

DBT's Natural Resource Awareness Clubs

Andaman and Nicobar Islands

A programme of

DEPARTMENT OF BIOTECHNOLOGY
PRESENTS



Regional Resource Agency Report - 2007-9

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सत्यमेव जयते

Sponsored by

**National Bioresources Development
Board (NBDB)
Department of Biotechnology,
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Government of India**



Organized by

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INTRODUCTION

The DNA Clubs (Department of Biotechnology's Natural Resource Awareness Clubs) Program launched by National Bioresource Development Board (NBDB) under the Department of Biotechnology (DBT) to enhance the developing better awareness on issues concerning biodiversity and bioresources amongst school children. It is a bold initiative from DBT that seeks to engage school students with the green world of Bio-resources and fight against deterioration of our natural wealth. School students are considered one of the priority target groups to be reached out. DNA Clubs are continuously awareness creating programme along with student's academic progress and providing maximum chance for exposure on nature.

DNA Clubs of Andaman Islands is a unique among other Clubs. The DNA Club members are very much interested in nature and have very much curiosity to know about their surrounding. They are actively participated each and every DNA Club programmes without any hesitation.

The prime objective of the DNA clubs is: *are*

- To promote interest and knowledge about the natural resources and the environment among the emerging generation.
- To foster concern to protect the bioresources and natural heritage
- To increase awareness of the economic, cultural, scientific and aesthetic values of fauna and flora.
- To provide opportunities to acquire attitudes, values and skills needed to protect and improve the natural environment.
- To make aware the impact that emerging technologies (including biotechnology) have on maintenance and enhancement of Bioresources.

Identification of Schools

It is essential to take absolute care in identifying first set of Schools who could be entrusted with the organization of "DNA clubs". The interesting School was selected through "**Teachers Training and Orientation Programme**". This programme conducted during the school working days with duration of two days.

Based on the interest and interaction among the teachers, the schools were selected where the DNA clubs could be organised. This will ensure entrusting the

activities of the DNA clubs to enthusiastic teachers who would be the focal points in organizing and monitoring of the programmes in their schools.

It should also be taken into account that a mix of schools is selected representing different category of schools (Central schools, Govt schools. & private schools). The nominations for the teachers for participating in the Programme could either be through advertisements or through writing letters to the principals of various schools – explaining the details of the course as well as the purpose of conducting such courses.

List of Selected schools

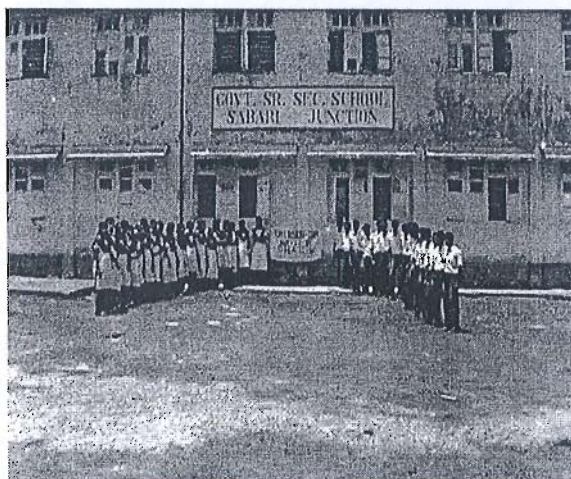
No	Name of the School	Adress of the School	No: Students selected	Name of the coordinating teachers
1	Kendriya Vidyalaya No.1	Kendriya Vidyalaya No.1 Near Aberdeen Bazar, Port Blair South Andaman-744101	82	M.T Raju (PGT Bio) & Uma Sanker Yadav (TGT Bio)
2	Govt: Senior Secondary School	Govt: Senior Secondary School Sabari Junction, Rangat Middle Andaman	75	Dr. S.K Mandal
3	Govt: Model Senior Secondary School	Govt: Model Senior Secondary School, Myabunder, Middle Andaman	50	Mrs. Beena Daniel & Mr. Om Prakash
4	Govt: Model Senior Secondary School	Govt: Model Senior Secondary School, Diglipur, North Andaman	58	Mrs. Sanjeeta Dabrath (PGT) & Mr. Natarajan
5	Govt: Model Senior Secondary School	Govt: Model Senior Secondary School, Hut Bay, Little Andaman	50	Mrs. Pooja Lal (PGT Bio)

1. Kendriya Vidyalaya No.1, Port Blair

Kendriya Vidyalaya No. 1, Port Blair, is situated in the centre of Port Blair, South Andaman. Functioning under the Ministry of Human Resource Development, Govt. of India. The school comes under the Kolkata region of Kendriya Vidyalaya Sangathan. DNA Club of Kendriya Vidyalaya No.1 has become a unique body in the Vidyalaya by the guidance of DNA Club school coordinator M.T Raju (PGT) & Uma Sanker Yadav(TGT). From this school 82 students selected. They are very much enthusiastic and eager to take part in all activities of the DNA Club. This is because the way they start doing the work, the way they investigate, the way they analyse the thinks, what they have observed, what they have learnt, what they have to investigate and so on.



2. Govt. Senior Secondary School, Sabari Junction, Rangat

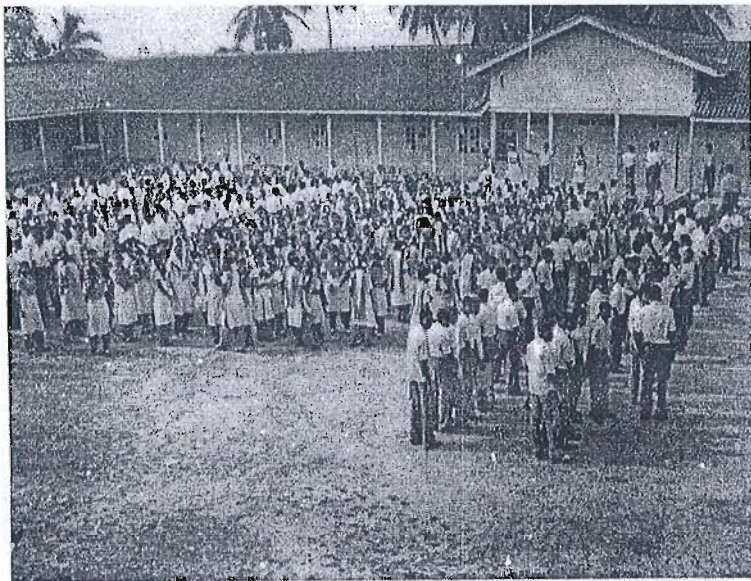


Govt.Senior Secondary School, Sabari Junction, Rangat, is an English medium school, science stream located in South part of Middle Andaman 3 km away from the Rangat Bazar. The strength of student around 500 in all, it starts from VI class and each class except XII class have two sections. This is the most prestigious school in the Middle Andaman zone. From this school total 75 students were selected for the DNA Club and divided into two

groups that are Junior Group (VI class to VIII class) & Senior Group (IX class & XII class). The DNA Club school coordinator Dr. S. K. Mondal and Principal Mr. Jha lead the club members. Each DNA Club member has been issued a note book and pen for recording information derived from their observation.

3. Govt. Model Senior Secondary School, Mayabunder

Govt. Model Senior Secondary School, Mayabunder located at Pokadera village

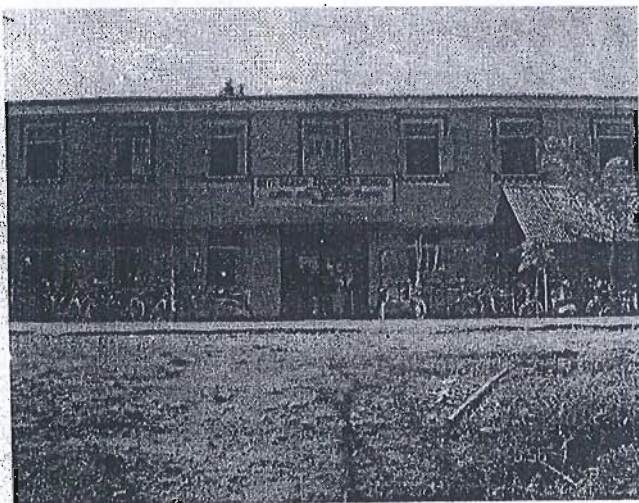


of Middle Andaman. The schools situated on a hill top surrounded by trees. The school has strength of about 1000 students studying, it comprises of different types of medium such as English, Hindi, Tamil and Telugu. Among these students were selected from different medium for DNA Club members. They are very much concerning about nature and scientific aspects. DNA Club school

coordinators Mrs. Beena Daniel and Mr. Om. Prakash always enhance and assisting student's scientific activities.

4. Govt. Senior Secondary School, Diglipur.

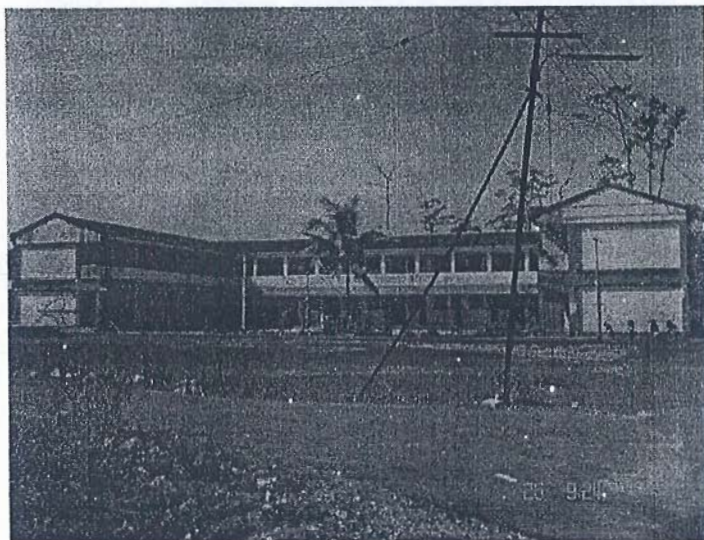
Govt. Senior Secondary School, Diglipur, is situated in the centre of Diglipur town in North Andaman, and 24 km away from the Saddle Peak National Park. Around 1200 students studying in four medium such as English, Hindi, Tamil and Bangali. A total of 55 students were selected on the basis of their interest for the DNA Club. All senior and junior DNA Club members are very much enthusiastic and keen interest to take part in all activities of the DNA Club by the guidance of Mrs. Sanjeetha and Mr. Natarajan. All DNA Club activities highly supported by principal Mr. Vijayakumar. Each



DNA Club member has been issued a note book and pen for recording information derived from their observation.

5. **Govt. Senior Secondary School, Hut Bay.**

Govt.Senior Secondary School, Hut Bay located at Little Andaman Islands, it



comprises of four medium such as English, Hindi, Tamil and Telugu and have around 500 students were studying here. From this school 55 students were selected for DNA Club and separated into two group (Junior group and Senior Group) same like other school and each DNA Club member has been issued a note book

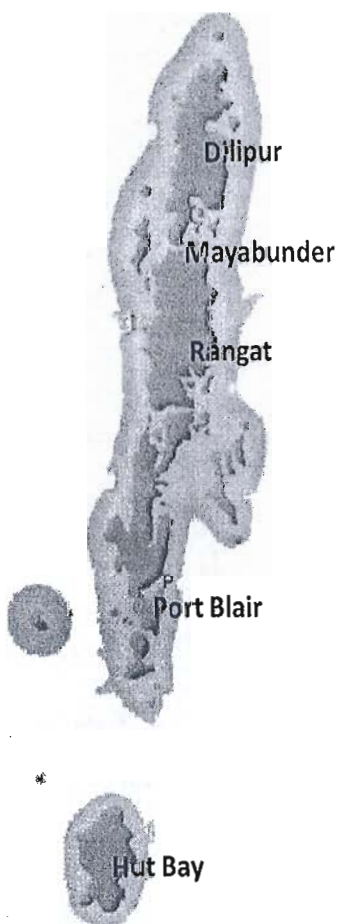
and pen for recording information derived from their observation.



Location of Schools

We are selected five schools in the Andaman, which are situated different places in main Islands of Andaman such as North Andaman, Middle Andaman, South Andaman and Little Andaman.

ANDMAN ISLANDS



Activities conducted in each school

The DNA Club members of the School were divided into two groups. Group-I is junior group from the class 6th to 8th class and Group-II having seniors from the class 9th and 11th class. Each DNA Club member has been issued a note book and pen for recording information gained through DNA Club activities. All the schools were provided essential equipments such as computer, printer, binocular, field guides laboratory equipments such as hygrometr, haematometer, digital balance during the period.

Dr. P. Pramod, Principal coordinator of DNA Clubs in Andaman, is really igniting and inspiring the young minds of DNA Club members to progress their work without bothering about any kind of hurdles come across their path of progress. Whenever he visits Andaman, he gives lectures and enhances student's scientific investigation. Mr. Rajamamanan, RRA represent of DNA Clubs in Andaman gave lecture on "Endemism in Andaman and Nicobar Islands" and "Wetlands and their importance in Andaman Islands" to all DNA Club members of five schools. Mr. Rajan RRA represents of DNA Club in Andaman visited all Schools regularly to monitor the DNA Club activities and guides all students as and when needed, he has given lecture on Biodiversity of Andaman and Nicobar Islands to all school DNA Club members. The DNA Club activities are ordered and executed in the form of:

1. Lab experiments.
2. Field Observation.
3. Exposure trip.
4. Invited lecture.
5. Wildlife film show.
6. Competition.
7. Projects.



Lab experiments: Students have been experimenting in the lab with the help of the equipments available in the lab, some of the equipments provided by SACON such as

Water testing kit, Haemetometer, Hygro-thermometer, etc. The following are the activities undertaken by the members:

- a) Blood cell Identification.
- b) Water quality testing with use of different samples.
- c) Onion root tip experiment for cell division study
- d) Anatomy of the Flowers.
- e) Leaf cell identification especially stomata with use of microscope.
- f) Animal cell Identification with use of microscope.

Field Observation: Students have their own observation note book provided by SACON to record the observations what ever they observe from nature during the nature walk regards their projects and other interesting observations from the nature.

Invited lecture: Invited lectures from locally available resource persons to improve the knowledge of the students either pertaining to their projects and about our nature. The DNA Club provided Honorarium Rs: 500 to the invited resource person. This lecture has been delivered with help of LCD projector provided by SACON or available in the school.

Exposure Trip: For all the schools educational field trips were conducted to the nearby biodiversity rich area accompanied by the scientists. Students visited to the important conservation areas such as Saddle Peak National Park, Chidiyatapu Biological Park, Kalpong Hydroelectric project area, Ramnagar Beach, Forest area of Panchavati, Nearby sea shores etc for the study of biodiversity of the area and documentation.

Competitions: The competition such as Painting, Drawing, speech, Quiz, etc highlighting the role of science were conducted in the Govt. Model. Sr. Sec School, Mayabunder and Govt. Sr. Sec school, Rangat. DNA Club Logo competitions were conducted in all five schools. Participants are not only DNA Club members, all interesting students from the school were participated in the competitions.

Wildlife film show: The movie on wildlife "Pole to Pole" documented for the DNA Club members. Whenever Wildlife film showed to the DNA Club members, they have gained information about other side of the World than their daily observation and also

learnt about different types of biodiversity of the World, way of living, adaptation methods and so on.

Projects, Invited lectures and Field exposure conducted in each school

1. Kendriya Vidyalaya No.1, Port Blair



Individual Projects:

Students have been divided with in the Group-1 & Group-II and students have their own group projects to work on. It is highly appreciated by the respected principal of the Kendriya Vidyalaya Mr, Meena. Being the man of Physics, Mr. Meena has become the man

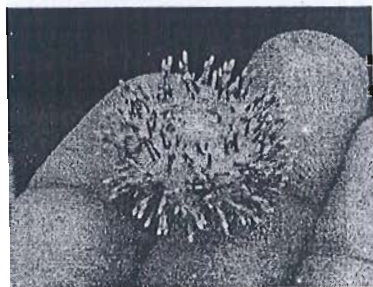
of inspiration to start the projects in an investigatory and analytical manner. The coordinating teachers are always assisting the students work and provide correct guidance to the children's activities. Some of the projects undertaken by the students are.

Group-I

1. Ecology of Common Myna
2. Water Pollution in Port Blair
3. Drainage System
4. Ecology of house Sparrow
5. Mangrove species of Andaman Islands.

Group-II

1. Common Birds of South Andaman
2. Importance of Mangrove plants as coastal defence personnel.
3. Mushroom culture
4. Biodiversity of Andaman and Nicobar Islands
5. Medicinal Plants of Andaman and Nicobar islands
6. Making and maintenance of Aquarium.



7. Common Butterflies of Andaman Islands
8. Monitoring of House Sparrow.
9. Pollution and Spread of communicable diseases.

Group Project:

Group-I students have been working together on the pollution and Spread of communicable diseases for the study of pollution related problems in and around Port Blair. They Identified some areas where open drainages have become serious threat to the public of Port Blair and going to finalize the report on it along with the evidences in the form of photographs to submit the Honorable Lieutenant Governor of the Islands and to the Municipal Chairman, PBMC for immediate action to cover the open drains or modernize with underground drainage system to avoid various epidemic disease such as malaria.

Invited lectures:

A lecture on “Conservation of Marine turtles” delivered by Mr.Graham Durai, Deputy Conservator of Forests, Department of Environment and Forests, A& N Islands Administration. He was explained about the marine turtles life and

their importance of conservation to the childrens. Further he requested and given the conservation measures to the children’s that to avoid plastics, to inform the forests staffs or officers regarding turtle sighting/nesting and Discourage usage of trophy of turtles.



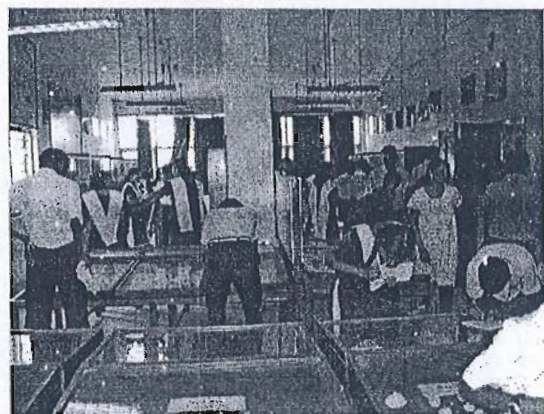
Dr. Devkumar Bhadra form Institute of Geomagnetism, Andaman branch, has given lecture on 17th October’2008 about Biodiversity, Study of seismic waves, and effect of Tsunami, to students. This lecture has been delivered with help of LCD projector available in the School. Mr. Xavier from Coimbatore, talk with group –I students on 4th

December’ 2008 and gave correct direction to students for their future, It is very much

appreciated by all members as his talk has transformed the students from being introverts to vibrant personalities.

Field exposure:

DNA Club members visited various scientifically worthy places in and around Port Blair to observe the things personally and learn from it. During these trip students were collected information regarding their project and learned some thing about nature through direct observation. All possible information was noted in their field note book. The following are rhe some of the places visited so far:



1. Zoological Survey of India, Port Blair
2. Anthropological Museum, Port Blair.
3. Biological Park, Chidiyatapu.
4. Carbyn's Cove and Chidiyatapu beach for the study of marine life.
5. Mahatma Gandhi Park for the study of butterflies and flowering plant.



2. Govt. Senior Secondary School, Sabari Junction, Rangat

Field exposure:

DNA Club members of the both groups were visited along the sea shore and adjacent forest area of Panchawati. The boys members surveyed the natural fountain.(A source of fresh water) flows from Panchawati Hill towards the sea through out the year and the girls members studied the biodiversity along the sea shore of the Rangat. These survey was carried out under the DNA Club School coordinator Dr. S. K. Mondal and Principal Shri DP. Gupta. All possible data collected by student and make into report. These reports submitted to the DNA Club coordinator of the school.

Group Project:

Students have been divided with in the Group-1 & Group-II. Every junior member is supposed to do project on particular classes of insect from their surroundings and house. Every senior member is supposed to do project about medicinal plant in and around Rangat which are available and used by the people of the Rangat. The coordinating teachers and Principal are always assisting the students work and provide correct guidance to the children's activities. All possible information was noted in their field note book provided by SACON. The members of the both group are directed to submit their reports as the annual examination over.



3. Govt. Model Senior Secondary School, Mayabunder

Invited Lecture:

A guest lecture on the topic 'Biodiversity of Saddle Peak National Park' was conducted in the school as a forthcoming study tour to Saddle Peak National Park. The resource person created an interest about the biodiversity of Saddle Peak among the students through his lecture. Some clippings of flora and fauna of Saddle Peak were also shown on the occasion.

Field exposure: The Club members were taken to Kalpong Hydro electric power project at Diglipur which is only one its kind in Andaman and Nicobar Islands. Children visited concrete and Rock structures of the Dam and Reservoir there and watched with curiosity the power house and they were explained the principle behind power generation from flowing water. After that students visited Saddle Peak National Park which is highest peak in Andaman and Nicobar Islands. During these trip walked about 1.5 hours through forest and sea shore. Later all of them climbed the Saddle peak in about 2.5 hours. They observed diversity of birds, plants insects characteristics of forest, etc and noted in their field note book. The coordinating teachers Mrs. Beena Daniel and Mr. Om. Prakash always assisting the students observations and clarify students doubt.

Individual Projects:

DNA Club members divided into different groups on the basis of their class and selected a leader for each group. Each student group containing five students and they selected their own projects. The coordinating teachers are always assisting the students work and guided to the children's activities. Some of the projects undertaken by the students are:

1. Diversity of wild flowers in the Mayabunder.
2. Medicinal Plants in Mayabunder.
3. Diversity of leaf and leaf architecture.
4. Butterfly diversity in Mayabunder.
5. Mangrove birds in Mayabunder.
6. Shells and other marine life in coastal line of Mayabunder.
7. Plant diversity in school campus.
8. Ecology of house sparrow.

A guest lecture on the topic **composting and related Agricultural Practices** is being planned. Children will be asked to do some gardening during summer vacation and submit reports on school reopening.

4. Govt. Senior Secondary School, Diglipur.

Field exposure:

The DNA Club members of junior and senior groups were visited Ramnagar beach and Kalpong hydroelectric project. The trip was organised on 24.01.09. All DNA Club members were actively participated in this trip. . From the Ramnagar beach students observed diversity of flora and fauna of Ramnagar beach and all information collected to their field note book. After that students visited Kalpong hydroelectric power projects. The DNA Club coordinator of this school Mrs. Sanjeetha Debranth and Mr. Natarajan gave explanation for the observed phenomena in the trip and enhance their scientific temperament.

Individual projects:

The junior group of DNA Club members were engaged with some simple projects like individual bird observation and data are noted in their note book. Each of the junior group student observed one particular species of bird such as Bulbul, Sparrow, Crow, Myna, some junior group



member selected project about Butterfly species. All junior members were also done water analysis test to measure the pH, chloride , Sodium, etc.

All senior members divided into different groups and selected a leader for each group. Each student group containing 7-8 students and they selected their own projects such as:

1. Pattern of use of pesticide, insecticides and chemicals fertilizers in the field of Diglipur areas.
2. Occurrence of water born disease in the people of Diglipur.

3. Leptospirosis disease and its occurrence in Diglipur.
4. Effect of pesticides in agricultural field of Diglipur.

5. **Govt. Senior Secondary School, Hut Bay.**

Invited Lecture:

District Forest Officer from Little Andaman Island, has given lecture about Biodiversity, to DNA Club members of the school. This lecture has been delivered with help of LCD projector available in the School.

Mr. Xavier from Coimbatore, talk with some members on 1st December' 2008 and gave correct direction to students for their character modelling, It is very much helpful to students and his talk has transformed the students from being introverts to vibrant personalities.



Vacation Training Programme

The DNA Clubs of Andaman and Nicobar Islands conducted Vacation Training Programme between 24th may'08 and 12th june'08 at Krishi Vigyan Kendra (KVK), Sippighat, CARI, Port Blair. Selected 20 school students of Andaman Islands (who are waiting for 10th exam result) were attended. The division of Nature education of SACON organized this programme. One of the major objectives of the programme is to inculcate the awareness about nature and the natural resources to the students, it has given us an opportunity to work with a selected set of students in a comprehensive way. Fortunately, we have received the DBT grant and we could complete the programme with considerable success. This vacation training programme has planned as a complete residential camp from where the students will return home only after the completion. All of them stayed in KVK for 20 days along with the Principal Coordinator of the DNA Clubs, Andaman, scientists and RRA represents from SACON during the whole camp.

During these days participants have listened to nearly 45 lectures regarding different topics delivered by 27 resource persons especially scientist, they are coming from the various institute. The field visits were conducted to scientific museum in Port Blair, Scientific Institute and biodiversity rich areas in Andaman Islands to learn and experience the diversity of bioresources accompanied field taxonomists and ecologists. Late in the evenings, they have seen movies on Bioresources and ecology, had discussions with research scholars and scientists.

The Process of selection

Full details about the course were publicized through daily Telegram news paper and also announced through Radio channel of Andaman and Nicobar Islands By the cut off date, with this publicity we have received 52 applications. Along with the application, we have asked to submit write-ups by the student, regarding why the student is interested in this course. The received applications were evaluated short listed and finalized by the Principal Coordinator of the DNA Clubs Andaman and RRA represent of SACON. First priority was given to the student's interest, (basedon their wтите up about their interest), The medium of instruction of the student was not taken as a constraint for the selection.

World Environmental day Celebration.



During the Vacation Training Programme, World Environmental day Celebrated in Association with Botanical survey of India, Port Blair. After Inaugurating the programme, Dr. C. Murugan, Scientist of BSI stressed the importance of the conservation of bioresources in the present age of high risk of environment degradation. Other

experts who spoke on the occasion, included Dr. P. Pramod(VTP Course director), Dr. K. P. Rajesh of BSI and Dr. K. A. Subramanian (Scientists, ZSI, Pune). The students were then guided to the inner part of the Botanical Garden by the experts of BSI, which enable them to have a close look at the Plant wealth of the Islands conserved in a systematic way. Shri. CVC. Pandian, Director of Science and Technology, Port Blair, Dr. P. Pramod(VTP Course director) and Dr. K. A. Subramanian (Scientists, ZSI, Pune) planted a seedling of Kona or Cowa a rare and endangered tree of Andaman Islands , in the presents of participants.



List of Resource person and their lectures in VTP

Sl.No	Name & Address	Topic
1	Dr. Ravishankaran, Scientist, SACON, Coimbatore	1. Importance of Andaman and Nicobar Islands with reference to Narcondam Hornbill.
2	Mr. Ajay Saxena, Coservator of Forests, Andaman and Nicobar, Port Blair	2. Coral Reef ecosystem especially in Andaman Coastals
3	Dr. K. A. Subramanian, Scientist, WRS, ZSI, Pune	3. Insects of the World. 4. Wetlands in India. 5. Biology of Dragonflies and Damselies and their importance in the environment. 6. Aquatic insects.
4	Mr.E. Kunhikrishnan Sr. Lecturer, University college, Trivandram	7. Amazing nature, 8. Hot spots and Biodiversity of the World 9. Extinction. 10. Himalayan Ecosystem. 11. The Life of Butterflies and Moths.
5	Dr. Rishikesh Sinha, Sr. Scientific Officer, Science and Technology, Andaman Adnistration	12. Importance of Scientific observation in school children
6	Dr, T.V.R.S. Sharma, Sr. Scientist and Head of Field crops Division, CARI, Port Blair	13. Sanjeevani Medicine in relation with Ramayana
7	Dr. Grinson George, Scientist, Division of Fisheries, CARI, P/B	14. Satellite Oceanography relevance to islands
8	Dr. L. B. Singh. Scientist, Krishi Vigyan Kendra, Sippighat, CARI, Port Blair	15. Weeds of Medicinal importance
9	Dr. Abhaa Kumar Singh. Scientist, Krishi Vigyan Kendra, Sippighat, CARI, Port Blair	16. Nicobar Fawis and Domestic Cattle Management.
10	Dr. Kanakalatha. Scientist, Krishi Vigyan Kendra, Sippighat, CARI, Port Blair	17. Climbers and Shrubs of Andaman Islands
11	Mrs. Ravathi. M, Director TOFARM, Trichy, Tamin Nadu	18. Effect of Tsunami in Agricultural land of Nagapanam. 19. Agriculture and their threats

12	Mr. Gopal, Project Officer, CPREEC, CARI, Garacharma Port Blair.	20. Marine Ecosystem of Andaman Islands
13	Mr. Alexander. Luknow , Mayabunder	21.
14	Mr. Manchiu Sirish, Senior Research fellow, SACON. Coimbatore	22. Bioresource conservation in India with reference to a case history of Edible nest Swiftlet in Andaman
15	Dr. Sivaperumal, Scientist, Regional station , ZSI, Port Blair	23. Wetlands and conservational importance of wetlands in India
16	Dr. P. T. Rajan, Sr. Scientist, Regional station ZSI, Port Blair	24. Coral ecosystem.
17	Mr. Rajamaman, Senior Research fellow, SACON. Coimbatore	25. Avifauna of Andaman and Nicobar Islands. 26. Endemism in Andaman and Nicobar Islands.
18	Dr. Devakumar Bhadra, Scientist, Indian Institute of Geomagnetism, Andaman and Nicobar station	27. Magnetic nature of Earth.
19	Dr. Satua Pal Yadav. Sciedntist, Animal Biotechnology, CARI, Port Blair	28. DNA and Basic component of DNA
20	Dr. Murugan , Scientist, Botanical Survey of India, Port Blair	29. Flora of Andaman Islands
21	Dr. K.P. Rajesh , Scientist, Botanical Survey of India, Port Blair	30. Flora of Andaman Islands
22	Mr. S. K. Sinha, Secretary, Andaman Nature Club and State Coordinator, NCSC, Andaman and Nicobar	31. Understanding Planet Earth.
23	Dr. V. Jayakumar , Scientist (Pathology), Division of Field Crops, CARI. Port Blair	32. Integrated Farming System
24	Dr. P. Pramod, Nature Education Officer, SACON, Coimbatore	33.
25	Mr. P. Rajan, Project Assistant, DNA Clubs Andaman, SACON, Coimbatore	34. Biodiversity of Andaman and Nicobar Islands.
26	Dr. Ravishanker, Scientist, Division of NRM, CARI, Port Blair	35. Natural Resource Management through integrated farming system
27	Dr. Mukul Bhatia, Medical officer, TCI Clinic, Port Blair	36. Medical Check up

Field visits conducted during VTP

The field visits were conducted to biodiversity rich areas such as wildlife sanctuaries, national parks and scientific museum in Port Blair, Scientific Institute, etc to expose them to the diverse terrestrial ecosystems and related bioresources. During these trip students were collected information regarding their project and learned some thing about nature through direct observation. The following sites were visited during the programme:

1. **Mount Harriet National Park** :- To study evergreen forest, Birds and Butterflies.

This National Park is spread over 46.62 sq.km. and is known for prestine tropical evergreen forests and for some of the endemic reptiles and amphibians and having rich diversity of Birds and Butterflies.

2. **Lime stone cave at Baratang Island** :- To study forest types and visit natural lime stone cave.
3. **Mud Volcano at Baratang Island**:- To visit active mud volcano.

Continuous flow of soil in Mud volcano near Baratang of Andaman Islands. Mud volcanoes are eruption of mud containing hydrocarbon fluids, gases.

4. **Chidiyatapu Biological Park** :- To study ex-situ conservation and captive breeding

A Biological Park is being developed at Chidiyatapu for housing and exhibiting animals with the objective of educating people, ex-situ conservation and captive breeding of rare and endemic fauna of these islands.

5. **Mini-Zoo Haddo at Port Blair** :- To Observe endemic Birds and reptiles of Andaman

The mini-zoo is located next to PCCF's Office at Haddo it exhibits unique animal species which are found in these islands.

6. **Botanical Survey of India Garden** :-

Institutional visits Institutional visits

7. ~~Chattham~~ Chattham Saw Mill:- Saw Mill

This saw mill is one of the largest saw mill in South East Asia. It is a popular tourist destination in Port Blair.

8. Forest Museum at Chatam Island:-

The forest museum is located at Haddo and exhibits various timbers species and other forest produce of ecological and commercial importance.

9. Anthropological Museum:-

The small Museum is run by the Anthropological Survey (ASI) of India shows a wide selection of Andamanese tribal weapons, tools, including an entire canoe from Little Andaman. There are also many photographs on display

10. Samudrika Naval Marine Museum:-

Samudrika Naval Marine Museum, managed by the Indian Navy, The museum is divided into 5 sections, which depict the history and geography of the islands, people, marine life and archeology.

11. Science Centre, Port, Blair:-

This science centre explains the science of oceans and to create waves of varying parameters and explore the features different science instruments and theoretical machines of science.

12. Central Agricultural Research institute:-

- To study the basic Biotechnology and working procedure of Biotechnological machines.
- To understand the basic horticulture.
- To use the Library regarding students projects.

13. Zoological Survey of India:- To study the collected specimens.

The ZSI Museum is maintained by the Zoological Survey of India and showcases diverse variety of sponges, corals, butterflies and centipedes, besides other animals

14. Cellular Jail, Port Blair:-

This monument symbolizes the difficulties faced by the Indians to attain freedom from their colonial rulers and is preserved as a shrine to India's freedom fighters

Project work

Each students have their own individual projects, extracted through nature walk, lab visits and field visits. During these field exposure students were collected as much primary data as possible. In the last week of the Training programme, they have been given specific time to do the data collection, compilation and report preparation. On the second last day (11th June, 2008) was the presentation of project reports by the students. Each student presented their works in front of the Course Director and other RRA Represents, these all projects were displayed on the occasion of valedictory session. Brief details of the reports is given below.

1. **Population and ecology of White Bellied Swiftlet. (by B. Vijayakumar):-** He has He has specially looked into the behavioural study of White Bellied Swiftlet in Port Blair region and also noted their population and compared this with other common bird species in Port Blair.
2. **Survey of Common Myna in Sippighat area, Port Blair. (Sandeep Baidya):-** He has studied individual aspects of bird Common Myna in Sippighat area, Port Blair. He has analysed the to find the population and behavioural pattern of Common Myna.
3. **Butterfly diversity of Sippighat Area, Port Blair.(Pooja Roy):-** She has identified some species of butterfly during the period and has collected some larvae of butterflies for the detailed analysis such as initial length, width, colour, etc,
4. **Common Birds of Sippighat. Port Balir. (by Pradeep. K. Roy):-** He has observed birds in the Agricultural lands and mangrove forests of Sippighat, Port Blair. Population estimation through line transects were done and identified 30 species of birds, and he has reported Kingfishers and sunbirds were the commonest bird in these area.
5. **Study on Population and Habitat of Red Whiskered Bulbul in South Andaman. (by L. Rakesh Rao):-** He has collected the all possible data of Red Whiskered Bulbul for individual study. During his study 133 individual Bulbul are carefully

observed and he has noted all disturbed forest are utilised by Red Whiskered Bulbul.

6. **Study of Earth Worm. (by Snehil Pallav):-** He has studied the various types of Earth Worm in the agricultural and disturbed forest soil and analysed the Earth worm. He has also prepared Earth worm Compost with use of Cow dung and soil to demonstration.
7. **Indigenous Crop Varieties of Andaman Islands. (by K Sundara Pandian):-** He has visited crop field in Andaman for direct observation of crop varieties and collected information from the farmers about procedure of planting. After that he has prepared list and description of crop type
8. **Structural Variation of Tree Barks In South Andaman Islands. (by Jharna Samaddar):-** She has studied the colour, texture and patterns in the tree bark, collected bark signature of ten species of trees using pencils and analysed how these characteristics are distributed.
9. **Jack Fruit Tree Utilization of Birds in Krishi Vigyan Kendra, Sippighat. (by Ashiq Ali):-** He has carefully observed the Jack Fruit tree with time interval for finding the Jack Fruit Tree Utilization by birds and also he has noted all possible information associated with tree such as feeding character, Activities, etc
10. **Study on Population and Habitat of Magpie robin in South Andaman.(by Shainy Issac):-** She has collected the all possible data of Magpie robin from the Sippighat area. During his study 94 individual Magpie robin are carefully observed.
11. **Study of Night Insect in Krishi Vigyan Kendra, Sippighat. (by V. selvam):-** He has studied about nocturnal insect in KVK Campus with used by Night trap method, the collected specimen put into formaline and identified with help of K.A.Subramanian from ZS, Pune.
12. **Diversity of Leaves in Sippighat area, Port Blair.(by Puja Rani Mistry):-** She has carefully observed 36 wild plants from KVK campus Sippighat and has studied the morphology of leaves of those plants. She has analysed the data to find out the pattern in the distribution of the characteristics in the set of samples she has studied.

13. **Diversity of Domesticated Animals in Andaman and Nicobar Islands.(by Sushanta Mistry):-** He has studied and prepare report of Domesticated Animals in Andaman. He has searched agricultural fields and disturbed forests in Port Blair region and otal 9 domesticated Animals were identified from the field.
14. **Aquatic Insects in Sippighat area, Port Blair.(by M. Bala subramani):-** He has visited the Three fresh water pōnds available near Krishi Vigyan Kendra campus and he has identified 32 aquatic insects(16 from pond-1, 10 from pond-2 and 6 from pond-3 with the help of Dr. K.A.Subramanian from ZSI, Pune.
15. **Population and ecology of House Sparrow in south Andaman Islands. (by Suman Sarkar):-** He has studied the various aspects of House Sparrow in south Andaman Islands. From this study he has realized most of the house sparrows could be seen in city and housing areas, only some are found in Garden areas but it is rare in evergreen forest areas.
16. **Bird Diversity of Tsunami Effected mangrove Forest in Sippighat, South Andaman. (by K. Murugan):-** He has identified 20 species of birds in Tsunami effected mangrove forest in Port Blair, he suggested 4 species of mangrove species are very common in these area and out of 20 birds species 4 species are living in the inside the canopy of mangrove forest.
17. **Bio Diversity of Biofence in south Andaman Islands. (by S. Kathirvel):-** He has explore the Biodiversity in the Biofence in Sippighat area of Port Blair. From this study, he has identified 6 species of plants, some insects and larva associated with Biofence.
18. **Diversity of Flower associated Insects in Sippighat area, Port Blair. (by Prosenjith Biswas):-** He has explored the common insects associated with flowers in the Krishi Vigyan Kendra campus. Conducted time restricted search and collected 49 number of voucher specimen and identified them upto the common orders. He has also noted flower character and relationship of insects.
19. **Diversityu of Flowers : A Case study. (by Sonam Runda) :-** She has explored the varieties of flowers in three area such as Mount Harriet National Park, BSI

Garden and Krishi Vigyan Kendra at Andaman. She could identified 30 species of flower, among these 8 trees, 11 shrubs, 3 creeper and 1 climber.

Valedictory Session:

The 20 day Vacation Training Programme (VTP) came to an end with valedictory session was presided over by the Dr. R. C. Srivastava, Director of Central Agricultural Research Institute, Port Blair. Shri. Khazan Singh IFS, Principal Chief Conservator of Forest (Wildlife), Andaman and Nicobar Islands, was the chief guest of the function, urged the participants to take initiatives to conserve the most valuable bioresources of our country especially of Islands. Dr. P. Pramod, Course Director of the VTP gave the welcome address and presented the report of the Programme. Mis. Sonam Runda, a participant from , Mayabunder the view on behalf of participants. Mr. Muruganadam, a student from the Port Blair received the award for the "Best project report" and Mr. balasubramani, a student from Mayabunder received th award for the overall performance in the training Programme. All the Participants were givenbenefitting prizes and certificates.

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- 4 pages feed back from from school
- List of DNA Club members in different School.

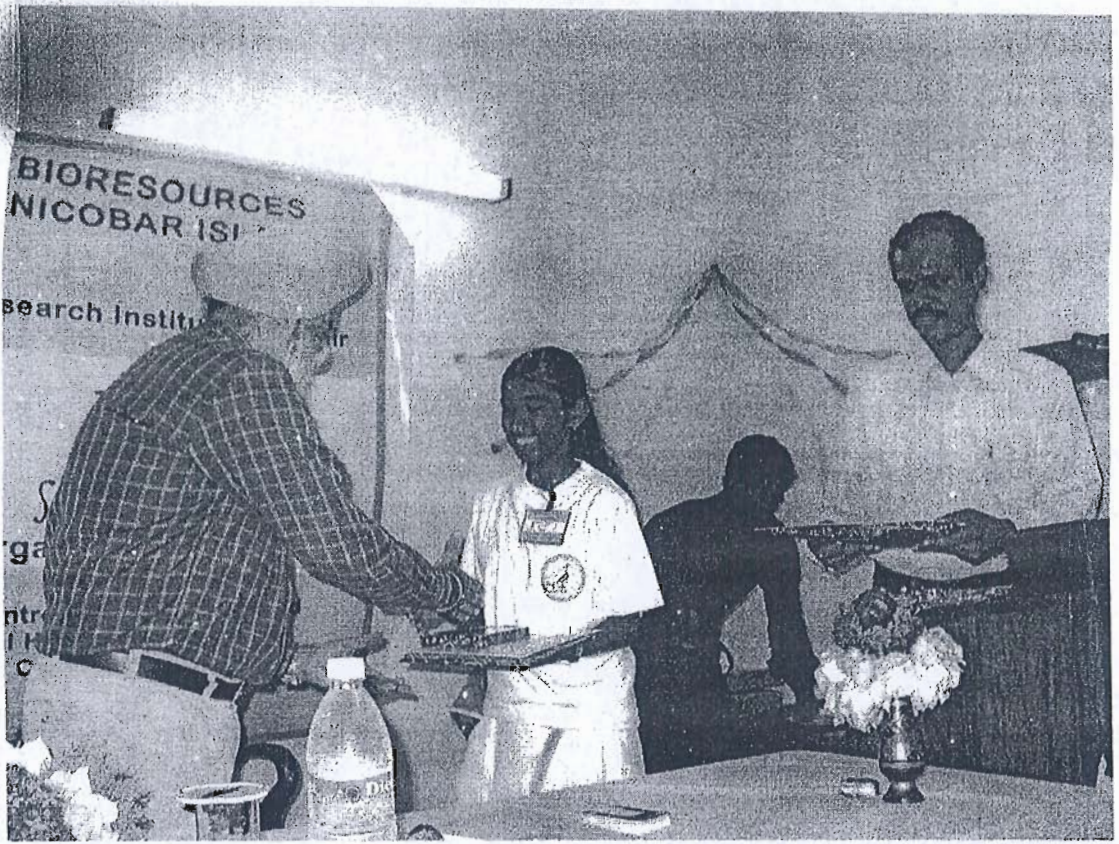




VTP Members visiting Mount Harriet National Park in South Andaman.

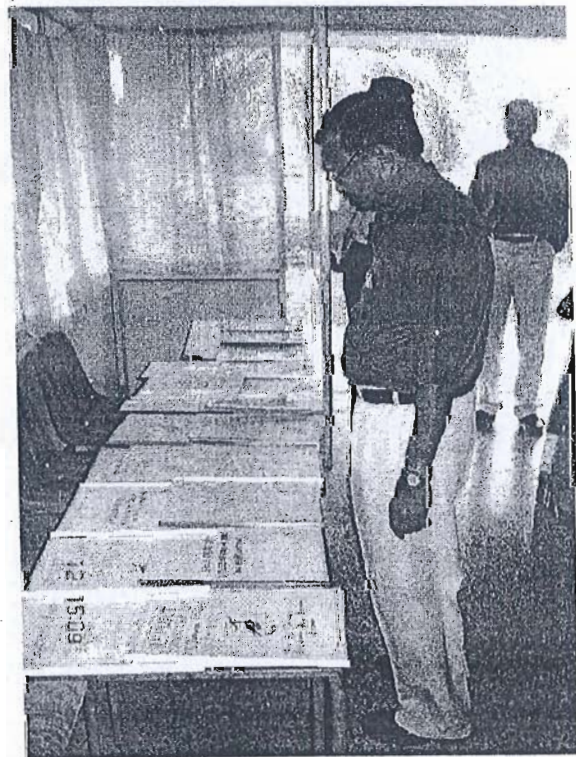


Forest Ranger demonstrating procedure of plant breeding to VTP Members in the presence of BSI scientist and Mr. CVC. Pandian (director of S&T) Andaman



Prize Distribution for the participants of VTP by . Khazan Singh IFS PCCF (Wldlife),
Andaman and Nicobar Islands

Dr, T.V.R.S. Sharma (Sr. Scientist and
Head of Field crops Division, CARI, Port
Blair) observing student's project Reports
in VTP Valedictory function.



FEEDBACK ON THE DNA CLUB ACTIVITY

1. Name of school and DNA Club Coordinator

Name of the school: Kendriya Vidyalaya, No. 1, Port Blair, A&N. Islands.
School Co-ordinator: Mr. M.T. RAJU, PGT(BIO)

2. How has the DNA Club activity being accepted by the School Children

School children have accepted the DNA Club activity with great enthusiasm and in right spirit as the name itself is a big boost for them to be the member of the Club. Not only the students, we also find that there is a great demand from the parents to make their wards as a member of the Club. All this is because of the way it moulds the children with great scientific temper and develops the critical thinking which is one of the 21st century learning skills.

3. What is the new knowledge gained by the Students

Students have gained the way of their thinking from traditional way to scientific logical and analytical thinking. Students have learnt about the biodiversity richness, its importance to mankind, its conservation and our responsibility. They also have gained the knowledge in the field of bird-watching, Mushroom culturing, blood testing, water testing for pH and salts, etc.

4. Has it had any impact on their daily learning/course curriculum

Certainly. As the most of the topics, projects that they have been working on are related to their course curriculum and the academic performance of the students has been improved so much due to their improved thinking ability.

5. What has been the most significant gain for the students which was not being routinely achieved without DNA Club activity.

01. Confidence level
02. Scientific temperament.
03. Critical thinking.
04. Analytical approach.
05. Keen observance.

6. Do the activities complement any of the ongoing activities/curriculum of different classes

Certainly. Most of the activities of the DNA Club have been complement to the project works and assignments given by the teachers and the Teachers are very happy to the work done by the DNA Club members.

7. Do you feel this a programme should continue. Are there any modifications/changes suggested

Certainly. This programme should be continued as it is the best practical approach for a student to work in a group (collaboration & cross cultural communication) and learn by doing it on his own. It also changes the way of thinking, the way of observation, the way of studying the nature and it may mould the child into a genius .

8. What other additional activities would you like to see included

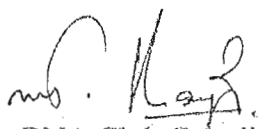
01. **Frequent visits and Awareness campaigns** by Scientists and subject experts in the project-related subject.
02. **Technical knowledge** in collecting the information from the sources.
03. **Online information** and online sources pertaining to the projects on which the students have been working.


9. Have there been any significant constraints in implementing the programme.

Nil

10. Any other suggestion

DNA Club activities of the students must be continued and supported to produce Future citizens of India with great scientific temper which is desired by the Former President and Missile man of India Mr. APJ. Abdul Kalam.


Signed by the DNA Club Coordinator


02/02/09
Counter Signed by the School Principal

केन्द्रीय विद्यालय नं १
Jandriya Vidyalaya No. 1
पोर्ट ब्लेयर - ७५० १०१

FEEDBACK ON THE DNA CLUB ACTIVITY

1. Name of school and DNA Club Coordinator

GOVT. MODEL SENIOR SECONDARY SCHOOL, MAYABUNDER
Mrs. BEENA DANIEL, PGT(Bio), GMSSS, MAYABUNDER

2. How has the DNA Club activity being accepted by the School Children

By looking at the opportunities made use of by virtue of DNA Club members other school-children also aspire to grab the opportunities which reveals that the DNA Club activities have been overwhelmingly accepted by the School Children.

3. What is the new knowledge gained by the Students

Of late, the DNA club members were subjected to a two day field trip by trekking for eight hours to Saddle Peak National Park at Diglipur, North Andaman climbing up to height of 737 metres from sea level. By this trip children were acquainted with the rules and regulations that are to be followed in a National Park. The children saw stunted growth plants which were endemic to these zones. Scientists from Botanical Survey of India explained the importance of the nature and their methods of study. Each of the participants prepared their own travelogue and presented each a day before the prayer assembly of the school. On the whole club members gained some knowledge about occurrence of Biodiversity in nature and its importance. They also appreciate the need for its conservation.

4. Has it had any impact on their daily learning/course curriculum

Not much. But I personally feel that when children become more and more involved in their projects and other activities, they will get more insight into their daily study materials.

5. What has been the most significant gain for the students which was not being routinely achieved without DNA Club activity.

Children have started observing and watching nature, which was not there before the beginning of club activities.

6. Do the activities complement any of the ongoing activities/curriculum of different classes.

Yes, some activities like observation of cells, stomata etc under microscope.

7. Do you feel this programme should continue. Are there any modifications/changes suggested

Of course, programmes of this kind help students directly interact with the nature and help inculcate a sense of appreciation about nature and help comprehend need for its conservation. The guidelines being followed are apt.

8. What other additional activities would you like to see included

Andaman & Nicobar Islands is a remote place and thus there must be a provision to take the club members to other states to study about the diversity of fauna and to visit advance labs and to interact with different eminent scientists.

9. Have there been any significant constraints in implementing the programme

As has been mentioned above Andaman & Nicobar Islands is a remote place without resource persons, even for guest lectures.

10. Any other suggestion

It would be better if a calendar of suggested activities with a provision to modify according to local requirements is provided to each school owing to which a uniformity among the different clubs in Andaman & Nicobar Islands.

Banjan

Signed by the DNA Club Coordinator

Wiley
3/2/09

Counter Signed by the School Principal

GOVT. HIGH SCHOOL, ANDAMAN
GOVT. HIGH SCHOOL, ANDAMAN
HIGHER SECONDARY SCHOOL

GOVT. HIGH SCHOOL, ANDAMAN Code- 744 204

Govt. Model. Sr. Sec. School, Hut Bay, Little Andaman

Coordinating Teachers

: Mrs. Pooja Lal & Mrs. Shainy

GROUP-I

Sl.No	Name of the Student	Class
1	Aparna Biswas	VI-B
2	Pooja Brahma	-do-
3	Priya	-do-
4	Nethash Sankar	-do-
5	Pauan Naidu	-do-
6	Prabhu	-do-
7	Beauty Biswas	VIII-A
8	Damiya Toppo	-do-
9	Gayathri Kumari	-do-
10	Arun Minj	-do-
11	Lachu Bhagat	-do-
12	Pramod Kumar Sarang	-do-
13	Aney Alex	VIII-B
14	Asha Minj	-do-
15	Fulmani Toppo	-do-
16	Kalyani, G.	-do-
17	Pool Kumari	-do-
18	Praba Wathi, A.	-do-
19	Punom Dung Dung	-do-
20	Rasmi	-do-
21	Karthick Ray	-do-
22	Murali Krishna	-do-
23	Prakash, R.	-do-
24	Prem Sunder	-do-
25	Sathish Kumar, T.	-do-
26	Amritha	VIII-C
27	Madhu	-do-
28	Pooja Malik	-do-
29	Krishna	-do-
30	Rohan	-do-

GROUP-II

Sl.No	Name of the Student	Class
1	Beenitha	IX-A
2	Hanti, P.	-do-
3	Praveena, E.	-do-
4	Sunitha, K.	-do-
5	Trishna Biswas	-do-
6	Yamuna, T.	-do-
7	Chandarsakar	-do-
8	Dandha Rao	-do-
9	Dinesh	-do-
10	Somit	-do-
11	Sonit	-do-
12	Fulmani Terkey	IX-B
13	Meena Kumari	-do-
14	Nagiya	-do-
15	Prisela	-do-
16	Frasash	-do-
17	Jameer, M.	-do-
18	Krishna Terky	-do-
19	Aysha Raj, K.	XI (Sci)
20	Kiran baa	-do-
21	Preethi, S.	-do-
22	SivaSankari	-do-
23	Ajay	-do-
24	Jacky	-do-
25	Jijo John	-do-
26	Karthick	-do-
27	Krishna	-do-
28	Rudra Murthy	-do-
29	Vincent	-do-
30	Yunash	-do-

Kendriya Vidyalaya No.1, Port Blair, South Andaman

Coordinating Teachers
GROUP-I

: Mr.Raju, PGT Biology & Mr. Uma Shanker Yadav SSCT

Sl.No	Name of the Student	Class
1	Sangeeta	VIII-A
2	Saravana	VIII-A
3	Bharathi	VIII-A
4	Nitish	VIII-A
5	Priyanka	VIII-A
6	Soumick	VIII-A
7	Prabal	VIII-A
8	Rishabh	VIII-A
9	Unnikrishnan	VIII-A
10	Varsha	VIII-C
11	Keerthana	VIII-C
12	Surya Teja	VII-A
13	Shrihari	VII-A
14	Nethu	VII-A
15	Nadeem	VII-A
16	Dipti	VII-A
17	Subham Singh	VII-A
18	Ritam Malik	VII-A
19	Subramani	VII-A
20	Anshika	VII-A
21	M. K Hudha	VII-C
22	Meenakshi	VII-C
23	Sananda Das	VII-C
24	Gayathri	VI-A
25	Subham	VI-A
26	Merlin	VI-A
27	Sneha	VI-A
28	Vijayalaxmi	VI-A

GROUP-II

1	R. Anila	XI
2	Anita Raj	XI
3	Anjali	XI
4	Ayesha	XI
5	Bejoyashree	XI
6	Chandrakala	XI
7	Divya Sharma	XI
8	Ginsy	XI
9	Karishma	XI
10	Kripa Singh	XI
11	Naga Jyothi	XI
12	Nargis	XI

13	Neha Brohma	XI
14	Naha Halder	XI
15	Nita Das	XI
16	Rakhi	XI
17	Sangamita	XI
18	Sanjana	XI
19	Udhaya	XI
20	Biswajit	XI
21	Manab	XI
22	Sandeep	XI
23	N. Sreejith	XI
24	Sreejit. S. S	XI
25	Vignesh	XI
26	B.Mamata	XI
27	J. Mamata	XI
28	J. manisha	XI
29	Nayana Raj	XI
30	Pramila	XI
31	Tuheena	XI
32	Shabnam	XI
33	Priyanka	XI
34	Urvashi	XI
35	S. Ramkamo	XI
36	Shalini	XI
37	Mamta Praja Pati	XI
38	Adil Baksh	XI
39	Ajay sharma	XI
40	Rajashri	XI
41	M. jagan	XI
42	Shusil Kumar	XI
43	Nabhneel	IX
44	Santhosh	IX
45	Deepak	IX
46	Susmoy Das	IX
47	Tannu	IX
48	Tamanash	IX
49	Maneesha	IX
50	Sandhya	IX
51	Vivek	IX
52	Pooja Biswas	IX
53	Sarabjit	IX
54	Sahib Kaur	IX

Govt. Sr. Sec . School, Sabari Junction, Middle Andaman

Coordinating Teachers

: Dr. S. K. Mondal

GROUP-I

Sl.No	Name of the Student	Class
1	Pramodh Das	VIII A
2	Roni.K. Joshi	VIII A
3	D. Navin	VIII A
4	Shiji Kumari	VIII A
5	K. Vishalini	VIII A
6	Vivek. Minj	VIII B
7	Supto Biswas	VIII B
8	Sundeep Kumar	VIII B
9	Narender Kaur	VIII B
10	Swetha Bandopadhyay	VIII B
11	Sanjay. K. Kutty	VII A
12	Ranjini Singh	VII A
13	Afsana Banu	VII A
14	Nitin. A	VII A
15	Nisha Halder	VII B
16	S. Shiva	IX A
17	Rahul Roy	IX A
18	Mrinal Sinha	IX A
19	V. Kasturi	IX B
20	Prema	IX B
21	Anupama Paul	IX B
22	Manohar Mazumder	IX B
23	M. Mithun	IX B
24	Radhika	IX B
25	Abhishek Mridha	VI A

GROUP-II

1	Anshul Kumar	
2	Anand Rao	
3	Anupam Dutta	
4	Arun Kumar Sai	
5	Vishal oMhan	
6	Daya Shanker Yadav	
7	Abhilash	
8	K. Kishor Kumar	
9	Johnson	
10	K. Prasanth	

11	Sandeep Uraon	
12	Sanjay Alok Minj	
13	Saradh Lakra Lkra	
14	Manoj Vidhaya	
15	Tushaar Mondal	
16	T.J . Vivek	
17	Prasath lal	
18	Surid Roy	
19	T. Kartick	
20	Shine Thomas	
21	S. Rajesh	
22	Suraj Mondal	
23	Sohail Akbar	
24	Amudhakani	
25	Anjumary Sajan	
26	Arpana Das	
27	Arpita Samaddar	
28	Bincy Koshy	
29	D.S. Nisha	
30	Chamanpreeth kaur	
31	Farhad Begum	
32	D. Bharthi	
33	Dhanalakshmi	
34	P. Meethu	
35	Shalu Guptha	
36	Neelam Guria	
37	Ratna Dutta	
38	Jayapriya	
39	Swarnalatha	
40	Saptadweepa Biswas	
41	Preethi Prasad	
42	Vidya .R	
43	Shahnaz	
44	Kaveri Das	
45	Somiya	
46	Suhasini	
47	Shiji Mathew	
48	Seema Mistry	
49	Sandita	
50	Tulasi Bhai	

Govt. Model. Sr. Sec. School, Mayabunder, Middle Andaman

Coordinating Teachers

: Mrs. Beena Daniel,
Mr. Om Prakash

GROUP-I

Sl.No	Name of the Student	Class
1	Avinash Xalxo	VII A
2	Peeka Mondal	VII A
3	Rajni Devi	VII A
4	Deepayan Mali	VII B
5	Pooja	VII B
6	Akshaj. E. P	VII B
7	Vivek Lakra	VII C
8	K. Vidya	VII C
9	Nawbella Rina	VII C
10	Simhachaiam	VII D
11	Raju	VII D
12	Roja	VII D
13	A. Laxmi Devi	VII D
14	Debashish ray	VIII A
15	Beena Kumari	VIII A
16	Shama Farin	VIII A
17	Rakesh Kumar	VIII B
18	Adithya Singh	VIII B
19	Suparna Mazumder	VIII B
20	Om Sai Murugan	VIII C
21	Ravi Chandran	VIII C
22	Powsha	VIII C
23	Pushpa Kumari	VIII D
24	Pooja	VIII D
25	Y. subba Laxmi	VIII D

GROUP-II

Sl.No	Name of the Student	Class
1	Edmund Paul	IX A
2	Jyobroto Ray	IX A
3	Poornima Sardar	IX A
4	M. Siva	IX B
5	K. Jayaraj	IX B
6	J. Divya	IX B
7	Pooja Biswas	IX B
8	Darius Francis	IX C
9	Renu	IX C
10	Roopa. K	IX C
11	V. Maneesh	IX C
12	M. Divya	IX C
13	T. Mohan Babu	IX D
14	M. Santhoshi Kumari	IX D
15	D. Karthik Kumar	IX E
16	S. Swathi	IX E
17	Papa Rao	XI C
18	S. Kathirvel	XI C
19	K. Kaleswaramurugan	XI C
20	S. Sivakumar	XI C
21	M. Balasubramani	XI C
22	B. Bijayakumar	XI C
23	Sonam Runda	XI C
24	Mercy Philip	XI C
25	Sherin Punnoose	XI C
26	Kushnumum Banu	XI C

Govt. Sr. Sec . School, Diglipur, North Andaman

Coordinating Teachers

: Mrs. Sanjeetha Debrath & Mr. Natarajan

GROUP-I

Sl.No	Name of the Student	Class
1	Kavitha. R	VI
2	Paleam Priya	VI
3	Maresh. D	VI
4	Sasikumar	VI
5	Vasanth	VI
6	Chithra Selvi	VII
7	Priya. G	VII
8	Kathikeyan. M	VII
9	Kalidaran. M	VII
10	Murugan. O	VII
11	Nageswareen	VII
12	Rajesh. R	VII
13	Saravana Kumar. M	VII
14	Siva. S	VII
15	Sivan	VII
16	Vadivel Murugan	VIII
17	Saranya. B	VIII
18	Virlaxmi	VIII
19	Prithika. P	VIII
20	Sasikala. T	VIII
21	Arul Jenifer	VIII
22	Usha. M	VIII
23	Amutha. M	VIII
24	Teeban Kumar	VIII
25	Muthukumar.S	VIII
26	Sevaga Murthi	VIII
27	Rajesh. R	VIII

GROUP-II

Sl.No	Name of the Student	Class
1	Sanju Kumar Das	XI
2	Rajat Kumar Mondal	XI
3	Surhid Ray	XI
4	G. Vinod Kumar	XI
5	Devashish Bawali	XI
6	k. Murugan	XI
7	K. Akhileswaran	XI
8	Anup Mondal	XI
9	Prem Prakash Beck	XI
10	Bhuwan Bhatt	XI
11	Akash Nair	XI
12	V. R. Rohit	XI
13	Sujith Kumar	XI
14	Sheik Zahir Ali	XI
15	Anitho Biswas	XI
16	Pushpitha Mistry	XI
17	K. Sivaranjini	XI
18	Sandhya Kumari	XI
19	Nisha Biswas	XII
20	Saurav Chakraborty	XII
21	Shiva Kumar	XII
22	Shibajee Sutar	XII
23	Prosenjit Samaddar	XII
24	Nipurna Barman	XII
25	Lekha Golden	XII
26	Mary Santhy	XII
27	Trishna Samadder	XII
28	Santu Bepari	XII
29	Krishna	XII
30	Ganesh	XII

