Ancillary services (to be filled in the same cover; basis and rules as in Section 6.1 and Section 6.3).

Sl.	Item (Part B, ancillary services)	Basis / quantity	Rate: government route (Rs.) — evaluated	Rate: private route (Rs.) — fallback	Amount, government route (Rs.), excl. taxes	Remarks
P1(a)	Hosting — live, test and DR environments, build and pilot period (T to Go-Live)	Lump sum; capacity and availability as in Section 4				
P1(b)	Hosting — operation, Years 1 to 4 from Go-Live	Per year x 4				
P2(a)	WhatsApp Business API, SMS gateway and DLT — set-up and registration	Lump sum				
P2(b)	WhatsApp and SMS — transaction charges, Crop Years 1 to 4	Per Crop year x 4, at the quantities stated by the RFP				
P3(a)	Weather data — IMD data / API (at the government rate where one applies), Crop Years 1 to 4	Per Crop year x 4, at the calls stated by the RFP				
P3(b)	Weather data — free / open-source sources	Show nil if no charge				
P3(c)	Enterprise weather subscriptions — each provider (INFORMATION ONLY, not evaluated, payable only if switched on)	Per provider per month				
P4	CERT-In audit — before launch and each year thereafter, by a CERT-In empanelled auditor	Per audit x 4 (launch and Years 2 to 4)				
P5	Other ancillary charges (specify each, e.g. domain and SSL, backup storage, helpdesk telephony)	As stated by the bidder				
Sub-total, Part B (P1 to P5 excluding P3(c)) — government-route column						
Taxes						
Total, Part B (government route, inclusive of taxes) — used for evaluation						

Price for evaluation = Part A Grand Total (Line G) + Part B total in the government-route column.

Signature: _____

Name: _____

Designation: _____

For and on behalf of: _____

Place: _____

Date: _____

(Company Seal)