



## केन्द्रीय माध्यमिक शिक्षा बोर्ड

(मानव संसाधन विकास मंत्रालय, भारत सरकार, के अधीन एक स्वायत्त संगठन)

शिक्षा सदन, 17, इन्स्टिट्यूशनल क्षेत्र, राउज एवेन्यु, दिल्ली-110002.

### CENTRAL BOARD OF SECONDARY EDUCATION

(An Autonomous Organization under the Union Ministry of Human Resource Development, Govt. of India)  
"Shiksha Sadan", 17, Institutional Area, Rouse Avenue, Delhi-110002



CBSE/ACAD/DIR(ART&I)/2013

Dated: 16<sup>th</sup> February, 2013  
Circular No. Acad-15/2013

All the Heads of Institution  
Affiliated to CBSE

**Subject: Roll out of Online Labs in CBSE affiliated schools across the country**

Dear Principal,

Online Labs for School Experiments (OLabs) is a novel e-Learning project developed by CDAC, Mumbai and Amrita University, Kerala and based on the concept of virtual learning environment.

OLabs works on **web environment** and provides experience in online practical science experiments. It has been developed for the students of **classes IX and X**, to enhance their understanding of experimentation concepts. The content is mapped and aligned to the CBSE curriculum for classes IX and X.

OLabs includes the study and use of mathematical techniques to demonstrate the various complex functions in diverse areas of science. The experiments are demonstrated using interactive simulations based on mathematical models, videos and rich interactive animations to create real world environments.

OLabs will help overcome the limitations faced by some students in a few schools in India due to either insufficient time or instruments in laboratories. It is also capable of assessing a student's observations, procedural and reporting skills, and will allow teachers to track the student usage, thus making learning more effective.

These virtual experiments will stimulate students interest and learning and will give them the experience of doing real lab work, by graphically resembling with Laboratory equipment and simulating a virtual medium. Students can practice these experiments at their leisure and may use this for revising the concept at the comfort of their home as many times as they wish. Teachers may specially find it very useful while demonstrating the experiments in class or in Laboratory as it will provide minutest details with complete clarity. This is likely to enhance the learning of the students.

OLabs has been developed in English however it will be available in other local languages also.

CBSE recommends OLabs to all the schools affiliated to the Board. For Kendriya Vidyalayas the roll out may be via ERNET, which provides network connectivity to all the Kendriya Vidyalayas. This is also to inform that OLabs is a facility which is available free of cost at [www.olabs.co.in](http://www.olabs.co.in) to all the schools affiliated to the Board.

Regards,

Vineet Joshi  
(Chairman)

**Copy with a request to respective Heads of Directorates/KVS/NVS/CTSA as indicated below to also disseminate the information to all concerned schools under their jurisdictions:**

1. The Commissioner, Kendriya Vidyalaya Sangathan, 18-Institutional Area, Shaheed Jeet Singh Marg, New Delhi-110 016.
2. The Commissioner, Navodaya Vidyalaya Samiti, B-15, Sector 62, Institutional Area, Noida-201 309.
3. The Director of Education, Directorate of Education, Govt. of NCT of Delhi, Old Secretariat, Delhi-110 054.
4. The Director of Public Instructions (Schools), Union Territory Secretariat, Sector 9, Chandigarh-160 017.
5. The Director of Education, Govt. of Sikkim, Gangtok, Sikkim – 737 101.
6. The Director of School Education, Govt. of Arunachal Pradesh, Itanagar- 791 111
7. The Director of Education, Govt. of A&N Islands, Port Blair-744 101.
8. The Secretary, Central Tibetan School Administration, ESS ESS Plaza, Community Centre, Sector 3, Rohini, Delhi-110 085.
9. All the Regional Officers of CBSE with the request to send this circular to all the Heads of the affiliated schools of the Board in their respective regions.
10. The Education Officers/AEOs of the Academic Branch, CBSE.
11. The Research Officer (Technology) with the request to put this circular on the CBSE website.
12. The Library and Information Officer, CBSE
13. PS to Chairman, CBSE
14. PS to Secretary, CBSE
15. PS to Controller of Exams, CBSE
16. PS to Director (Special Exams & CTET)
17. PA to Prof. & Director (Academic, Research, Training and Innovation)
18. PRO, CBSE.

**(Chairman)**