

**Government of India  
Ministry of Human Resource Development  
(Department of School Education and Literacy)**

**RASHTRIYA AVISHKAAR ABHIYAN (RAA)**

In Himachal Pradesh, 72 schools have been identified as lab schools. Steering Committee has been constituted and notified by the government under RAA. Meetings have been organized to discuss the RAA activities. Two mentoring institutions (NIT Hamirpur and IIT Mandi) for RAA have been identified by the GOI. Regular meetings with these institutions have been conducted. Besides NIT Hamirpur and IIT Mandi, all the districts have identified mentoring institutes like Central Universities, Colleges, Engineering Colleges, Agriculture University Palampur, Horticulture University at Nauni. All the Identified lab schools under RAA have submitted proposals for implementation of RAA in which different activities have been planed as per need.



*Consultation on RAA at NIT Hamirpur*

**Activities implemented under RAA**

Sl. No.	Activity	Level	Status
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1	Exposure visit of meritorious girls of class VI to VIII to Science City Kapurthala.	District	Activity has been completed
2	Meetings of Steering Committee	State	Two meetings have been organised

3	Orientation/Meetings with Deputy Directors (HE/EE), District Project Officers (SSA/RMSA) regarding implementation of RAA activities	State /District	Three meetings at State Level and Three at district level.
4	Participation in Children Science Congress (CSC)	Block , District and State Level	Science Quiz, Mathematics Olympiad, Activity Corner, Survey Report, Innovative Science Models, Science Skit. <b>Outcomes</b> 15089 children participated at sub-division level CSC 3124 students participated at district level. 16 Children participated in National Science Congress.
5	Science and Mathematics Exhibition at School Level.	School Level	Under RAA initiative to improve learning levels in the subject of Science and Mathematics, Science Fairs, Exhibitions and competitions are being organized in a big way. Community has also been involved during this exhibition.
6	Science and Mathematics Quiz at school level	School	All RAA schools have organised Quiz Competitions.
7	Exposure of students (through guest lecturer and visits to different project sites and departments of agriculture and horticulture)	School level	Schools of Chamba, Kullu, Hamirpur, Mandi and Solan districts have been gave opportunities to students.
8	Development of "Science Centre" at DIET <b>APJ Abdul Kalam Vigyaan Kendra</b> - an initiative by district Bilaspur	District	To create a room, where teachers, students and community from different corners of the district could explore and work on the idea a " <b>Science Centre</b> " " <b>APJ Abdul Kalam Vigyaan Kendra</b> " with Science Lab and Park has been established at DIET Bilaspur.
9	Orientation of School heads and science mathematics teachers of Lab schools	State and District level	All the Science and mathematics teachers of 72 schools have been oriented at State level workshop to implement RAA activities.
10	Development of Mathematics lab	School	All schools under RAA have Science Labs but there are no separate Mathematics Labs. All schools have started working to establish

			Mathematics Labs.
8.	Strengthening of Science Labs.	School	All 72 schools have started strengthening the Science Labs.
8	Development of Botanical Labs	School	Botanical labs are also being developed by RAA schools.
9	Teachers' circles	School	Science and Mathematics teachers' groups have been formed through face book and whatsapp.
10	Students Science and Mathematics clubs	School	At school level, students Science and Mathematics clubs have been formed. They are being actively involved in conducting Science and Mathematics exhibitions, competitions, display of material and organising Environment, Mathematics and other important days related to science and mathematics.
11	Convergence with mentoring institutes.	District level	All districts and even heads of RAA lab schools have identified mentoring institutes. Convergence meetings have been organised.

## DEVELOPMENT OF SCIENCE CENTRE IN DIET BILASPUR



To further strengthen RAA & to create a room, where teachers, students and community from different corners of the district could explore and experience the idea, Science Center “**APJ Abdul Kalam Vigyaan Kendra**” with Science lab and park at DIET Bilaspur has been developed with following objectives;

- 1) To create a stimulating and engaging learning environment for children to explore Science.
- 2) To develop a spirit of inquiry among children and community.
- 3) To exhibit, popularize and to link Science in everyday life.
- 4) To hit innovative ideas among teachers (Pre service & in service).
- 5) To connect school based knowledge to life outside the school.

Teachers, SMC members, School Heads and students are also invited to visit the Science Centre at the DIET during the organization of various events. A big room is being utilized as a part of Science Centre where some equipments have been added & displayed and a space has been left for hand on activities by the visitor students.

- A separate entry gate has been constructed so that routine activities do not get affected by the visitors.
- There are medicinal plants in the DIET campus. The space is being developed as a Botanical Garden / Science Park. The garden will also include vermicompost plants, butterfly garden etc.
- Specified CWSN friendly path (3 feet wide) has been developed all around the park.
- In Science Park, parabolic dish, Sun dial, Periscope, butterfly garden, vermicompost, PSLV model, Solar cooker etc. will be established in current session and more equipment would be added in coming year with proper protection.
- In Science centre lab, telescope, Microscope, Physics & biology models have been displayed. A corner has been developed for Science related books. Space has been created for hand on activities where visitors, teachers and students do activities by raw material under the guidance of Quality Coordinator. Every corner of the room will be utilized for science related activities.



## APJ ABDUL KALAM VIGYAN BHAWAN



SCIENCE PARK

A Science Exploratory Centre has been set up with science models, equipments, raw material for hands on activities, Science Park, reading material and ICT equipments.

Multiple activities will take place both inside and outside Science Exploratory Centre serving as a resource hub.

Location	Activity	Target Group	Outcomes
INSIDE THE CENTRE	Workshops with children (on weekends after school time)	Children from the local communities (and/or) from schools.	To create a stimulating, engaging learning environment for children to learn and explore Science. Thereby, children develop a scientific bent of mind. The centre also serves as a space for other learning activities like studying etc.
	Workshops with community members	Youth and adults from the community who are curious about the centre or are keen to volunteer/teach	To build scientific awareness among youth, to invest them in the education of children in their communities.



<b>Location</b>	<b>Activity</b>	<b>Target Group</b>	<b>Outcomes</b>
	Exposure visits	Visitors from schools, Govt. officials , DIET faculty/students, community and other organisations	These visits are conducted to understand the 'learning by doing' approach; to understand the program model and activities.
<b>OUTSIDE THE CENTRE</b>	Workshops in schools	Students of classes 6-8. Workshops and Science fairs in schools will be conducted.	To create a stimulating, engaging learning environment for children to learn and explore Science. Thereby, children develop a Scientific bent of mind.
	Community engagement activities Awareness workshops, film screenings, sky watching	Village community members of all age groups.	To build awareness in the community of concepts like 'Food adulteration', 'Hygiene and sanitation' and activities like sky watching.
	Training sessions	DIET students, school teachers etc.	To share the 'learning by doing' approach with other teachers and stakeholders.