

TERMS OF REFERENCE (TOR)

PROJECT: SMART AGRICULTURE FOR CLIMATE RESILIENCE

DEVELOPMENT OF ANDROID MOBILE APPLICATION/ WEB APPLICATION

REFERENCE NO# ASSHO-192187-00871

CONTRACT DURATION: 30 DAYS

AFGHANISTAN SOCIAL SERVICES AND HUMANITARIAN ORGANIZATION (ASSHO)



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 TADAMON ACCELERATOR
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1. Background

ASSHO is implementing a pilot project to support smallholder farmers, women, and youth in rural Afghanistan, where internet connectivity is limited or unreliable. The project aims to improve climate resilience, agricultural productivity, and digital inclusion through a low-tech, offline-capable digital ecosystem.

Farmers currently lack access to:

- Timely weather and irrigation advice
- Practical climate-smart farming training
- Crop tracking and peer support
- Content in English and the Dari language

To address this, ASSHO needs a Management Information System (MIS) with an Android mobile app/ web application that works offline-first and includes video-based training, community features, and gender/youth empowerment tools.

2. Objective

To design, develop, test, and deploy a fully functional digital platform within 30 days that enables:

- Farmers (especially women and youth) to access climate-smart agricultural information offline
- Trainers to register and monitor farmer progress
- ASSHO administrators to manage users and view analytics
- Peer-to-peer learning and expert Q&A
- Video-based training
- Dedicated content for women and young farmers

3. Key Features

3.1 Features

1. User registration (farmer, trainer, admin)
2. Climate-smart farming tips (text + images)
3. Weather forecasts (3-day basic, free API)
4. Irrigation schedules & pest control guides (Videos)
5. Drought-resistant crop guidance (offline articles)
6. Crop tracking (manual entry: crop type, planting date, harvest estimate)
7. Digital training modules (YouTube embed)
8. Gender & youth empowerment section (dedicated content tabs)
9. Export reports to PDF for donor reporting

4. Technical Requirements

4.1 Platform & Architecture

1. **Backend** - PHP (Laravel) or Node.js or Python (Django/Flask)
2. **Database** - MySQL / PostgreSQL
3. **Mobile App** - Android (minimum SDK 23 / Android 6.0)
4. **Hosting** - Shared hosting or VPS (budget-friendly) + SSL certificate
5. **Video Storage** - YouTube for streaming

4.2 Video Module Specifications

1. Support for YouTube embedded videos (streaming when online)
2. Support for offline video download (MP4, max 10MB per video, 480p)
3. Initial library: 20-30 videos (provided by ASSHO)
4. Admin can add/remove videos via MIS dashboard
5. Videos categorized by topic (climate, water, pest control, women, youth, etc.)

4.3 Gender & Youth Empowerment Module

1. Separate **tab/section** for **Women in Agriculture**
2. Separate **tab/section** for **Youth in Agriculture**
3. Each section contains:
 - a. Video tutorials relevant to women/youth
 - b. Text guides
 - c. List of local youth mentors

5. Deliverables & Timeline (30 Days)

Milestone	Deadline	Deliverable
1	Day 5	Wireframes, database schema, and architecture approved by ASSHO
2	Day 12	Beta version – MIS, (Web)/Android app
3	Day 18	Beta version – All mandatory features
4	Day 24	Optional features (as bid) + video integration + testing
5	Day 28	User acceptance testing (UAT) + bug fixes
6	Day 30	Final deployment + source code + database + training + documentation

Final Handover Includes:

- 1.Full source code
- 2.Database dump + schema documentation
- 3.User guide (step-by-step)
- 4.1 month of bug-fixing support (post-deployment)

6. Qualification Requirements for Bidders

#	Requirements (Mandatory)
1	Company registration certificate (Afghanistan or international)
2	Minimum 3 similar projects (offline mobile app/web dashboard) completed in the last 2 years. Experience with UN Projects will be a plus point
3	Team composition (project manager, Android developer, backend developer, QA)
4	References from past clients (with contact details)
5	No active sanctions or blacklisting by UNDP / UN

7. Selection Criteria

- Step 1:** Technical compliance (pass/fail) – Must meet all mandatory requirements in Section 3, 4 and 6
- Step 2:** Lowest-cost bid among technically compliant firms - 100%
- Bid Validity: 15 days from submission deadline

8. Application Submission Requirements

Interested firms must submit two separate documents:

A. Technical Proposal (max 20-25 pages)

- Understanding of the agriculture/farmers app
- Proposed architecture (backend, mobile, sync strategy)
- Work plan for 30 days (Gantt chart or table)
- Team profiles (names, roles, experience)
- List of mandatory features (Section 3.1) – confirm each
- Previous project references (with links/screenshots)
- Confirmation of 1 month post-deployment support

B. Financial Proposal (separate file)

1. Lump sum in USD (no hidden costs)
2. Breakdown by major phase (optional but encouraged)
3. Must state: "All prices are final and inclusive of all taxes and fees."

Submission Deadline:

Submit to: **Email:** info@assho.org | **Subject line:** TOR Bid – MIS & Mobile App – [Firm Name]

Point of Contact:

Email: info@assho.org | **Phone:** +93 77 027 1133

Special Conditions

1. Intellectual Property: All source code, designs, databases, and documentation shall become the sole property of ASSHO upon final payment.
2. Confidentiality: The selected firm must sign a Non-Disclosure Agreement (NDA) before accessing any project data.
3. ASSHO Access: ASSHO may request access to the application, source code, or server for audit/review purposes.
4. No Subcontracting: The bidding firm must perform the work directly. No third-party subcontracting without prior written approval from ASSHO.
5. Language of Contract: English. All documentation and code comments must be in English.



Afghanistan Solidarity
For Social & Humanity Organization

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