

Section VI- Technical Specification for procurement of

Enabling and converting the content (Crop doctor, Expert System, Decision Support System) in to web enabled platform

Tamil Nadu Agricultural University has developed a new innovative e-tool called Virtual Expert System, which could virtually act as expert and be by the side of the farmer. It is a virtual diagnostic tool that could be used by farmers as well as Agricultural Extension Workers. Further, TNAU has developed AgriTech portal which is the largest agricultural knowledgebase which has to be redesigned with responsive portal.

Required Specifications for web content platform

1. DNN Web Content Management Platform with the following features

- ☐ Cloud-based deployment
- ☐ Unlimited Content Editors
- ☐ Role-based, version management, auto saves and version compare.
- ☐ Multi-site Management: Different set of Responsive Theme for each site
- ☐ Workflow, document tagging and document versioning
- ☐ Page caching and cloud storage
- ☐ Security: Role-based, granular multiuser permissions, Active Directory Authentication
- ☐ Mobile Responsive with API
- ☐ Advanced Editing and URL Management
- ☐ SEO Optimized platform
- ☐ Integrated Web Analytics
- ☐ Platform extensibility with Add-ons

2. Add-on tools required

- ☐ Responsive Form Designer
- ☐ News
- ☐ Slider
- ☐ Document Exchange
- ☐ Gallery

3. Content Streaming required specifications

- ☐ Server platform Linux; Client support: Mac / Windows / Linux / Android / iOS
- ☐ Cloud based streaming with Transcoder, DRM and DVR
- ☐ Unlimited number of users and streams in and out
- ☐ GPU Enabled
- ☐ Live, VOD both edge and HTTP origins enabled
- ☐ Mobile Streaming and Transcoding application to be provided
- ☐ **Streaming as well as Playback protocol required**
- ☐ MPEG-DASH
- ☐ Apple HLS
- ☐ Adobe RTMP

- ☐ Adobe HDS
- ☐ Microsoft Smooth Streaming
- ☐ RTSP/RTP
- ☐ Live Chat

4. Conversion tools

- ☐ Final cut X - 2sets
- ☐ Motion 5 -1
- ☐ Compressor 4 -1
- ☐ Logic pro X-1
- ☐ Adobe Creative Cloud Complete with Flash studio, Flex Builder, Photoshop, Acrobat - 1set

Important Note: All software should be enabled with Unicode Tamil font and latest version. (The latest version of software which over rights above mentioned technical specification)

Mandatory Requirements

1. Should be in the field of IT and IT enabled services and should have a minimum of three years experience in such service
2. Should have proven experience in
 - a. Web Application development
3. The entire project should be carried out by the tendering company
4. Compliance statement for the mandatory technical specification has to be provided in a separate document, properly signed by the authorized person with date and seal.
5. Partial / incomplete offer will be disqualified
6. All software should be perpetual license of **most recent version** wherever possible and if it is subscription, it should be for three years with support.
7. **Warranty and Support:** Three years for all products and if it's a software subscription it should be for three years.