Annexure-I

1. **Expected functionality of the Mobile Applications of ICAR-VPKAS, Almora, Uttarakhand:**

   a. Mobile App Platform
      The mobile app shall be available in the following popular mobile operating systems:
      Android and iOS

   b. Functionality
      - All information related to crops, its varieties, package of practices and insect/pest control shall be displayed in the app, categorized in an easily navigation and searchable manner.
      - The procedure to send queries & facility for downloading or emailing.
      - Contact information of ICAR-VPKAS Officials, including addresses on Google Maps as well as telephone and email addresses
      - Facility to send a message to ICAR-VPKAS or log a grievance in the mobile app related to any crop
      - Linkage to web site of ICAR-VPKAS and other ICAR institutes.

   Mobile App 1:

   i. Home Page
   ii. Major hill crops
   iii. Wheat & Barley
      - Early sown varieties
      - Timely sown varieties
      - Late sown varieties
      - Barley varieties
      - Package of Practices
      - Major diseases and pest control

   iv. Maize
      - Varieties
      - Package of Practices
      - Major diseases and pest control

   v. Rice
      - Irrigated transplanted condition
      - Spring sown rainfed upland
      - June sown rainfed upland condition
      - Package of Practices
      - Major diseases and pest control

   vi. Lentil
      - Varieties
      - Package of Practices
      - Major diseases and pest control

   vii. Pea
      - Varieties
      - Package of Practices
      - Major diseases and pest control

viii.   Horse Gram
- Varieties
- Package of Practices
- Major diseases and pest control

ix.   Rajmash
- Varieties
- Package of Practices
- Major diseases and pest control

x.   Soybean
- Varieties
- Package of Practices
- Major diseases and pest control

xi.   Finger Millet
- Varieties
- Package of Practices
- Major diseases and pest control

xii.   Barnyard Millet
- Varieties
- Package of Practices
- Major diseases and pest control

xiii.   Garlic
- Varieties
- Package of Practices
- Major diseases and pest control

xiv.   Vegetable Pea
- Varieties
- Package of Practices
- Major diseases and pest control

xv.   Capsicum
- Varieties
- Package of Practices
- Major diseases and pest control

xvi.   Tomato
- Varieties
- Package of Practices
- Major diseases and pest control

xvii.   Onion
- Varieties
- Package of Practices
- Major diseases and pest control

xviii.   French Bean
- Varieties
- Package of Practices
- Major diseases and pest control

xix.   Amaranth
- Varieties
- Package of Practices
- Major diseases and pest control

Mobile App 3:
- Home Page with objective
- List of lectures
  a) 100 lectures in audio form including facility to select by user add and delete (by Institute) . (In downloadable form)
  b) Contact information

3. Scope of Work for the Bidder

The broad scope of work for the bidder shall include, but not limited to

a) Design and Development of Mobile Application (Android and iOS)

- Conception
- Design and
- Development
- To submit messages / queries / grievances

b) One-time Data Migration of related content with one year support.

c) User Acceptance Testing

d) Hosting the Mobile Application in the Application Stores of Google and Apple
e) Launch for Public Use
f) Training to ICAR-VPKAS staff on data up-dation
g) Maintenance and troubleshooting support through AMC contract
h) Up-dation of contents

4: Expected Technical Features of Mobile apps

A: Mobile Platform requirement:

Operating system: Android OS Ver.-6.0 and above & iOS

B: User Interface Requirements

a) All icons must be crisp, clean, and distinguishable and should be as per guidelines of mobile application platform.
b) All buttons and objects must be reactive to touch and work as intended.
c) All functions must stay within the mobile platform boundaries.
d) All data must be easily viewable on different Mobile platforms.

C: Technology and Server Requirements

a) Mobile App development should be in English and Hindi languages.
b) Web Services shall be developed using .NET with MSSQL server Database / PHP with MySQL database or compatible web services using technology currently in use.
c) Vendor has to ensure the development of mobile application as per guidelines issued by Application stores. For ex: Google play, iTunes etc.
d) Vendor has to host mobile app binary to iTunes APP store and Google play store

5. Testing

a) Vendor is expected to perform comprehensive ICSI mobile application testing as part of the project scope.
b) The test plans, test cases and results for each of the phases will be shared by vendor with ICAR-VPKAS.
c) Vendor has to facilitate User acceptance testing environment for ICAR-VPKAS.

6. Timeline and Deliverables

a) Vendor is expected to deliver the mobile application on application store (Google Play) within 8 weeks.
b) Vendor has to share the Design Documents based on the ICAR-VPKAS Requirement document for Review & Sign-off.
c) User Manual, Admin Manual, Test Cases, Test Plan and QA Results for User Acceptance testing.
d) Application Code, Web API's.
e) Deployment document
f) All contents and code belong to ICAR-VPKAS. Bidder cannot use this information elsewhere directly or indirectly.

7. Eligibility Criteria

a) The bidder shall be registered entity in India, with the necessary Income Tax, GST registrations.

b) The bidder shall submit at least 2 references of mobile application developed for Government organizations, obtaining successful completion certificate from the customers.

c) More than 3 years of establishment of the company in the relevant field.