

Report of Workshop on Nature Camp

21st to 24th October, 2008

Catalysed and Supported by

**Rashtriya Vigyan Evam Prodyogiki Sanchar Parishad
Department of Science & Technology
Government of India , New Delhi**



Organised by



SEBA

Council for Socio Economic Benevolent Action

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Report of the workshop on Nature Camp

The Council for Socio-Economic Benevolent Action (SEBA) was organized a four days workshop on “Nature Camp” at Conference hall of Diploma Engineers Association Building, Baripada, during 21st to 24th October 2008. The above programme was catalysed and supported by Rashtriya Vigyan evam Pryodyogiki Sanchar Parishad (RVSP), Department of Science & Technology, Govt of India.

The workshop was inaugurated by Dr. Natabar Panigrahi, Registrar, North Orissa University, on 21st October morning. Deliberating the basic objective of the workshop, Dr. Panigrahi enlighten the participants that



Inauguration of the Workshop by Dr Natabar Panigrahi, Registrar, North Orissa University, Baripada, on 21-10-2008.

popularization of science and technology through organizing workshop, trainings at the grass root level for students, teachers and social activists as well as common people is one of the major activities of RVSP. He has shown his concern for protection of environment and biodiversity, global warming and consequences of climate change.

Dr. Satish Chandra Paul, (Former Head, Aromatic & Medicinal Plants Division, Regional Research Laboratory, Bhubaneswar, given a clear picture about the aim and objective of the Nature camp workshop, beside focusing on the Importance of S & T communications and role of RVSP

, and Developing effective Science Communication Skills. He elaborate the widest sense of nature includes everything. Things around us as well as those far away from us. We our self too form a part of it. But in a more commonly used sense it refer to things not made by man, this again would include almost every thing from star and rocks to plants and animals and also all processes from wind and weather to living and dying. In a still simpler way the term nature brings to our mind things that live and grow, so that living plants and animals. we also include in this the view of nature the things and the surroundings that help in the process of living and growing. Thus nature would mean plants and animals , soil , air and water, forest, streams and even the desert.



while man has no roll in creating nature, he shapes it in many different ways. He does so in course of his dependence on it for almost everything. Man looks to nature for food , shelter and almost all other basic needs . more importantly nature provides a learning environment for the human beings. It also provides a setting of all his creative instincts. For children free from all deeper thoughts , nature simply becomes a source of fun. It provides them with a familiar surroundings which they can relate to easily. They build a variety of relationships with nature's components and become an integral part of it in the process.

During afternoon session Dr S C Paul draw the attention of the participants regarding Biodiversity, eco system etc, further he spoke the most remarkable thing about nature is togetherness. Things whether

living or non living , do not convey a sense of naturalness in isolation. A beautiful tree is just that . but a group of trees, beautiful and plain, large and small, would form anything from a garden to a forest. There would be a noticeable interaction, both cooperation and competition among the plants there. Any wooded area will automatically attract other living things. These would range from microbes and tiny creatures to large animals, and even man. All of them together would become quite a remarkable natural whole. In other word nature is a reflection of the process of living together, and the study of such natural togetherness is called the science of ecology.



An ecosystem may be very large or quite small. It can be a forest, an ocean or a small compost pit or an aquarium. To be a true ecosystem the unit should be able to support all life within it in a reasonably self-sustained manner, also all materials in a ecosystem must be used in a cyclic way. Thus what one gives off into the system should be converted back to oxygen we need. The biosphere the only part of the earth which supports all life, is only an insignificant fraction of our planets bulk. It extends only a few hundred meters below and a few kilometer above sea level. All life on earth is limited to this thin shell around the globe consisting of the upper parts of land surfaces and of the oceans and the lower atmosphere. While the availability of sun's radiation decide the lowest depths where life can be found, the upper height is dictated by the availability of the other life supporting factors like oxygen.

On the second day morning the participants visited one biodiversity site at the base of Similipal forest beside Kaliakhal nullah, the site is an

ideal biodiversity site with a large variety of animal and plant species. Thus the participants got scope for watching aquatic animal, animals on and under the ground, study of insects, bird watching etc during Nature walk, beside observing a large variety of plant world.

During Nature walk more attention was given to the variety of vegetation, animals, land features, both natural and man made, apparent changes that had taken place recently or over a longer period of time etc.

Samples of soil and rocks, dead plants, animals, twigs, rotting leaves, bones, feathers and other part of animal or plant body of notice has been collected by the participant under the guidance of resource persons. During collection necessary care for personal safety has been taken up, like avoiding stings and bites or contact with poisonous plants etc, beside keeping distance from snake and other dangerous animals.



While watching a big banyan tree the participants observed many animals nesting there or just looking for food on the tree, this includes a variety of birds, mammals like monkeys and squirrels, snake etc, there were patches of lichens, moss and other type of plants like orchids.

On third day morning Dr Sipra Giri, Lecturer in Botany, talk in detail regarding seed germination, she sows practically root and shoot emerging from a sprouting seed, seed can remain for long periods of time and start to grow when the right conditions for germination are found. The most

important condition is the availability of water and warmth. When this happens the seeds swell and soften by absorbing water finally the seed covering breaks and the plant parts –first the root (radicle) and the shoot (plumule) – emerge. The whole process, known as sprouting, is easy to carry out and observed .

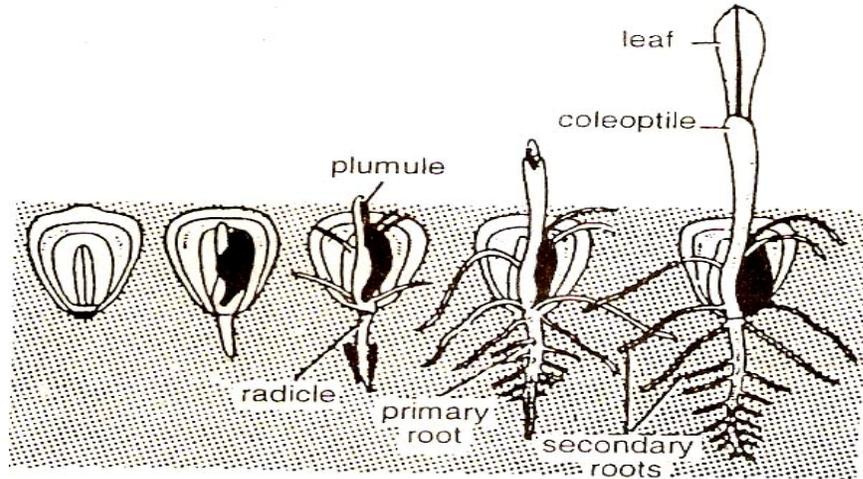


Fig. 8. Hypogeal germination : In maize.

Dr Sipra Giri, further explain about green house effect, eco pond, garden without soil, growing plant without seeds, special form of stem and roots, plant from leaves with practical orientation.

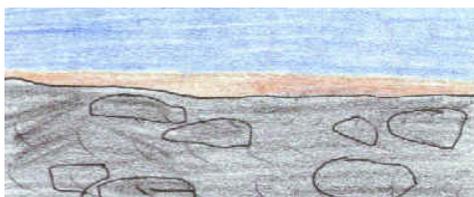


Samples brought back from the walk has been spread out on a piece of thick blotting paper, and sorted in to different types. Broad categorization like living- non living , plant- animal, natural – manmade etc. further division within the broad groups are taken up.

Continued ... p6

During a very interactive class Dr Siba Narayan Mishra, Head of the Department and Lecturer in Zoology, discuss & explain about the habits of animals, there food chain, vertebrates and invertebrates, mammals, birds around the home and yard etc. During bird watching he explain about there behavior, regarding migrating birds etc. the life forms that we cannot see, that is micro organisms.

Stages in the Formation of Soil



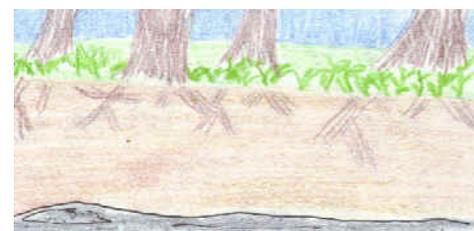
stage 1



stage 2



stage 3



stage 4

Dr S . C. Paul explain about the living soil, soil at different depth, collection of soil sample, soil composition and there classification, stages of soil formation, mineral component of soil, soil texture, soil structure and porosity etc. The most important role of soil is in relation to its ability to support plant growth. This property of soils – soil fertility – is controlled by there content of organic matter. The soluble mineral, salts present in the soil also contribute to some extent to a soil's fertility.

The organic components of soil determine its interactions with air and water. By altering the structure of a soil the organic matter helps in making it suitable for different types of plants and crops. Organic matters in the soil also helps directly by providing valuable nutrients required for plant growth. In this way after their death the living organisms make their contribution to the soil's ability for supporting new life. It is in this link role that soil proves to be one of the most important factors for the living world.

SEBA also arranged one Book Exhibition for the benefits of the participants on the last day, beside organizing some quiz competition among the participating students on the topic. Participants were gone through several titles of popular science books related with Nature, climate change, bio diversity etc both in English and Oriya through that exhibition. Free distribution of NCSTC Books and periodical are also conducted as per the choice of the participants.



The valedictory function was attended by Shri Rabindra Padhiari, Senior Advocate and Environment activist. Shri Padhiari had an interactive session with the participants and expressed his happiness with the product of the training programme. He has assured that he will support similar activities for the noble cause of development and awareness. Then certificate and prize distributed to the participants.

Proposed Follow up action to be taken by SEBA :

1. SEBA to see and guide Science communication skills among the participants.
2. SEBA to conduct more such Nature related workshop through out the state of Orissa , to create awareness .

ANALYSIS OF THE FEED BACK.

Three feed back form has been developed in consultation with RVSP. Which was filled by participants at the beginning of the workshop, i.e. on 22nd October 2008, immediately after completion of the workshop, i.e. on 25th October 2008, and after three months of completion of the workshop, so that in between last week of January and 1st week of February 2009.

Pre workshop feed back :

Here all the participants mentioned about there knowledge on Nature and what do they mean by Nature. Name of biospheres and sanctuaries . Name of animal and birds going to be extinct. Majority of participants mentioned the name of Eagle, some varieties of snakes, Tiger, Lion, Leopard, Hyena etc going to be extinct, where as some of them also mentioned about Elephant and Crow etc. They have also mentioned the name of plant species going to be extinct, their expectation from the workshop.

Feed back immediately after completion of the workshop :

Here participants have given there comment on the program content, Sequence of lectures, Practical orientation, Reading material, board and lodging, opinion on the duration of the programme etc. where a majority number of participants expressed their satisfaction over the program, where as some of them rated the program content etc as excellent. Afew number of participants suggested for more field visits and increased duration of the workshop.

Feed back after three months of completion of the workshop :

Post workshop feed back has been conducted after completion of three months of the workshop, so that during 26th January to 10th February 2009. It took a little more time in collection of the feedback form, which results in late submission of the completion report. Here the participants mention that the workshop became useful to them in their study and work place, they have also expressed their interest to attend more such workshop in future.

Programme Schedule for the programme ‘Nature camp for School Students & Teachers’, held during 21st to 24th October 2008.

TIME	ACTIVITY
First Day	21-10-2008
09.00 – 10.00	REGISTRATION
10.00 – 11.30	INAUGURAL FUNCTION
11.30 – 12.00	TEA
12.00 – 13.30	Introduction of participants and formation of groups; topics identification. Importance of S & T communications and role of RVSP, Developing effective Science communication skills.
13.30 – 14.00	LUNCH BREAK
14.00 – 15.00	Lecture and discussion on the concept of biodiversity.
15.00 – 16.00	Setting up experiments.
16.00 – 16.30	TEA
16.30 – 17.30	Interactive session and presentation of audio-video slides.
Second Day	22-10-2008
10.00 – 11.00	Introductory discussion on Plant World, Visit to Bio diversity site.
11.00 – 11.30	TEA
11.30 – 13.30	Nature walk, sampling and sorting.
13.30 – 14.00	LUNCH BREAK
14.00 – 15.30	Preservation and presentation of collected specimens.
15.30 – 16.00	TEA
16.00 – 17.30	Tree mapping observation.
Third Day	23-10-2008
10.00 – 11.00	Fun with plants, World of Insects and small animals.
11.00 – 11.30	TEA
11.30 – 13.30	Bird watching, collection of insects, preparation of vermary, foanic.
13.30 – 14.00	LUNCH BREAK
14.00 – 15.00	Discussion on biodiversity with visuals and illustrations / cartoons / photographs, etc.
15.00 – 15.30	TEA
15.30 – 17.30	Interactive session, quiz and discussion.
Fourth Day	24-10-2008
10.00 – 11.00	Lecture and discussion on micro-organisms and their significances
11.00 – 11.30	TEA
11.30 – 12.30	Lecture and discussion on exploring soil and related student activities.
12.30 – 13.30	Analysis, observation and reporting
13.30 – 14.00	LUNCH BREAK
14.00 – 15.00	Bee watching, studies on water bodies
15.00 – 15.30	OPEN HOUSE DISCUSSION
15.30 – 16.00	Feed backs and future scope of action / follow up
16.00 – 17.30	VALEDICTORY FUNCTION

Participants of the workshop on ‘Nature camp for School Students & Teachers’, 21st to 24th October 2008 , at Baripada.

Sl no	Name & Designation of Participant	Male / Female	Address of Participant
1	Sri Kamal Lochan Sahu Assistant Teacher	Male	Sripadganj High School Baripada
2	Sri Jagannath Sahu Assistant Teacher	Male	L.H.G.H Palbani Baripada
3	Ms Ranjana Tripathy Assistant Teacher	Female	Sri Satya Sai Vidya Vihar Baripada
4	Sri Pranakrushna Mazumdar Assistant Teacher	Male	Bhanjpur New Govt. High School, Mayurbhanj.
5	Sri Rajiv Lochan Jena Science Teacher	Male	M.K.C. High School Baripada
6	Ms Raj laxmi Jyotishi Assistant Teacher (Science)	Female	Rakhal Gope High School Baripada
7	Ms Shibani Shankar Mohanta Contract Teacher	Female	M.P.K Girls High Schooj Baripada
8	Sri Ratikanta Sahu Class-IX	Male	Sarat Chandra Vidyapitha Baripada
9	Sri Yagnyadutta Mistri Class-IX	Male	Sarat Chandra Vidyapitha Baripada
10	Sri Deba Sunder Mohanty Class-IX	Male	Sripadganj High School Baripada
11	Sri Rabindra Mohanta Class-VIII	Male	Sripadganj High School Baripada
12	Sri Samir Kumar Mohapatra Class-IX	Male	Rakhal Gope High School Baripada
13	Sri Mohammad Mustafa Class-IX	Male	Rakhal Gope High School Baripada
14	Kumari Jajnyaseni Rout Class-IX	Female	Lady Hamilton Girls HighSchool, Baripada
15	Kumari Lipsa Panda Class-IX	Female	Lady Hamilton Girls High School, Baripada

16	Kumari Suryakanta Jew Class-IX	Female	Sri Satya Sai Vidya Vihar Baripada
17	Sri Sandeep Swain Class-X	Male	Sri Satya Sai Vidya Vihar Baripada
18	Sri Arabinda Dash Class-X	Male	Sri Satya Sai Vidya Vihar Baripada
19	Sri Surendra Nath Tudu Class-IX	Male	Bhanjpur New Govt. High School Mayurbhanj.
20	Sri Subhranshu Mishra Class-IX	Male	Bhanjpur New Govt. High School, Mayurbhanj.
21	Kamal Lochan Mohapatra Class-VIII	Male	M.K.C.High School Baripada
22	Sri Himansu Sekher Panda Class-VIII	Male	M.K.C.High School Baripada
23	Kumari Alibha Panda Class-VIII	Female	M,P.K. Girls High School Baripada
24	Kumari Pratiksha Rana Class-IX	Female	M.P.K. Girls High School Baripada
2	Sri Pratibad Padhiari Class-VIII	Male	M.K.C. High School Baripada
26	Sri Baikuntha Das, Head Master	Male	Purunapani Panchayat Tileswar High school, At Purunapani, Po-Nobedhi, Via- Kuliana, Dist- Mayurbhanj.
27	Kumari Anita Hembram Class-IX	Female	P P Tileswar High school, At Purunapani, Po-Nobedhi, Via- Kuliana, Dist- Mayurbhanj.
28	Sri Raisingh Majhi Class-IX	Male	P P Tileswar High school, At Purunapani, Po-Nobedhi, Via- Kuliana, Dist- Mayurbhanj.
29	Sri Santosh Kumar Khanda Assistant Teacher	Male	Panchayat High School , Salgaon, Mayurbhanj-757017

30	Sri Sudhir Kumar Marandi Class-IX	Male	Panchayat High School , Salgaon, Mayurbhanj-757017
31	Kumari Madhusmita Behera Class-IX	Female	Panchayat High School , Salgaon, Mayurbhanj-757017
32	Ms Subasini Mishra, Head Mistress,	Female	Sri Ramji Highschool, Sureidihi, Ragdha, Mayurbhanj.
33	Sri Alok Kumar Basa Class-IX	Male	Sri Ramji Highschool, Sureidihi, Ragdha, Mayurbhanj.
34	Kalpana Sahoo Class-IX	Female	Sri Ramji Highschool, Sureidihi, Ragdha, Mayurbhanj.
35	Sri Pravat Mihir Jena Class - X	Male	Betnoti Highschool, At/ Po- Betnoti, Dist- Mayurbhanj.

RESOURCE PERSONS

Sl no	Name, Designation and Address of Resource Person
1	Dr. Satish Chandra Paul, Former Head, Aromatic & Medicinal Plants Division, Regional Research Laboratory, Bhubaneswar, At- S-59, Maitrivihar, Phase-1, Po- Chandrasekharapur, Bhubaneswar – 751 023
2	Dr Nabin Kumar Dhal Scientist, Department of Natural Products, IMMT, Institute of Minerals & Materials Technology, Bhubaneswar – 751 013
3	Dr Sipra Giri, Lecturer in Botany, PS College, Mahabilla, Dharampur, Po- Suliapada.
4	Dr Siba Narayan Mishra, H OD & Lecturer in Zoology, Srima Womens College, Baripada.

NEWS CLIPPINGS OF NATURE CAMP WORKSHOP

Media Coverage :

- | | |
|---------------------------------|------------|
| 1. AAJIKALI | 23.10.2008 |
| 2. JANABANI | 24.10.2008 |
| 3. AAJIKALI | 25.10.2008 |
| 4. Samay | 26.10.2008 |
| 5. The Dharitri | 26.10.2008 |
| 6. AAJIKALI | 26.10.2008 |
| 7. JANABANI | 27.10.2008 |
| 8. KHABARA | 28.10.2008 |
| 9. All India Radio,
Baripada | 24.10.2008 |
| 10. Sky vision TV | 26.10.2008 |

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PHOTOGRAPHS



Workshop on Nature camp at Baripada, , organized by SEBA, inaugurated by Dr Natabar Panigrahi, Registrar , North Orissa University, Baripada, on 21-10-2008.



Observation of Nature during Nature camp organized by SEBA at Baripada . In picture L to R Dr N K Dhal, Scientist, Department of Natural Products, IMMT, Institute of Minerals & Materials Technology, Bhubaneswar – 751 013. Dr. Satish Chandra Paul, Former Head, Aromatic & Medicinal Plants Division, Regional Research Laboratory, Bhubaneswar



Observation of Nature during Nature camp organized by SEBA at Baripada .
In picture Dr N K Dhal, Scientist, Department of Natural Products, IMMT,
Institute of Minerals & Materials Technology, Bhubaneswar, explaining the
Participants.



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In picture Dr N K Dhal, Scientist, Department of Natural Products, IMMT,
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Participants.



Participants preserving the Samples collected during Nature walk, in Nature camp workshop organized by SEBA at Baripada .



Participants preserving the Samples collected during Nature walk, in Nature camp workshop organized by SEBA at Baripada .



Dr. Satish Chandra Paul, Former Head, Aromatic & Medicinal Plants Division, Regional Research Laboratory, Bhubaneswar, explaining the participants the Importance of S & T communications and role of RVPSP, beside Developing effective Science Communication Skills.



Participants High school students and Teachers of the Nature camp Workshop organized by SEBA at Baripada.



Observation of Nature during Nature camp organized by SEBA at Baripada .



Dr. Satish Chandra Paul, (Former Head, Aromatic & Medicinal Plants Division, Regional Research Laboratory, Bhubaneswar) interacting with the participants during the workshop.



Participants & guests enjoying Exhibition of Books on Science awareness organized during the Nature camp workshop.



Exhibition of Books on Science awareness was organized on 24-10-08, during the Nature camp workshop at Baripada.



Participants expressing their view, during interactive session of Nature camp workshop, organized by SEBA at Baripada, on 24-10-2008.



During valedictory ceremony of Nature camp workshop, organized by SEBA



Distribution of certificate for participation, during Nature camp workshop, organized by SEBA at Baripada, on 24-10-2008 .



Kumari Jagnyaseni Rout, Receiving 1st Prize in quiz competition from Dr Satish Chandra Paul, during Nature camp workshop, organized by SEBA at Baripada .



SEBA

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