# CORRIGENDUM

**Clouding Tender i.e. Identity And Access Management - Security Services,Internet Connectivity,Load Balancer,Public IP etc on GeM Portal**

School of Open Learning, Delhi University is looking to hire cloud services to host data and utilize the system to handle the load for peak (during exam/results) and non peak hours/days/months. To ensure appropriate usage, Delhi University requires a cloud platform providing autoscaling capabilities and pay as you go model based on actual usage for the exam result duration as well as for the standard minimal usage of system.

(1) All the services/items should be mentioned on CSP website

(2) Self-service provisioning, monitoring and management of services through Programmatic interface and Web Portal should be available for all services/items.

(3) Ability to automatically increase/scale the number of instances of Virtual Machines (VM), Load Balancers, Managed Databases and all storage options during demand spikes to maintain performance.

(4) Schedule events for VMs, such as a reboot, stop/start, Pause and Resume, hibernate or retirement.

(5) The Managed Database services should be CSP managed only. Push-button and automated vertical scaling up/down of database instance. Easy storage scaling on-the-fly with zero downtime. Integrated role based access for users. Automated database snapshots. Should allow automated updates and patching and auto creation of Read Replicas on surge in usage.

(6) Every Managed Database service Instance should have minimum 20 GB SSD storage.

(7) Ability to increase the size of an existing block storage volume without having to provision a new volume and copy/move the data. Support for point-in-time snapshots, that are incremental in nature to speed up provisioning and recovery. Should offer server-side encryption of data at-rest, i.e. data stored on volumes and snapshots.

(8) Object Storage should support versioning i.e. the ability to store and co-exist multiple versions of an object, should have capability to create policies that can restrict access to the data based on user/request location and time of request, support server-side encryption (SSE) of data at-rest, support multi-factor authentication (MFA) for delete operations as an additional security option.

(9) Estimated Email Notification usage for 1 year is 100,00,000 (One Crore). Daily email sending quota should be flexible and support more than 2,00,000 emails in 24 hours period.

(10) Estimated SMS Notification usage of 1 year is 10,00,000 (Ten Lakhs) with capacity to send even 100000 SMS or more per day.

(11) Invoicing should be done on a monthly basis based on actual usage of services.

(12) System should be able to provide metering and billing of services like VMs, Storage, Managed Databases including Oracle licenses at hourly basis.

(13) In case hourly prices are not available, the same will be paid based on the pro-rata basis the monthly rate and actual usage of the service.