NO. CBSE/AFF./Circular/2023

Dated: 24.03.2023

Circular No. 10/2023

All the Heads and Managers of the schools

Subject: Implementation of Digital Infrastructure in CBSE Schools

Dear Principal,

CBSE as a national Board of education is required to play a critical role in implementing the National Education Policy 2020 by revising its norms and system in the area including digital infrastructure to align with the policy's objectives and to make schools stay up-to-date with digital tools and resources.

All the schools affiliated with CBSE are, thus, hereby directed to implement the following revised norms regarding mandatory digital infrastructure with immediate effect;

1. **Availability of computers with internet connectivity**
   - **01 (One) Computer System per 18 (eighteen) students** (Desktops/Laptops) inter-connected with a single LAN network with audio-video input and output (Webcam/Speakers etc.) with minimum of **40 such computer systems** including above accessories in the school computer Lab must be available in schools. Existing schools shall gradually enhance their infrastructure as per present guidelines.
2. **Installation of Server**
   - Server(s) - at least 01 computer system with high configuration to be used as a Server for Assessment/ Examination purposes.
3. **Data Backup provisions**
   - Data backup devices – either Cloud-based or Physical (external Hard Disc Device – HDD) for all kinds of data storage.
4. **Internet Connectivity**
   - Lease line / Wi-Fi with high-speed internet connectivity.
5. **Accessories**
   - At least 02 printers and 02 scanners per computer lab.
   - UPS - Mandatory to support all computer systems in lab for providing power backup to ensure uninterrupted power supply.
   - Licensed Softwares, including Anti-Virus and other Security Systems for the Digital infrastructure
6. **Smart Boards** – for effective classroom transactions.
7. Schools are once again directed to adhere to the **Guidelines for Safe and Effective Use of Internet and Digital Technologies in Schools and School Buses** issued vide circular number 32/2017 dated August 18,2017.

The mandatory requirement for the configuration of various machines is given in **annexure A**.

(**Anurag Tripathi**)
Secretary, CBSE

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(**Anurag Tripathi**)
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Required Configuration

1. Desktop

In case the schools use Desktop/ Laptop, they must have the following minimum requirements. The latest versions/ latest configurations should be procured, whenever new purchases are done by the schools.

OPERATING SYSTEM	● Recommended Operating System: Linux ● Schools can also have the Licensed version of Windows 10 or above.
BROWSER	Latest Microsoft Edge/ Google Chrome/ Mozilla Firefox with JavaScript. (It should be regularly updated, to overcome the security threats)
Processor (CPU):	Intel Core i5 (10th generation or newer) or equivalent
RAM	8 GB and above
Storage:	512 GB internal Solid State Drive (SSD) or 1 TB internal HDD having at least 50 GB free space
Monitor/Display	15-18" LCD monitor
Other	Internal or external Webcam, external hard drive for backups.

II. LAPTOP:

Processor (CPU)	Intel Core i5 (10th generation or newer) or equivalent
Ram	8 GB
Operating System	Recommended Operating System: Linux Schools can also have the Licensed version of Windows 10 or above. (whichever feasible for schools)
Memory	16 GB RAM
Storage	500 GB internal storage drive
Monitor/Display	15-18" LCD monitor
Other	Internal or external Webcam, lock, carrying case, external hard drive for backups.

III. SERVER

In order to perform various activities, the schools will be required to have servers with the following **minimum configurations:**

Processor (CPU):	Core i7 CPU, 16 GB RAM OR Intel Xeon D/E/W series with at least 8 CPU cores or more
Operating System:	Linux Windows 10 or above (Licensed version)
RAM:	16 GB and above
STORAGE	2 TB internal Solid State Drive (SSD) or 2 TB x4 internal HDD
MONITOR DISPLAY	15-18" LCD monitor
Other	Internal or external Webcam, external hard drive for backups.

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