

E-mail: [directoracad.cbse@nic.in](mailto:directoracad.cbse@nic.in)

Website: [www.cbseacademic.in](http://www.cbseacademic.in)

Tel: 011 - 23212603



## 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)/Sci. Ex./2016

15<sup>th</sup> September, 2016

Circular No.: Acad.-37/2016

All Heads of Independent Schools  
affiliated to the Board

SUBJECT: ORGANIZATION OF CBSE SCIENCE EXHIBITION - 2016-17

Dear Principal

The Central Board of Secondary Education (CBSE) has been taking many initiatives to provide interactive, participatory, hands-on, innovative and creative learning experiences to students studying in its affiliated schools. One such initiative refers to the organization of Science Exhibition at Regional and National levels every year. The activity aims at providing a common platform to schools, teachers and students to give shape to their innovative ideas and learn from each other's experiences. These exhibitions also provide a medium for popularizing Science and increasing awareness among stakeholders about the close relationship between Science, Technology and Society.

Taking into consideration the enthusiastic response from participating schools in the past, it has again been decided to organize Science exhibitions for the academic year 2016-17. These exhibitions are likely to be organized in different parts of the country at **REGIONAL LEVEL** in the month of **November/ December in 2016** and at **NATIONAL LEVEL** in the month of **January/February in 2017**.

**The main objectives of organizing Science Exhibition for 2016 – 17 can be summarized as:**

- to provide a forum for children to pursue their natural curiosity, creativity, innovation and inventiveness;
- to make children feel that science and mathematics are all around us and we can gain knowledge as well as solve many problems by relating the learning process to the physical and social environment;
- to lay emphasis on the development of science and mathematics as a major instrument for achieving goals of self-reliance, socio-economic and socio-ecological development of the nation and the world;
- to analyze how science and mathematics have developed and are affected by many diverse individuals, cultures, societies and environment;
- to appreciate the role of science and mathematics in meeting the challenges of life such as climate change, opening new avenues in the areas of agriculture, fertilizer, food processing,

biotechnology, green energy, disaster management, information and communication technology, astronomy, transport, games and sports etc.

- to create awareness about environmental issues and concerns and inspire children to devise innovative ideas towards their prevention and mitigation.

### Theme and sub – themes for the Science Exhibition for 2016 - 17

THEME	SUB-THEMES
Science, Technology and Mathematics for Nation Building	<ol style="list-style-type: none"><li>1. Health</li><li>2. Industry</li><li>3. Transport and Communication</li><li>4. Innovations in renewable resources for sustainable environment</li><li>5. Innovations in food production and food security</li><li>6. Mathematical solutions in everyday life</li></ol>

#### NOTE:

- The students may prepare an exhibit/model on any sub–theme other than the above listed six sub–themes but it should be in the context of the main theme of the exhibition i.e. ‘Science, Technology and Mathematics for Nation Building’. Some ideas that are new and may be applicable in future may also be presented in the form of presentations and discussions.
- Any exhibit/model/idea developed by differently abled students should be displayed only by the differently abled student/s. The entries should be accompanied with a disability certificate issued from a competent authority. Disability norms followed by the Government of India will be considered under this category.
- Innovative exhibits/models made for the benefits of differently abled people would be highly appreciated.

#### Key aspects of the exhibition:

#### HOW TO REGISTER -

- (i) All schools willing to participate may fill up the **on-line registration** before closing date.
- (ii) The last date for filling the on-line registration form is **20<sup>th</sup> October, 2016**.
- (iii) The **registration fee of ₹ 650/-** must be submitted through **NEFT** to the account of the Board as given below.

Name of the A/C holder	Secretary, CBSE
Account No.	24172010004103
Name of the Bank & Branch	Syndicate Bank, CBSE Extn. Counter, New Delhi – 110002
IFSC Code	SYNB0002417

The Unique Transaction Reference Number after submitting fee through NEFT, must be mentioned in the online registration form.

- (iv) **The complete application including typed brief write-up (not more than 1000 words) for each exhibit and printed copy of the online registration form duly signed and forwarded by the Principal** is to be sent to the following address super scribed '**SCIENCE EXHIBITION 2016-17**' by **25<sup>TH</sup> OCTOBER, 2016**.

**MRS. ARCHANA THAKUR**  
**ASSISTANT PROFESSOR AND DEPUTY DIRECTOR**  
**CENTRAL BOARD OF SECONDARY EDUCATION**  
**"SHIKSHASADAN", 17, ROUSE AVENUE**  
**NEW DELHI – 110002.**

**RULES FOR PARTICIPATION:**

- (i) **Number of exhibits/projects/models-** A participating school can put up a maximum of two exhibits/projects/models.
- (ii) **School Team** -A school team may be represented by a maximum of two students per exhibit and one escort Science Teacher.
- (iii) School team participating at Regional Level and National Level must remain the same.
- (iv) Students studying in **Grade VI to XI in the current academic year i.e. 2016-17** are **eligible** to participate.
- (v) The exhibit/ project displayed and selected at regional level should be based on the theme and sub-theme selected.
- (vi) The sub – theme once selected cannot be changed.
- (vii) The exhibit/model may include –
- Working model to explain a concept, principle or a process
  - An indigenous design of a machine/device
  - An innovative/inexpensive design or technique
  - Application of basic principles of Science/Technology
  - Scheme/design of a device or machine to reduce production cost
  - Investigation based study
  - New and innovative ideas to the form of presentations
- (viii) The participating school/team will have to bear **all expenses** related to participation in the event.
- (ix) The participating teams will have to make their own **lodging/boarding arrangements** at the venue city of exhibition.
- (x) A few exemplar ideas pertaining to the sub – themes listed in the context of the theme for the development of exhibits are enclosed as Annexure – I.
- (xi) It is mandatory to submit a neatly typed brief write up (not more than 1000 words) about the exhibit / ideas for presentation at regional as well as national level at the time of registration as per the given performa enclosed at Annexure – II.
- (xii) The exhibits will be **assessed** by the experts as per the following **criteria**:

a. Students' own creativity and imagination	20%
b. Originality and scientific and mathematical innovations in the exhibit/model	15%
c. Scientific thought/principle/approach	15%
d. Technical skill, workmanship, craftsmanship etc.	15%
e. Utility for Society, scalability/educational value	15%
f. Economic (low cost), portability, durability, scope of its applicability in future etc.	10%
g. Presentation – aspects like demonstration, explanation and display	10%

#### GENERAL GUIDELINES:

- (i) The first stage of exhibition will be held at different venues in every region. The information regarding the venues will be circulated / notified later on.
- (ii) The selected best eighteen (the numbers may increase or decrease depending on the quality of the exhibit) exhibits at every regional level venue will be eligible to participate in the National level exhibition.
- (iii) The actual dates for the regional level will be communicated to every school and details will also be available on CBSE website [www.cbseacademic.in](http://www.cbseacademic.in) by the mid of November, 2016.
- (iv) Schools are advised to follow CBSE's guidelines available on CBSE website.
- (v) Each participant of the Regional Level Science Exhibition would be awarded a 'Certificate of Participation'. Each winner of Regional and National Level Science Exhibition would be awarded a 'Certificate of Merit'.
- (vi) Attractive awards/cash prizes will be given to exhibits/students who are among the best twenty one models at the national level.
- (vii) The names of the winners of the National Level Science Exhibition will be forwarded to NCERT for their consideration for participation in 44<sup>th</sup> Jawaharlal Nehru National Science Mathematics and Environmental Exhibition for Children in 2017 to be organised by NCERT. The winners of National level science exhibition may also get an opportunity to attend a mentoring camp and National Fair (2017) to be organized by Initiative for Research and Innovation in Science (IRIS). The confirmation for the participation in the aforementioned programmes is subjected to their selection for the same.

The above information may be brought to the notice of all concerned, particularly the science faculty in the school and the students. For any other information in this regard, you may contact at **Tel. No.-011-23230328 or email at [sciexhb2016@gmail.com](mailto:sciexhb2016@gmail.com)** with a copy to undersigned.

You may also send any specific suggestions or observations in this regard to the undersigned at the above e-mail address.

Yours sincerely,

Sd/-

**K. K. Choudhury**

**Director (Academics, Research, Training & Innovation)**

**Copy to the respective Heads of Directorates, Organizations and Institutions as indicated below with a request to disseminate the information to all the schools under their jurisdiction:**

1. The Commissioner, Kendriya Vidyalaya Sangathan, 18-Institutional Area, Shaheed Jeet Singh Marg, New Delhi-110016.
2. The Commissioner, Navodaya Vidyalaya Samiti, B-15, Sector-62, Institutional Area, Noida-201309.
3. The Director of Education, Directorate of Education, Govt. of NCT of Delhi, Old Secretariat, Delhi- 110054
4. The Director of Public Instructions (Schools), Union Territory Secretariat, Sector 9, Chandigarh-160017.
5. The Director of Education, Govt. of Sikkim, Gangtok, Sikkim – 737101.
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 - 744101.
8. The Director of Education, S.I.E., CBSE Cell, VIP Road, Junglee Ghat, P.O. 744103, A&N Islands.
9. The Secretary, Central Tibetan School Administration, ESS Plaza, Community Centre, Sector 3 Rohini, Delhi-110085.
10. The Additional Director General of Army Education, A –Wing, Sena Bhawan, DHQ, PO, New Delhi- 110001.
11. The Secretary AWES, Integrated Headquarters of MoD (Army), FDRC Building No. 202, Shankar Vihar (Near APS), Delhi Cantt-110010.
12. The Under Secretary, (EE-I), Ministry of Human Resource Development, Shastri Bhawan, New Delhi
13. All Regional Directors/ 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.
14. All Associate Professor & Additional Directors/ Advisors/ Consultants/Education Officers.
15. All Joint Directors/ Deputy Directors/ Assistant Director, Vocational Cell.
16. The Officer in charge of I.T. with the request to put this circular on the CBSE websites.
17. All Assistant Professor & Joint Directors, CBSE
18. All Assistant Professor & Deputy Directors, CBSE
19. SPS to Chairman, CBSE
20. SPS to Secretary, CBSE
21. SPS to Controller of Examinations, CBSE
22. SPS to Director (Information Technology)
23. SPS to Director (Special Exams and CTET), CBSE
24. PA to AD & IC (R&I)
25. The Public Relations Officer, CBSE
26. The Assistant Librarian, CBSE

**Director (Academics, Research, Training & Innovation)**