

**Report of one day awareness workshops organized to the stakeholders of biodiversity at five Development Blocks; Karsog (21-2-2011) in Distt. Mandi, Kunihar (8-3-2011) in Distt. Solan, Chopal (14-3-2011) in Distt. Shimla, Bilaspur Sadar (19-3-2011) in Distt. Bilaspur and Banjar (24-3-2011) in Distt. Kullu, H.P.**



**HP State Biodiversity Board  
State Council for Science Technology and Environment,  
H.P, 34-SDA Complex, Kasumpti, Shimla-9**

## **Introduction**

The H.P. State Biodiversity Board, State Council for Science Technology and Environment, HP, Shimla organized five one day awareness workshops to the stakeholders of biodiversity of Development Blocks Karsog on 21-2-2011 in Distt. Mandi, Kunihar Block on 8-3-2011, Distt. Solan, Chopal Block on 14-3-2011 in Distt. Shimla, Bilaspur Sadar Block on 19-3-2011 in Distt. Bilaspur and Banjar on 24-3-2011 in Distt. Kullu, H.P.

## **Objectives**

The objectives of the one day awareness workshops were as follows:

- To create awareness to the stakeholders of biodiversity of the Development Blocks about Biodiversity, its importance and conservation and management.
- To create awareness to the stakeholders about the Biological Diversity Act, 2002 and Rules, 2004
- To apprise the stakeholders about the implication of Biological Diversity Act
- To apprise the stakeholders about Biodiversity Management Committees and its role for conservation
- To apprise the stakeholders about Biodiversity Register

## **Methodology**

- The Resource persons were selected from Indian Agriculture Research Institute, Regional Station, Amartara Cottage, Shimla, HP, National Bureau of Plant Genetic Resource, Regional Station, Phagli, H.P, and G.B Pant Institute of Environment and Development, Mohal, Kullu, H.P. Principal Scientific Officer, State Council for Science Technology and Environment, H.P was one of the Resource Person besides the Resource Persons selected above.
- Local Block Development Officer assisted the State Council for Science Technology and Environment, H.P in co-ordinating the one day awareness workshop at their respective Development Blocks. The participating stakeholders were representative of the Panchayati Raj Institutions namely Zila Parishad Members, BDC members, Pradhans and Up-Pradhans and other members of the Panchayats, Representative of the NGO, Mahila Mandals and Yuvak Mandals which were invited through the concerned Block Development Officer of the Development Block .
- Officers /officials from the line departments were invited by the State Council through their district/division Heads. Approximate 900 participants participated in the one day awareness workshop at the five Development Blocks.
- Presentations given and lectures were delivered to the participating stakeholders about biodiversity and Biological Diversity Act, 2002.
- Literature on biodiversity and Biological Diversity Act, 2002 distributed to the participants

## **1. Development Block, Karsog, District, Mandi**

**Date : 21.2.2011**

**Venue : Ambedkar Bhawan, Karsog**

The participants were registered before the start of the technical sessions by the State Council for Science Technology and Environment, H.P (Annexure-I). One day awareness programme was organized as per the technical schedule (Annexure-II) prepared for organization of the workshop by the State Council. The participants were provided awareness material regarding biodiversity and Biological Diversity Act, 2002 (Annexure-III).

The participants were welcomed by the Principal Scientific Officer, State Council for Science Technology, H.P on behalf of H.P. State Biodiversity Board. Thereafter, the participating stakeholders namely representatives of Panchayati Raj Institutions namely Zila Parishad Members, BDC members, Pradhans and Up-Pradhans and other members of the Panchayats, representatives of Mahila Mandals and Yuvak Mandals and Line Departments were exposed to the term biodiversity, its importance, pressures on biodiversity, conservation and management needs by the Principal Scientific Officer, State Council for Science Technology and Environment, H.P.

Dr.Y.P.Sharma, Principal Scientist and Head, Indian Agriculture Research Institute (Horticulture), Amartara Cottage, Shimla, H.P, a Resource Person delivered lecture to the participants about “Biodiversity and livelihood” and linkage of biodiversity in other aspects of mankind on earth elaborating examples.

The participants were exposed to the provisions of Biological Diversity, 2002 in general and Section 41 in particular vide which constitution of Biodiversity Management Committees is mandatory at every Local body/ Panchayat level under the Biological Diversity Act, 2002 by the Principal Scientific Officer, State Council for Science Technology and Environment, H.P. The Biodiversity Register required to be prepared by the Biodiversity Management Committee at every Local Bodies / Panchayats in the country for regulation of the access, conservation and management of the biological resources and sharing of benefits accruing out of the use of biological resources and traditional knowledge based on biological resources on equity and gender basis in the State.

Discussions were held with the participating stakeholders after the lectures delivered by the Resource Persons during the one day awareness workshop at the venue of the workshop. Presentation given and photographs of the workshop and newspaper cutting are placed at Annexure- of the one day awareness workshops organized are enclosed for information.



**Photographs of Biodiversity Awareness Workshop at Karsog, District Mandi**



## **2. Development Block, Kunihar, District Solan**

**Date : 8.3.2011**

**Venue : Development Block , Kunihar**

The participants were registered before the start of the technical sessions by the State Council for Science Technology and Environment, H.P (Annexure-I).The programme was organized as per the technical schedule (Annexure-II) prepared for organization of the one day workshop by the State Council for Science Technology and Environment, H.P. The participants were provided awareness material regarding biodiversity and Biological Diversity Act, 2002 (Annexure-III).Sh. Jagir Singh, Block Development Officer, Kunihar attended the one day workshop. He addressed the participants and highlighted the activities being carried out by the Block to the stakeholders under various schemes of the Govt. of H.P.

The participants were welcomed by Sh. K.Kaisth, Principal Scientific Officer, State Council for Science Technology, H.P on behalf of H.P.State Biodiversity Board cum State Council. Thereafter, the participating stakeholders namely representatives of Panchayati Raj Institutions namely BDC members, Pradhans and Up-Pradhans and other members of the Panchayats, representatives of Mahila Mandals and Yuvak Mandals and officials from the line Departments were exposed to the term biodiversity, its importance, pressures on biodiversity, conservation and management needs by Sh.K.Kaisth, Principal Scientific Officer, State Council for Science Technology and Environment, H.P.

Dr.J.C.Rana, Principal Scientist cum Head, National Bureau of Plant Genetic Resources, Phagli, Shimla, H.P, a Resource Person delivered lecture to the participants about “Biodiversity and livelihood” and implications of the Biological Diversity Act, with regard to conservation and management of the biological resources in the State. Dr. J.C.Rana stressed the need for conservation of the traditional crops namely cereals, pseudo-cereals, millets, pulses etc. in the State. He elaborated the importance of these crops and their nutritional values for the well being of mankind. He informed that due to the selective food habits and lifestyle the number of patients having diseases namely high/low blood pressure, heart diseases, anaemia, diabetes, kidney and liver/bile stone and fatigue etc. are increasing in the state which are not diseases but are the outcome of our present life and lifestyle where we are not making use of the valuable food crops grown and eaten seasonal basis. In medical terminology bacteria, viruses, fungus, mycoplasmas are causative agents of various diseases in human beings as well as plants and animals but the regular consumption of food from traditional crops can help in controlling many modern diseases occurring in the human beings. Examples were given while elaborating and explaining the linkage of biodiversity not only to the mankind but to other living beings in the food chain and food web on the earth.

The role of biodiversity in regulating the evolutionary process and its contribution in maintaining and balancing the natural environmental /ecological systems were highlighted to the participants. The importance of Sun, earth and biodiversity on earth was explained to the participants.

The participants were exposed to the provisions of Biological Diversity, 2002 in general and Section 41 in particular by Shri K.Kaisth, Principal Scientific Officer, State Council for Science

Technology and Environment, H.P vide which constitution of Biodiversity Management Committees is mandatory at every Local body /Panchayat level under Act. The participants were informed that the Biodiversity Register required to be prepared by the Biodiversity Management Committee all the local bodies in the country for maintaining the record of the biological resources and knowledge based on the local biological resources for regulation of the access, conservation and management of the biological resources and sharing of benefits accruing out of the use of biological resources and traditional knowledge based on biological resources on equity and gender basis at local body level in the State .

Discussions were held with the participating stakeholders after the lectures delivered by the Resource Persons during the one day awareness workshop at the venue of the workshop. The participants were thanked for participating in the workshop by the Principal Scientific Officer, State Council after the technical sessions were over.

The participants were distributed the germplasm of traditional crops for sowing in their agriculture fields. Photographs of the one day awareness workshop is placed at Annexure-





**Photographs of Biodiversity Awareness Workshop at Kunihar, District Solan**



### **3. Development Block, Chopal, District Shimla**

**Date : 14.3.2011**

**Venue : Development Block , Chopal**

The participants were registered at the venue of the workshop before the start of the technical sessions by the State Council for Science Technology and Environment, H.P (Annexure-I) on 14.3.2011. The one day workshop was organized as per the technical schedule (Annexure-II) prepared for organization of the one day workshop by the State Council for Science Technology and Environment, H.P. The participants were distributed literature regarding awareness about biodiversity and Biological Diversity Act, 2002 (Annexure-III). Dr. S.P. Katyal, Co-ordinator, Himachal Manav Seva, Chopal, Tehsil Chopal District, Shimla, H.P welcomed the participants and representatives of the H.P. State Biodiversity Board cum State Council for Science Technology and Environment, H.P. Thereafter, the participating stakeholders were formally welcomed by Sh.K.Kaisth, Principal Scientific Officer, State Council for Science Technology and Environment, H.P and briefed about the purpose of the one day workshop. Dr. Bhuvish Sharma, Block Development Officer, Chopal attended the one day workshop and addressed the participants and briefed the participants about biodiversity and its importance.

After the welcome address Sh. K.Kaisth, Principal Scientific Officer, State Council for Science Technology, H.P addressed the participants namely representatives of Panchayati Raj Institutions namely BDC members, Pradhans and Up-Pradhans and other members of the Panchayats, representatives of Mahila Mandals and Yuvak Mandals and officials from the line Departments and they were exposed to the term biodiversity, its importance, pressures on biodiversity, conservation and management needs general which could create curiosity amongst the participants about the biological resources at the area.

Dr. K.K. Pramanik, Senior Scientist, Indian Agriculture Research Institute, (Horticulture), Amartara Cottage, Shimla, H.P a Resource Person delivered lecture to the participants about "Biodiversity and livelihood" and implications of the Biological Diversity Act, with regard to conservation and management of the biological resources in the State. Dr. Pramanick briefed the participants about the research and development activities being carried out by the IARI, Shimla for the development of the State. The research being carried out at the farm for improvement of planting stock about Apple, Strawberry, Akhrot and Kiwi was highlighted to the participants. Discussions were held with the stakeholders Dr. K.K.Pramanick stressed the need for conservation of the traditional as well as wild horticultural plants/trees.

Shri K.Kaisth, Principal Scientific Officer highlighted the importance of traditional agricultural crops namely cereals, pseudo-cereals, millets, pulses etc. in the State. He elaborated the importance of these crops and their nutritional values for the well being of mankind. He informed that due to the selective food habits and lifestyle the number of patients having diseases namely high/low blood pressure, heart diseases, anaemia, diabetes, kidney and liver/bile stone and fatigue etc. are increasing in the state which are not diseases but arisen because of our modern living style. Today, we have bade goodbye to everyday consumption of traditional nutritive food/crops grown and eaten on seasonal basis. It is now neither grown or eaten which is of high nutritive value and environment friendly as well. In medical terminology bacteria,

viruses, fungus, mycoplasmas are causative agents of diseases in human beings but the intake of traditional food can help in controlling so called many modern diseases occurring in the human beings. Examples were given while elaborating and explaining the linkage of biodiversity in the food chain and food web on the earth to the mankind. The role of biodiversity in regulating the evolutionary process and its contribution in maintaining and balancing the natural environmental /ecological systems were highlighted to the participants. The importance of Sun, earth and biodiversity on earth and the role its components are playing in nature was explained to the participants.

Chopal Block is rich repository of medicinal herbs and wild mushrooms and toadstools and Morchella which require immediate attention for conservation and management by the Govt. and the local people were discussed.

The participants were exposed to the provisions of Biological Diversity, 2002 in general and Section 41 in particular by Shri K. Kaisth, Principal Scientific Officer, State Council for Science Technology and Environment, H.P vide which constitution of Biodiversity Management Committees is mandatory at every Local body/Panchayat level under Act. The participants were informed that the Biodiversity Register required to be prepared by the Biodiversity Management Committee all the local bodies in the country for maintaining the record of the biological resources and knowledge based on the local biological resources for regulation of the access, conservation and management of the biological resources and sharing of benefits accruing out of the use of biological resources and traditional knowledge based on biological resources on equity and gender basis at local body level in the State . Examples were given how access and benefit sharing at community level can be managed and regulated

Discussions were held with the participating stakeholders after each lectures delivered by the Resource Persons during the one day awareness workshop at Chopal. The participants were thanked for participating in the workshop by the Principal Scientific Officer, State Council at the end of the workshop. Photographs of the one day awareness workshop organized at Chopal Development Block are placed at Annexure-



**Photographs of Biodiversity Awareness Workshop at Chopal, District Shimla**

#### **4. Development Block, Bilaspur, Sadar , District Bilaspur**

**Date : 19.3.2011**

**Venue : Gram Panchayat, Jukhala , Tehsil Bilaspur (Sadar), District Bilaspur**

The participants were registered at the venue of the workshop before the start of the technical sessions by the State Council for Science Technology and Environment, H.P (Annexure-I) on 19.3.2011 at Gram Panchayat, Jukhala. The one day workshop was organized as per the technical schedule (Annexure-II) prepared for organization of the one day workshop by the State Council for Science Technology and Environment, H.P. The participants were distributed literature regarding awareness about biodiversity and Biological Diversity Act, 2002 (Annexure-III). Sh. Puran Chand Bhatia, Pradhan, Gram Panchayat, Jukhala welcomed the participants and representatives of the H.P. State Biodiversity Board cum State Council for Science Technology and Environment, H.P at the outset of the start of the one day awareness workshop. Thereafter, the participating stakeholders were formally welcomed by Sh. K.Kaisth, Principal Scientific Officer, State Council for Science Technology and Environment, H.P and briefed about the purpose of the one day workshop. Sh. Thakur, Chairman Development Block, Bilaspur (Sadar) and Vice-Chairman Development Block, Bilaspur (Sadar), Bilaspur attended the one day workshop and addressed the participants and emphasized the need for conservation of biodiversity for maintaining good environment of the State. Both thanked H.P. State Biodiversity Board for selecting Bilaspur Sadar Development Block for organizing the one day awareness workshop and expressed their desire to include more Panchayats of the Block for undertaking the exercise for preparation of Biodiversity Registers in the Block.

After the welcome address Sh. K. Kaisth, Principal Scientific Officer, State Council for Science Technology, H.P addressed the participants namely representatives of Panchayati Raj Institutions namely BDC members, Pradhans and Up-Pradhans and other members of the Panchayats, representatives of Mahila Mandals and Yuvak Mandals and officials from the line Departments. The participants were exposed to the term biodiversity, its importance, pressures on biodiversity, conservation and management needs general which could create curiosity amongst the participants about the biological resources at the area.

Dr. K. K. Pramanik, Senior Scientist, Indian Agriculture Research Institute, (Horticulture), Amartara Cottage, Shimla, H.P, a Resource Person delivered lecture to the participants about “Biodiversity and livelihood” and implications of the Biological Diversity Act, with regard to conservation and management of the biological resources in the State. Dr. Pramanick briefed the participants about the research and development activities being carried out by the IARI, Shimla for the development of the State. The research being carried out at the farm of IARI for the benefits of the stakeholders was highlighted to the participants. Discussions were held with the stakeholders Dr. K.K. Pramanick stressed the need for conservation of the traditional as well as wild Agricultural/horticultural crops/ plants looking into their importance and utility which are available and grow in a particular climatic conditions in the area.

Shri K.Kaisth, Principal Scientific Officer highlighted the importance of traditional agricultural crops namely cereals, pseudo-cereals, millets, pulses etc. in the State. He elaborated the

importance of these crops and their nutritional values for the well being of mankind. He informed that due to the selective food habits and lifestyle the number of patients having diseases namely high/low blood pressure, heart diseases, anaemia, diabetes, kidney and liver/bile stone and fatigue etc. are increasing in the state which are not diseases but arisen because of our modern living style. Today, we have bade goodbye to everyday consumption of traditional nutritive food/crops grown and eaten on seasonal basis. It is now neither grown or eaten which is of high nutritive value and environment friendly as well. In medical terminology bacteria, viruses, fungus, mycoplasmas are causative agents of diseases in human beings but the intake of traditional food can help in controlling so called many modern diseases occurring in the human beings. Examples were given while elaborating and explaining the linkage of biodiversity in the food chain and food web on the earth to the mankind. The role of biodiversity in regulating the evolutionary process and its contribution in maintaining and balancing the natural environmental /ecological systems were highlighted to the participants. The importance of Sun, earth and biodiversity on earth was explained to the participants.

The participants were exposed to the provisions of Biological Diversity, 2002 in general and Section 41 in particular by Shri K.Kaisth, Principal Scientific Officer, State Council for Science Technology and Environment, H.P vide which constitution of Biodiversity Management Committees is mandatory at every Local body / Panchayat level under Act. The participants were informed that the Biodiversity Register required to be prepared by the Biodiversity Management Committee all the local bodies in the country for maintaining the record of the biological resources and knowledge based on the local biological resources for regulation of the access, conservation and management of the biological resources and sharing of benefits accruing out of the use of biological resources and traditional knowledge based on biological resources on equity and gender basis at local body level in the State . Examples were given how access and benefit sharing at community level can be managed and regulated.

The participating stakeholders were exposed to the technology “Conversion of Pine needles biomass into briquettes for use as fuel in the rural areas” vide which a demonstration was given at the venue of the workshop. One Briquetting Equipment was given to the local Gram Panchayat for popularizing Pine needle biomass conversion into briquettes amongst the stakeholders of biodiversity of the Gram Panchayat, Jukhala by the State Council

Discussions were held with the participating stakeholders after each lectures delivered by the Resource Persons during the one day awareness workshop at Chopal. The participants were thanked for participating in the workshop by the Principal Scientific Officer, State Council at the end of the workshop. Photographs of the one day awareness workshop organized at Chopal Development Block are placed at Annexure-





**Photographs of Biodiversity Awareness Workshop at Jukhala, District Bilaspur**

## **5. Development Block, Banjar, District Kullu, H.P**

**Date : 24.3.2011**

**Venue: Ambedkar Bhawan, Banjar**

The participants were registered at the venue of the workshop before the start of the technical sessions by the State Council for Science Technology and Environment, H.P (Annexure-I) on 24.3.2011 at Ambedkar Bhawan, Banjar. The one day workshop was organized as per the technical schedule (Annexure-II) prepared for organization of the one day workshop by the State Council for Science Technology and Environment, H.P. The participants were distributed literature regarding biodiversity and Biological Diversity Act, 2002 (Annexure-III). Sh.K.Kaisth welcomed the participants and representatives of the H.P. State Biodiversity Board cum State Council for Science Technology and Environment, H.P at the outset of the start of the one day awareness workshop and briefed about the purpose of the one day workshop. Sh.Yashpaul Sharma, Sub-Divisional Magistrate, Banjar and Sh. K.D. Chahaun, Block Development Officer participated in the one day workshop. Sh.Yashpaul Sharma, Sub-Divisional Magistrate addressed the participants and elaborated the concept biodiversity to the participants and emphasized the need for conservation of biodiversity of Banjar area.

After the welcome address Sh. K. Kaisth, Principal Scientific Officer, State Council for Science Technology, H.P addressed the participants namely representatives of Panchayati Raj Institutions namely BDC members, Pradhans and Up-Pradhans and other members of the Panchayats, representatives of Mahila Mandals and Yuvak Mandals and officials from the line Departments. The participants were exposed to the term biodiversity, its importance, pressures on biodiversity, conservation and management needs general which could create curiosity amongst the participants about the biological resources of the area.

Dr. S. S. Samant, Officer- In- Charge, G.B. Pant Institute of Himalayan Environment and Development, Mohall, Kullu, H.P, a Resource Person delivered lecture to the participants about “Biodiversity and livelihood” and implications of the Biological Diversity Act, with regard to conservation and management of the biological resources in the State. Dr. S.S Samant briefed the participants about the research and development activities being carried out by the G.B. Pant institute of Himalayan Environment and Development, Mohal, Kullu, H.P for the development of the State. Discussions were held with the stakeholders.

Dr. S. S. Samant elaborated to the participating stakeholders with examples about the role biodiversity play in building various agro-climatic conditions, how various factors contribute in creating ecosystems of various kinds on earth with different topography and geographical conditions and linkage of biodiversity in everyday life of a common stakeholders. Dr. Samant highlighted about the consumptive and non consumptive values of biodiversity to the participating stakeholders. He stressed the need for conservation of the biological resources specifically medicinal and traditional as well as wild Agricultural/horticultural crops/plants and wildlife of the area.

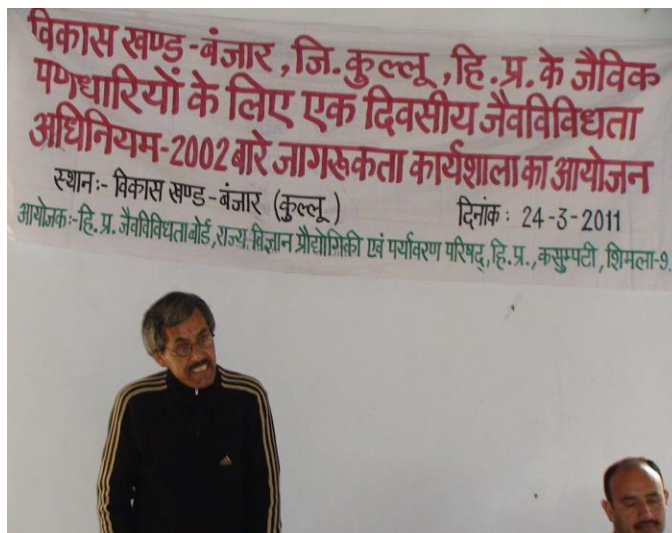
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importance of these crops and their nutritional values for the well being of mankind. He informed that due to the selective food habits and lifestyle the number of patients having diseases namely high/low blood pressure, heart diseases, anaemia, diabetes, kidney and liver/bile stone and fatigue etc. are increasing in the state which are not diseases but arisen because of our modern living style. In medical terminology bacteria, viruses, fungus, myco plasmas are causative agents of diseases in human beings but the intake of traditional food can help in controlling so called many modern diseases occurring in the human beings. Examples were given while elaborating and explaining the linkage of biodiversity in the food chain and food web on the earth to the mankind. The role of biodiversity in regulating the evolutionary process and its contribution in maintaining and balancing the natural environmental /ecological systems were highlighted to the participants. The importance of Sun, earth and biodiversity on earth was explained to the participants.

The participants were exposed to the provisions of Biological Diversity, 2002 in general and Section 41 in particular by Shri K. Kaisth, Principal Scientific Officer, State Council for Science Technology and Environment, H.P vide which constitution of Biodiversity Management Committees is mandatory at every Local body / Panchayat level under Act. The participants were informed that the Biodiversity Register required to be prepared by the Biodiversity Management Committee all the local bodies in the country for maintaining the record of the biological resources and knowledge based on the local biological resources for regulation of the access, conservation and management of the biological resources and sharing of benefits accruing out of the use of biological resources and traditional knowledge based on biological resources on equity and gender basis at local body level in the State. Examples were given how access and benefit sharing at community level can be managed and regulated.

Discussions were held with the participating stakeholders after each lectures delivered by the Resource Persons during the one day awareness workshop. The participants were thanked for participating in the workshop by the Principal Scientific Officer, State Council at the end of the workshop. Photographs of the one day awareness workshop organized at Development Block, Banjar are placed at Annexure-





**Photographs of Biodiversity Awareness Workshop at Banjar, District Kullu**

## **Conclusion**

The one day awareness workshops organized by the State Council for Science Technology and Environment, H.P for implementation of the Biological Diversity Act, 2002 generated awareness to the participating stakeholders about Biodiversity, its importance and its linkage in livelihood and other day to day life and the Biological Diversity Act, 2002 enacted by the Ministry of Environment and Forests, Govt. of India.

The Biological Diversity Act awareness has created impression in the minds of the stakeholders that the Act will help in regulating access on biological resources for sustainable use of the biological resources at local level and enable each and every stakeholder of biodiversity not only in the State but throughout the country to take initiative for conservation and protection of the dwindling biological resources.

The participation of the stakeholders was more than expected and discussed issues of concern pertaining to biodiversity of the respective areas in the workshop. It will definitely help in checking bio-piracy and provide benefits to the people at grassroots/community /individual level in future.

The Panchayat Pradhans were keen to establish Biodiversity Management Committees at their Panchayats so that status of the bio-resource and traditional knowledge based on the local biological resources could be documented for future management.



