

Section VI- Technical Specification for availing of

Cloud Hosting of Entire Knowledge Repository

TNAU is proposing to migrate the existing legacy applications such as Crop Doctor, Expert System and Decision Support System, AgriTech Portal to cloud platform in order to be more accessible on the web. Also TNAU is proposing to migrate existing AgriTech portal to a cloud environment. The cloud platform will enable these applications to be scalable as per the demands of the end users. Cloud Hosting of all web applications and content of the project should be hosted seamlessly and maintained for minimum three years. Mobile apps should also be delivered from web platform.

Cloud Hosting Requirements: Hosted and maintained for minimum **three years** in Indian or Asia Pacific region-Singapore / Hong Kong

Sl. No.	Server Function	CPU	Memory	Disk SSD
1	Web Server – Windows Server 2012	8	16GB	80GB
2	App Server	8	16GB	80GB
3	Streaming Server	16	32GB	100GB
4	DB Server 1	16	32GB	100GB
5	DB Server 2	16	32GB	100GB
6	Common Cloud Storage	—	—	1000GB
7	Content Delivery Network(CDN)	Enabled for Web Server & Streaming Server at global regions with sufficient bandwidth HD streaming application involving more than 1000 clients		—
8	Data Transfer IN	250 TB for 3 years		—
	Data Transfer OUT	250 TB for 3 years		—
9.	One static public IP for each of the servers			
10.	Dynamic scaling up and down without deleting data			

- Operating System:
RedHat Enterprise Linux or Equivalent
- Data base:
As per the requirement of the application

- Bandwidth:
 - ✓ Minimum 100Mbps in/out dedicated and Load balancing should be enabled
- Security
 - ✓ Built-in Firewall for ingress and egress
 - ✓ Secure communications to the cloud services using SSL and certificates
 - ✓ Built-in Multi-factor Authentication for cloud access

□ Support:

The solution provider should install the required application server, Database and Web server.

- ✓ Uptime – 99.99%
- ✓ Max Time to Resolve – 2 hours
- ✓ Max Time to Respond – 1 hour
- ✓ 24x7 Telephone support with one stop contact
- o Local Backup required for all cloud data in/out

Supporting Tamil Language and Unicode font

All applications and servers should support the Unicode Fonts and Tamil with upgraded version. (The upgraded version 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 hosting solutions
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. Detailed design and implementation documents should be submitted along with the tender documents.
6. Partial / incomplete offer will be disqualified
7. **Demo of Technical Capabilities for the scope of Tender:** The project's mandate has to be demonstrated within the date specified after the tenders are technically evaluated. Date and time, features to be demonstrated are to be fixed by Technical Committee after the tenders are technically evaluated.
8. **Warranty and Support:** Three years for all products and if it's a software subscription it should be for three years.