



सत्यमेव जयते



TELANGANA STATE BIODIVERSITY BOARD

UNEP – GEF – MoEF&CC-ABS Project

On

"Strengthening the Implementation of the Biological Diversity Act and Rules with focus on its Access and Benefit Sharing Provisions"

Report on State level workshop Economic valuation of Bioresources for ABS held on on 01-03-2016 at The Haritha Plaza, Begumpet, Hyderabad.

The Telangana State Biodiversity Board under UNEP-GEF-MoEF&CC-ABS Project organized one day State level capacity building workshop on “Economic valuation of Bio-resources for Access and Benefit Sharing” on 1st March, 2016 (Tuesday) at The Haritha Plaza, 3rd Floor, Pranahitha Conference hall, Telangana State Tourism Development Corporation (TSTDC), near CM’s Camp Office, Begumpet, Hyderabad, involving Officials, Experts, NGOs, Community entrepreneurs, Professionals from Industries, Practitioners (bio-resources valuers traders), Academician and Researchers, Local level agencies, Individuals / and interest groups associated with bio-resources of the departments who are dealing with the various issues of Biodiversity

The purpose of the workshop is to create awareness and capacity building among the key biodiversity stakeholders/managers about the;

1. ABS potential bio-resources in the state
2. Bio-prospecting and its socio-economic significance
3. Current scenario of bio-resources transaction and the trend of under pricing
4. Need for identifying “real/true value” of the bio-resources
5. Methods for bio-resources valuation and
6. How benefit sharing (implementation of ABS) can act as an incentive to

community in conservation and sustainable use of biological resources.

As part of the workshop, the Exhibition stalls were setup on Biodiversity, Access and benefit sharing mechanism, ABS agreements entered between Board and Industries for access to biological resources for commercial purpose, various posters on traditional seeds and Farmers variety "Machala Kandulu (Pigeon pea) registered under Protection of Plant Varieties & Farmers' Rights Authority, India (PPVFRA). Dr. C. Suvarna, IFS, Member Secretary, TSBDB, explained regarding the Access and Benefit Sharing, Biological Diversity Act, 2002 and Telangana State Biological Diversity Rules 2015. These stalls attracted the attention of the participants and dignitaries.

The programme was inaugurated by Sri. Vikas Raj, IAS, Secretary, EFS&T department, Telangana State Government. The welcome and introductory address was given by Dr. C. Suvarna, IFS, Member Secretary, Telangana State Biodiversity Board. The other delegates on dais namely Dr. Ishwar C Poojar, Project Manager, UNEP-GEF-MoEF-ABS project, PMU, NBA, Chennai, Dr. Prakash Nellyat, Project Consultant on Economic Valuation, NBA, Chennai, Dr. Paul P. Appasamy, Visiting Professor, Madras School of Economics, Chennai and Dr. Poonam Jayant Singh, National Bureau of Fish Genetic Resources (NBFGR), Lucknow.

Initially Dr. C. Suvarna, IFS, Member Secretary, Telangana State Biodiversity Board has briefed about the Economic valuation of Bioresources for ABS. Also explained that the value of the bioresources differ from various points like trader, exporter and company levels. In this project the NBA and SBBs are studying the various individual products and quantifying the values. Some of the models have been developed for valuation of bioresources.

Dr. Ishwar C. Poojar, Project Manager, PMU, NBA Chennai told that the valuation of Bioresources is difficult because it always change the rates. Basically the companies use the bioresources as one of the base product and sometimes they use full quantity. He said that the NBA under this project have been developed various mechanisms for

valuing the bioresources. He also briefed about the models developed under this project.



Dr. Prakash Nellyyat, Project Consultant on Economic Valuation, NBA, Chennai explained on introduction to Economic valuation of Bio-resources from different ecosystems methodology for Bio-resources Valuation in ABS perspective. He showed the various analyses on value chain. He said that the valuation of biodiversity/ecosystem goods is a fundamental step towards determining the real value of bio-resources, and operationalizing the “Access and Benefit Sharing (ABS)”, one of the objectives of the Convention on Biological Diversity (CBD) as well as the Biological Diversity Act of India.

He briefed about the different methods has drafted for bio-resources valuation, which includes: (a) Value Chain Analysis, (b) The “Maximum Willingness to Pay” Approach, (c) Application of the Appropriate Economic Instruments: (tax, cess, charges, royalty etc.), (d) Minimum Support Price for Bio-resources and (e) Collectors’ Willingness to Accept and Minimum Livelihood. However, the experts proposed that “value chain analysis” of bio-resources based product is more appropriate in identifying the real value of bio-resources. Also given the various examples based on the field

studies conducted under the project in various project states on raw-materials used for manufacturing final consumer products. Many other products (inputs) and knowledge/skill (research and development) also contribute to the manufacturing the final product. Hence, the processing / manufacturing costs at different stages are significant. Through an amortised (remunerated) pricing technique, one can estimate the real price of bio-resources. The ABS concern is whether the price spread and the value addition in bio-resources transaction and manufacturing is reasonable or not, and if not, what are the abnormalities in, and how will it bounce back to the communities or providers of the bio-resources.

Dr. Paul P. Appasamy, Visiting Professor, Madras School of Economics, Chennai explained about the economic valuation of bio-resources and the provisions of the Biological Diversity Act, 2002. He also mentioned that the;

- ❖ Economic Rent” resulting from commercial utilization has to be shared with the community/society.
- ❖ It is not always possible to identify the BMC providing the bio-resources. In such cases, the benefit payment will go into the National Biodiversity Fund or shared with the SBB.
- ❖ **Challenges:** To estimate the quantum of the benefit i.e the economic rent generated through commercial utilization
- ❖ What portion/percentage should be shared with benefit claimers?
- ❖ What should be the mode of benefit sharing? Monetary or non monetary or both?
- ❖ Should the terms of benefit sharing be different for different industries- Pharmaceuticals, agro industries, nutraceuticals, personal care products etc.,?

Dr. Poonam Jayant Singh, National Bureau of Fish Genetic Resources (NBFGR), Lucknow explained about the Biodiversity associated Geographical indications for Social Economic development; Indian and European Union perspective.

After the presentations the members were divided into 3 groups and discussed various

issues related to biodiversity and economic valuation. Each group has submitted their recommendations for further action of the TSBDB. The recommendations are as follows;

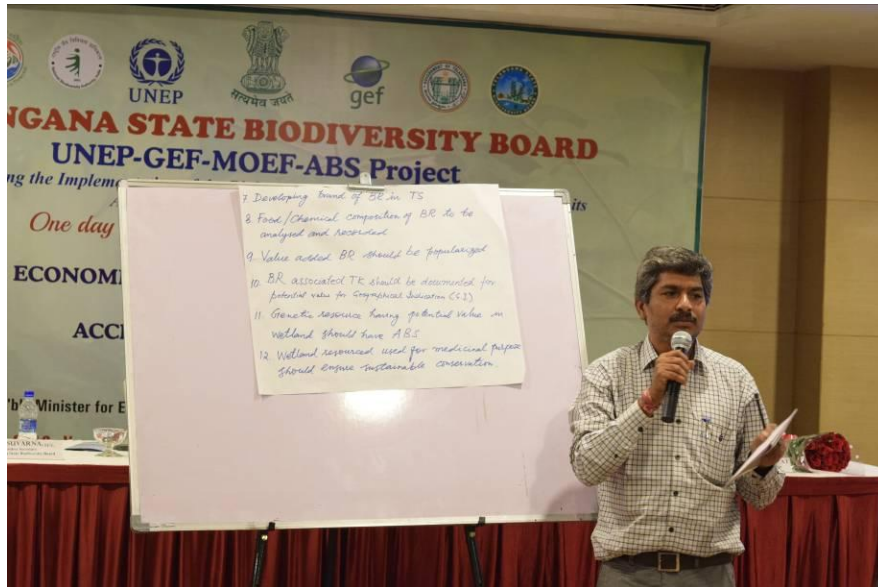
GROUP-1

1. Primary information on bioresources need to informed to the SBB.
2. Commonly available bioresource without any uniqueness flexibility in ABS required.
3. Bioresource utilization where there is a possibility of decline in Natural resource – There should be baseline for stopping utilization.
4. TKs (Such as seed collection & seed storage etc.,) must be protected under Biodiversity Act.
5. Overlapping/ conflict of interest between different regulatory bodies must be addressed –harmonization is required.
6. Agreement period is currently one year should be changed to three years minimum.
7. Speed, simplification, flexibility & harmonisation of systems with international formats.



GROUP-2

1. ABS should be limited to endemic/ geographical (Unicness) of Biological resources
2. Periodical evaluation of Biological resources (National / International)
3. Awareness & Capacity building to BMCs in ABS
4. BMC should involved & informed in every steps of Biological resources & ABS
5. Adopt a criteria to decide the price tag of Biological resource.
6. Regional / geographical mapping (digitalization) of Biological resource in collaboration with BSI/ ZSI.
7. Developing brand of Biological resources in Telangana State
8. Food/ Chemical composition of Biological resource to be analysed and recorded.
9. Value added Biological resources should be popularization.
10. Biological resource associated TK should be documented for potential value for Geographical Indication (GI)
11. Genetic resource having potential value in wetland should have ABS
12. Wetland resourced used for medicinal purpose should ensure sustainable conservation.



GROUP-3

ABS issues related to Forest and Wetlands

Forest:

1. Enlisting of Flora and fauna (above & below ground) of Telangana State.
2. Spatial distribution of flora and fauna of Telangana
3. Quantification of potential economic key species
4. Documentation of TKs related to biological resources
5. Documentation of TK practices (case studies) in conservation of Biodiversity.
6. Documentation Endemic species of Telangana State like *Cleome viscosa* (Nagarjuna Konda), *Crotalaria paniculata* (var. *Nagarjuna Kondensis*), *Calamus rotunda* (cane, warangal), etc.
7. Wild relatives of cultivated crops need to be collected for crop improvement programmes like Pigeon pea species resistant to spot borer, Dusadlu (Wild rice variety)
8. GCC should apply Form-I for accessing the biological resources for commercial purpose.

Eg: Gum Karaya

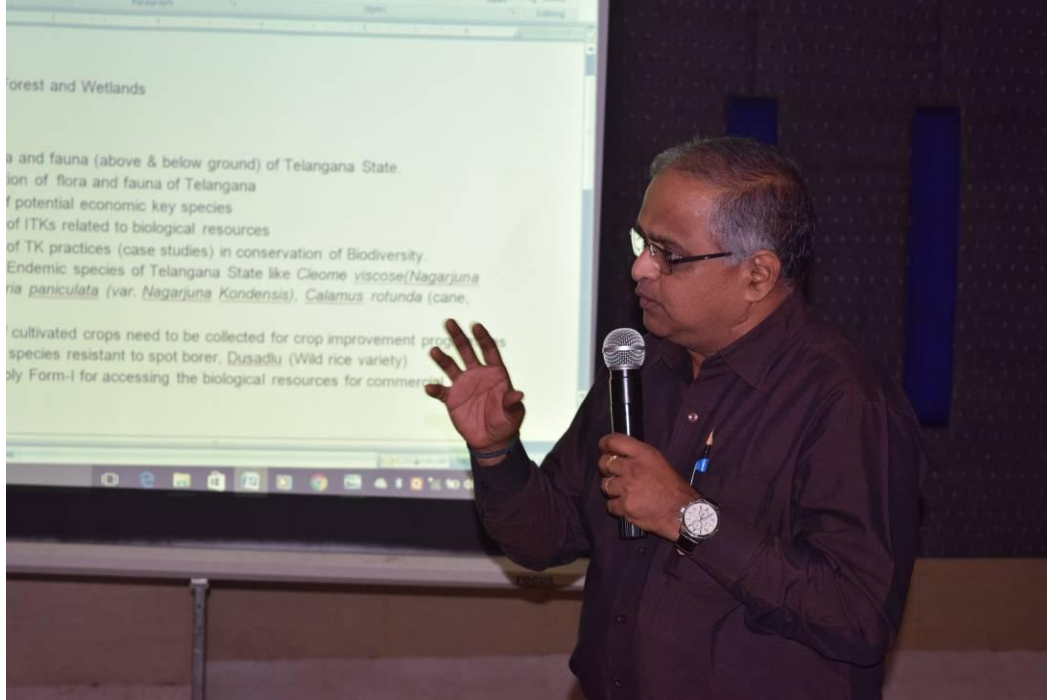
Wetlands:

1. Documentation of Biodiversity in wetland ecosystems
2. Conservation of native fish species of Telangana State for commercial exploitation.
3. Documentation of TK practices related to fish species.
4. Wetland ecosystem services assessment (provisioning, regulating, cultural and supporting services).

Expertise

- Agriculture
- Forestry/Wildlife
- Farmers
- Medicinal plants
- Biotechnology

- NGOs



The workshop was concluded by vote of thanks by G. Sailu, State Project Coordinator, UNEP-GEF-Project, Telangana State Biodiversity Board to all the participants.

Photo Gallery





List of members attended the workshop:

S.No	Name	Designation	Address
1.	J.Kotesh Kumar	Scientist –In-Charge, CIMAP	Hyderabad
2.	P.V.G.Krishana	Secretary, Green Cross NGO	Hyderabad
3.	S. Gopinath	BMC Secretary, Indervelly	Adilabad
4.	S.K.Dastha Giri	BMC Member, Jari	Adilabad
5.	B.Koteshwar	CEO, SSRSS	Nalgonda
6.	K.Dongar Rao	BMC Member, Jari	Adilabad
7.	S.K.Yousuf	BMC Member, Jari	Adilabad
8.	T.Jaya Bharathi	Secretary, Amma Womens Welfare developments Society NGO	Mahaboobnagar
9.	G.Vamshidhar Reddy	Coordinator, Amma Womens Welfare developments Society NGO	Mahaboobnagar
10.	Konda Reddy	CEO, MRDS NGO	Nalgonda
11.	Poonam Jayant Singh	Scientist, NBFGR	Lucknow
12.	Prof.B.Vidyavardhini	Professor in Botany, Telangana University	Hyderabad
13.	V.Dinesh Kumar	Principal Scientist, IIOR	Hyderabad
14.	G.D.Satish Kumar	Senior Scientist, IIOR	Hyderabad
15.	Dr.Chand Pasha	Professor, Nizam College	Hyderabad
16.	S.R.Premaiah	BMC Secretary, Kothakota	Mahaboobnagar
17.	S.P.Anil Kumar	BMC Member, Kothakota	Mahaboobnagar
18.	Venkatesh	BMC Member, Kothakota	Mahaboobnagar
19.	K Nagamani	BMC Chairperson, Ramannapalem	Khammam
20.	D.Uppendra Reddy	BMC Secretary, Ramannapalem	Khammam
21.	Dr.S.V.Ramana Rao	Principal Scientist, IIOR	Hyderabad
22.	N.Anandaiah	Coordinator, EFFORT	Khammam
23.	L V Subba Rao	Principal Scientist, IIOR	Hyderabad
24.	Dr P S Srinivas	Principal Scientist, IIOR	Hyderabad
25.	Dr. Paul Appaswamy	Professor	Chennai
26.	S Nagabramma Swamy	CEO,SEED NGO	Hyderabad
27.	J.Mahender	Aranya NGO	Hyderabad
28.	A Peddalaiah	CONCARE NGO	Mahaboobnagar
29.	Dr.Karthikeyan	Principal Scientist, CCMB	Hyderabad
30.	M.Indira Prakash	CEE	Hyderabad
31.	Dr Kamala Venkateswaram	Principal Scientist, NBPGR	Hyderabad
32.	K.Satayanarayana Reddy	Director	Nizamabad
33.	Dr. V.Vasudeva Rao	Principal Scientist and Head, All India Network Project on Vertebrate Pest Management, Professor Jayashankar Telangana State Agricultural University	Hyderabad

34.	Dr.S.J.Rahman	Principal Scientist and Head, Professor Jayashankar Telangana State Agricultural University	Hyderabad
35.	G.Surender	Research Associate, PJJSAU	Hyderabad
36.	Parameshwar	President, PSS, NGO	Mahaboobnagar
37.	G.Ramalingam	Dy CF, PCCF, T S Forest Department	Hyderabad
38.	Dr.R.Anantham	Scientist, NIN	Hyderabad
39.	Dr K Rajender Rao	Scientist, NIN	Hyderabad
40.	V Hanumantha Rao	Research Associate, PJJSAU	Hyderabad
41.	Dr V Sunitha	Scientist, PJJSAU	Hyderabad
42.	P.Sushma	BMC Chairperson, Kamareddy	Nizamabad
43.	M Padma	BMC Secretary, Kamareddy	Nizamabad
44.	S.Vijayamani	Research Scientist, IDA Bollaram	Hyderabad
45.	K Chandra Mouly	NGO Coordinator	Warangal
46.	Dr E Srinivas	Senior Scientist, RARS	Warangal
47.	K Jeevaprasad	Project associate, CEE	Hyderabad
48.	E Venkat	Team leader, CARD NGO	Khammam
49.	Dr.G.Rajashekar	Programme Manager, CSA	Hyderabad
50.	Dr.S.Laxman	Associate Director of Research Regional Agricultural Research Station, Professor Jayashankar Telangana State Agricultural University	Karimnagar
51.	Dr B Rajeswari	Senior Scientist, ADR, Professor Jayashankar Telangana State Agricultural University	Karimnagar
52.	K.Siva Prasad	Liaison Officer, NBA	Hyderabad
53.	Srinivasulu	Tech officer, CSIR-CFTRI	Hyderabad
54.	A Nagender	Sr.Tech.Officer, CSIR-CFTRI	Hyderabad
55.	P Dasu	CSA	Hyderabad
56.	Dr G Komuraiah	Secretary, KAKA NGO	Karimnagar
57.	Dr N.Srinivasa Rao	Member, CEH,Ayush	Hyderabad
58.	Dr M.Madhavi	Asst Professor, Osmania University	Hyderabad
59.	A Jayashree	Professor, JNTUM (IST)	Hyderabad
60.	K V Nanda Kumar	Media, I&PR Department, Telangana	Hyderabad
61.	Mohd Sultan Ahmed	Media, NAVA Telangana	Hyderabad
62.	V Vemuleshwar	Reporter	Hyderabad
63.	K Mangamma	BMC Chairperson, Bourampeta	Ranga Reddy
64.	Dr M Ecangovan	Principal Scientist, IIMR	Hyderabad
65.	M.Srinivas Reddy	Reporter	Hyderabad
66.	K Swamy Reddy	Andhra Jyothi Reporter	Hyderabad
67.	B Harisatyanarayana	EENADU Reporter	Hyderabad
68.	B Kishan	Namaste Telangana News Reporter	Hyderabad
69.	Srikanth Reddy	T-NEWS	Hyderabad
70.	Ramadasu	T-NEWS	Hyderabad
71.	Chitra saikeema	Journalist	Hyderabad

72.	G.Srikanth	I&PR Department	Hyderabad
73.	Srinivas setty	The Hans India	Hyderabad
74.	Raj Kumar	Andhra Jyothi	Hyderabad
75.	Ayaneya Rao	General Manager, A G Bio Systems Pvt Ltd	Hyderabad
76.	Venkat	Namaste Telangana	Hyderabad
77.	M Lalitha	BMC Chairperson, Khammam Rural	Khammam
78.	P Narendra Nath	BMC Member, Khammam Rural	Khammam
79.	Shankar	Deccan Chronicle, Reporter	Hyderabad
80.	Dr M Uma Devi	Associate Professor, Aurora	Hyderabad
81.	Dr P R Sushama	Associate Professor, O U	Hyderabad
82.	MD AZHER	URDU T V Reporter	Hyderabad
83.	M A Aceemqvadli	Senior Reporter	Hyderabad
84.	Syed omer	Reporter	Hyderabad
85.	Prabhu Chandra	Journalist	Hyderabad
86.	A Vishwanath	Journalist	Hyderabad
87.	Mohd Munir	Camara man	Hyderabad
88.	Danny Kumar Azaad	Film Maker	Hyderabad
89.	Meena Mallela	BMC Chairperson, Birkur	Nizamabad
90.	P.Laxminarayana	Managing Director, A.G.Bio Systems Pvt Ltd	Hyderabad
91.	GEF Staff	SPU, TSBDB	Hyderabad
92.	TSBDB Board Staff	TSBDB	Hyderabad