Capacity Building Workshop on "Non-detriment Findings and Review of Significant Trade in Plant Species"

January 09-11, 2011 Kathmandu, Nepal

PROCEEDINGS

Government of Nepal Ministry of Forests and Soil Conservation Department of Forests Kathmandu, Nepal



CITES Secretariat Geneva, Switzerland



Ref. No.

Government of Nepal Ministry of Forests and Soil Conservation

DEPARTMENT OF FORESTS



Babar Mahal Kathmandu, Nepal

Tel.

Fax:

FOREWORD

It is my pleasure to present the proceeding of the capacity building workshop on "Non determent Findings (NDF) and Review of Significant Trade of Plant Species" which was held in Kathmandu, Nepal from 9 to 11 January 2011 organized by Department of Forests with the financial and technical support of the CITES secretariat, Geneva.

The workshop was the first of its kind to be held in Nepal and it was a success in the sense that participants from the region were able to build their capacities on NDF and to review the significant trade CITES Annex II listed plant species. It was an immense opportunity to bring the national scientific and management authorities of plant species of CITES together with experts from CITES secretariat to share their experiences, understand how to implement effectively CITES mechanisms and review Significant Trade.

The workshop addressed key issues related with NDF and trade of CITES listed plant species and, has strengthened communication between the authorities within the region. This has increased coordination and cooperation which will certainly help in reducing illegal trade of plant species.

The issues are similar in this region and with the organization of the workshop national authorities are now able to focus on realizing the importance of CITES requirements for survival of threatened plant species through its sustainable management and use. Even more parties are now ready to report to the Plant Committee of CITES secretariat about their status and progress on the implementation of CITES related decisions through regional representatives.

For this, I would like to thank CITES secretariat and all who has been involved and contributed in making the workshop a successful event and finalizing the proceeding in this shape.

1 Anosthis

Gopal Kumar Shrestha Director General and National Management Authority for plant species

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1. Background

It is a major challenge for many countries in the region to meet the requirements for trade in CITES-listed plant species, which range from legal sourcing and sustainability of the harvest requirements to the effective control of legal trade and deterrence of illegal trade. Mechanisms exist in CITES, and in both exporting and importing countries, that promote and facilitate compliance. Countries that persistently do not meet CITES requirements and show no intention to achieve compliance, however, may be subjected to one or more international compliance measures adopted by the CITES Standing Committee and by the Conference of the Parties, including trade suspensions.

While mechanisms for identifying noncompliance and recommending actions to restore compliance are well developed, programmes to encourage and assist countries in meeting trade requirements are limited in number and funding and solutions are hampered by a lack of specialist capacity in many exporting countries, or a lack of current biological or trade information with respect to certain species. The result is poor or absent management plans for the populations of the species in the wild, reduced levels of legal trade, which in turn impact on economic growth and, on local livelihoods and, reduces options and incentives for conserving, managing and using wild resources effectively.

The CITES Secretariat is working with Parties and others to implement a number of Decisions adopted at the last meeting of the Conference of the Parties (CoP15, Doha, March 2010) that intend to strengthen the capacities of national authorities. This workshop focused on the implementation of six of these Decisions. These are Decision 15.36 on Review of Significant Trade in *Cistanche deserticola, Dioscorea deltoidea, Nardostachys grandiflora, Picrorhiza kurrooa, Pterocarpus santalinus, Rauvolfia serpentina and Taxus wallichiana* and, Decisions 15.23 to 15.27 on Non-detriment findings (NDFs).

This workshop was organized to strengthen the capacity of participants to formulate nondetriment findings and, to improve the general knowledge and understanding regarding the process of the Review of Significant Trade in CITES plant species from the South Asian region.

The workshop was also aimed at improving participants' understanding of the underlying concept of legal, sustainable and traceable trade and, model frameworks or approaches for achieving such trade.

There were 19 participants from Bangladesh, Bhutan, China, India, Indonesia, Myanmar, Nepal and Sri Lanka.

These Proceedings summarize the outcomes of the three day workshop.

2. Objectives

The main objective of the workshop was to enhance the capacity of participants to make nondetriment findings and, to respond to recommendations which result from the Review of Significant Trade of plant species.

The specific objectives were to:

- identify the difficulties in meeting the requirements for trade in CITES Appendix-II listed plant species, ranging from the sustainability of the harvest and the formulation of the non-detriment findings to the recognition of applicable legal requirements and the assurance that trade in these species was sustainable and legal.
- understand what effective implementation of CITES mechanisms involves, particularly in the case of the Review of Significant Trade in Appendix II listed species.
- strengthen the capacity of national authorities to implement effectively a number of Decisions adopted at the last meeting of the Conference of the Parties (CoP15, Doha, March 2010). These are Decision 15.36 on 'Review of Significant Trade in *Cistanche deserticola, Dioscorea deltoidea, Nardostachys* grandiflora, Picrorhiza kurrooa, Pterocarpus santalinus, Rauvolfia serpentina and Taxus wallichiana', and Decisions 15.23 to 15.27 on 'Non-detriment findings'.
- strengthen the communication among CITES authorities in the region, the Regional Representatives for Asia to the CITES Plants Committee and with the CITES Secretariat.

3. Expected Outcomes

 Management and Scientific Authorities from Bangladesh, Bhutan, China, India, Myanmar, Nepal, Pakistan and Sri Lanka are familiar with CITES requirements and compliance measures; the Review of Significant Trade is understood and implemented through fluid communication between these countries, the CITES Secretariat, the Plants Committee and, the Standing Committee.

- Current guidance on non-detriment findings for plant species is tested through case studies relevant to the region. Feedback from participating countries to be presented at the 19th meeting of the Plants Committee (PC19, Geneva, April 2011) and regional PC representatives to coordinate with other colleagues from their region on their report to the Committee; improved Asian regional report submitted at PC19.
- Parties ready to report to the PC in line with Decisions 15.23 and 15.26, the two regional representatives for Asia to the PC make progress on the implementation of Decision 15.24. The CITES Secretariat to be in a position to report at PC20 on progress made with the implementation of Decisions 15.36, 15.25 and 15.27.

4. Participants

The participants of the workshop were the Management and Scientific Authorities from Bangladesh, Bhutan, China, India, Myanmar, Nepal, and Sri Lanka as well as one regional representative, for Asia, from Indonesia, to the Plants Committee. Altogether there were 24 participants, among them 14 national authorities from seven Asian countries, and one Plants Committee member from Indonesia, two facilitators from the CITES Secretariat (Geneva, Switzerland) and, seven observers from the host country. Pakistan, unfortunately, was unable to participate in the workshop. The list of the workshop participants is given in Annex 1.

5. Management

The CITES Secretariat, based in Geneva, provided necessary technical and financial support for the workshop. Under contract with the CITES Secretariat, the Department of Forests, the CITES Management Authority for plant species in Nepal, organized the logistics for the workshop and otherwise managed the workshop.

6. Venue

The workshop was organized at the Everest Hotel, New Baneshwor, Kathmandu, Nepal.

7. Methodology

The methodology adopted for the workshop was based on the principle of "sharing and learning". More specifically, it included presentations, plenary discussions and group exercises, demonstrations and displays, experience-sharing and short briefings following participatory approaches.

8. Materials

The CITES Secretariat provided necessary NDF training materials and CITES- related documents. Other materials provided during the workshop included soft and hard copies of the NDF capacity-building package.

9. Workshop Program

The workshop was successfully conducted as per the working programme shown in Annex 2

9.1 Opening of the workshop:

Chief Guest, the Honorable Minister of Forests and Soil Conservation (MFSC), Nepal Mr. Deepak Bohara formally inaugurated the workshop by watering a *Taxus wallichiana* plant. The Honorable Minister welcomed participants and delegates and thanked the CITES Secretariat for providing Nepal the opportunity to host the workshop.

He assured participants that Nepal will take seriously their deliberations on NDF and incorporate them into the national policy. Recently, Nepal had signed a Memorandum of Understanding (MoU) with China, on matters related to the conservation of and the curbing of trans-boundary illegal trade in wild animal and plant species and soon a similar MoU would be made with India. He also emphasized that the lessons learned from the workshop would be instrumental in helping to fulfill the requirements for sustainable harvest and legal trade in CITESlisted plant species, help understand the effective implementation of CITES mechanisms and. consolidate the capacities of national authorities to implement effectively the number of decisions adopted at the last meeting of the CoP held in Doha, during March 2010.

i) Welcome Address

Mr. Gopal Kumar Shrestha , Director General, Department of Forests and Management Authority for Plant Species, Nepal, welcomed participants and delegates from the CITES Secretariat. He hoped that the workshop, the first of its kind in the region, would be fundamental in helping to enhance the capacity of national authorities in understanding the making of NDFs and various CITES related processes. He also emphasized that the outcomes of this workshop would be appropriately taken into account by CITES Authorities of the region in order to fulfill the objectives of the Convention.

ii) Opening remarks

1. Ms Marceil Yeater, Chief, Legal Affairs and Trade Policy, CITES Secretariat, Geneva, made remarks on behalf of the Secretariat. She expressed appreciation to Nepal and other participating countries and highlighted the importance of the workshop being held in a range State, in order to gain a better understanding of the context in which the regulation of CITES trade of plant species takes place. She also mentioned that one of the key purposes of the workshop was to test with participants, and to obtain their feedback upon, new guidance material that had been developed by the Plants Committee for making non-detriment findings - that is, determining whether proposed trade in a particular plant species would be detrimental to its survival in the wild.

Although the workshop's title refers to nondetriment findings and the Review of Significant Trade, she hoped that participating countries would also be considering matters such as legal acquisition findings, the setting and management of voluntary export quotas, the issuance of CITES trade documents, inter-agency cooperation, CITES compliance procedures and regionally- coordinated activities to improve the management of shared plant species.

2. Mr. Yubaraj Bhusal, Secretary, MFSC, Nepal welcomed delegates and workshop participants to Nepal. He highlighted Nepal's natural features as a country of rich biodiversity and its potential for legal trade in international markets through the implementation of CITES mechanism. He affirmed that Nepal is in a process of preparing domestic CITES legislation to ensure its commitment to the conservation of endangered wild flora and fauna and to responsible (i.e. sustainable and legal) trade in species listed in CITES which were not endangered.

3. Dr. Krishna Chandra Paudel, Joint Secretary, MFSC, Nepal, as the chair of the opening ceremony, overviewed the scope of the workshop. He hoped that participants' commitments and feedback would play an important role in developing a framework within which countries could effectively make NDFs and participate in the Review of Significant Trade in plant species. Finally, he wished all success to the workshop.

iii) Vote of Thanks

Mr. Mohan Prasad Amatya, Officiating Director General, Department of Plant Resources and Scientific Authority for plant species, Nepal, thanked all of the invitees for their participation in the opening ceremony, emphasizing that the CITES Secretariat had provided financial and technical support for organization of the workshop in Nepal. He thanked the Hon. Minister, the Secretary and the CITES Secretariat representatives for their opening remarks.

9.2 Sessions Detail

After the formal opening, different sessions of the workshop were facilitated by Ms Marceil Yeater and Ms Milena Sosa Schmidt as per the working program. The third day's sessions were chaired by the Director General, Department of Forests, Nepal. On the first day, the facilitators focused mostly on a range of different subjects and issues in order to enhance participants' familiarity with NDFs so that participating national authorities would be able to report to the PC in line with Decisions 15.23 and 15.26. The regional representative of Asia to the PC informed other participants about the progress to be made on the implementation of Decision 15.24 and the need to report at PC20 on progress made with the implementation of Decisions 15.36,

15.25 and 15.27. On the second day, a countrybased group exercise on NDFs was carried out and each participating country presented the status of information generally available to it for making NDFs, which is explained in more detail in Annex 3. On the third day, participants gave their country presentations about NDFs they had done in relation to one species from their respective countries. See Annex 4 for these country presentations. Participants finalized the workshop's findings and recommendations before concluding the last session. Complete texts of the workshop materials and presentations, along with pictures taken of different events, were burned onto a DVD and a copy was provided to each participant. The table below provides a summary of the deliberations within each of the different sessions held during the three days of the workshop.



| Topic of the session | Session Demoeration | Resource person |
|--------------------------|---|---|
| Plants in CITES | This session was focused on increasing participants' knowledge about the definition of 'species', with respect to readily-recognizable parts and derivatives, the definition of 'artificially propagated', the treatment of hybrids, and the use of phytosanitary certificates and permits for timber species under the Convention. Participants were also informed about exemptions for seedlings and tissue cultures in vitro, solid or liquid media, transported in sterile containers. | Milena Sosa Schmidt |
| Compliance with CITES | The CITES compliance procedures have their basis in and are applied in a manner consistent with the text of the Convention (e.g. Article XIII), applicable rules and principles of international law, relevant Resolutions and Decisions of the Conference of the Parties (e.g. Resolution Conf. 14.3), the decisions and recommendations of CITES subsidiary bodies and historical practices. | Marceil Yeater |
| | The CITES compliance procedures focus on the obligations to designate a Management Authority and a Scientific Authority (Article IX), to ensure that trade only takes place according to the Convention (Articles III-VII and XIV), to take appropriate measures to enforce the Convention and prohibit trade in specimens in violation thereof (Article VIII), to maintain records of trade and prepare periodic reports on implementation of the Convention (Article VIII) and to respond to communications of the Secretariat (related to information that a species in Appendix I or II is being adversely affected by trade or that the provisions of the Convention are | |
| | Plants in CITES Compliance with CITES | Plants in CITESThis session was focused on increasing participants' knowledge about the definition of 'species', with respect to readily-recognizable parts and derivatives, the definition of 'artificially propagated', the treatment of hybrids, and the use of phytosanitary certificates and permits for timber species under the Convention. Participants were also informed about exemptions for seedlings and tissue cultures in vitro, solid or liquid media, transported in sterile containers.Compliance with CITESThe CITES compliance procedures have their basis in and are applied in a manner consistent with the text of the Convention (e.g. Article XIII), applicable rules and principles of international law, relevant Resolutions and Decisions of the Conference of the Parties (e.g. Resolution Conf. 14.3), the decisions and recommendations of CITES subsidiary bodies and historical practices.The CITES compliance procedures focus on the obligations to designate a Management Authority and a Scientific Authority (Article IX), to ensure that trade only takes place according to the Convention (Articles III-VII and XIV), to take appropriate measures to enforce the Convention and prohibit trade in specimens in violation thereof (Article VIII), to maintain records of trade and prepare periodic reports on implementation of the Convention (Article VIII) and to respond to communications of the Scientariat (related to information that a species in Appendix I or II is being adversely affected by trade or that the provisions of the Convention are not being effectively implemented) (Article XIII) |

| Days | Topic of the session | Session Deliberation | Resource person |
|------|--|---|---------------------|
| 1 | Science in CITES and the Plants Committee | In this session, discussions focused on the importance of science in CITES, the need for non- detriment findings as the basis for trade, how pragmatic management can support sustainable utilization and how CITES data can be used to analyze wildlife trade trends. Science is what makes CITES achieve its conservation and environmental sustainability results, and it gives credibility to CITES decision-making processes. | Milena Sosa Schmidt |
| | | The principal requirement of managing wild resources for international trade in the context of CITES is that exports should not be detrimental to the survival of the species in the wild - i.e. they should be sustainable. The Plants Committee provides scientific advice and guidance, deals with nomenclatural issues and assists the Secretariat with the implementation of the Resolution on the Identification Manual and Decisions related to it and, upon request of the Secretariat, reviews proposals to amend the Appendices with regard to possible identification problems. | |
| 1 | Review of Significant Trade (Plants and Standing Committee) | An overview of Significant Trade Review for CITES Appendix II plant species was presented and discussed during this session, with special reference to the case of <i>Aquilaria malaccensis</i> . The result of the Significant Trade Review process generally removes the need for importing countries to apply unilateral stricter domestic measures (such as import bans or externally-imposed export quotas for range States). The process can result in individual exporting countries being assisted to undertake field studies as well as to develop the technical and administrative capacity necessary to implement the requirements of Article IV if these are lacking. | Milena Sosa Schmidt |

| Days | Topic of the session | Session Deliberation | Resource person |
|------|---|--|---|
| 1 | Role of the CITES authorities with emphasis on the role of the Scientific Authority | The respective roles of CITES national authorities were discussed. The task of the Scientific Authority is to determine and advise the Management Authority whether the export of specimens of species included in Appendices I and II is detrimental to their survival and the key responsibility of the Management Authority is to issue CITES permits and certificates, <i>inter alia</i> , on the basis of advice from the Scientific Authority where this is required under the Convention. The Management Authority also has responsibility for recordkeeping and reporting, for communication with other Parties and the Secretariat and for the coordination of CITES implementation at national level. In this context, it should ensure that the Scientific Authority is informed about all relevant CITES issues. | Marceil Yeater and Milena Sosa Schmidt |
| 1 | Non-detriment findings. | This section started explaining the terms and concepts in the text of the Convention that relate to the impacts of trade on species. A non-detriment finding may be understood as a conclusion by a Scientific Authority that the export of specimens of a particular species will not impact negatively on the survival of that species in the wild. It was explained in which circumstances the non-detriment finding by a Scientific Authority is required. Key concepts to remember were presented. The Resolution Conf. 10.3, Role of the Scientific Authority, recommends that the NDF are based in : distribution; population status; population trends; harvesting techniques; other biological and ecological factors; and utilization and trade information. In the CITES Strategic Vision: 2008-2013 Parties set the Objective 1.5 as the Best available scientific information is the basis for non-detriment findings. With the initiative of Mexico and, through document CoP14 Doc. 35, the Parties decided to organize an international workshop with experts on NDF. The idea was to strengthen capacities of CITES Scientific Authorities, in particular related to methodologies, instruments, information, technical knowledge and other necessary resources to formulate NDF. The approach of an adaptive management was presented. | Milena Sosa Schmidt |

| Days | Topic of the session | Session Deliberation | Resource person |
|------|----------------------|--|---------------------|
| | | Documents Doc. 16.2.2 on Report of the Animals and Plants Committees and, Doc. 16.3 on non- detriment findings for timber, medicinal plants and, agarwood, provide an overview of the work done on this matter by both Committees; they also present a complete list of reference documents that have been produced by the Committees on NDF. Decisiones 15.23 to 15.27 agreed at the last CoP, establish the procedure for Parties, the Animals and | |
| | | Plants Committees and, the Secretariat, to continue the work of revision of the current guidance as tools to make NDF in order to submitt the results for consideration at CoP16. | |
| 2 | NDF Exercises | Participating countries saw now in more depth: | Milena Sosa Schmidt |
| | | 1- The process of formulation of NDF followed in their countries; | |
| | | 2- The guidance proposed by the Plants Committee to make NDF proposed in document CoP15 Doc. 16.3; | |
| | | 3- The consultation by the Plants Committee per Notification to the Parties 2011/004. | |
| | | 4- Next steps: input to the PC. | |
| | | A country-based group exercise on NDF was carried out during the full second day of work in order to assess whether the participating countries considered the PC guidance applicable for their CITES plant species. | |
| | | The exercise used the form in Notification 2011/004 for evaluating the availability of information for making NDFs (i.e. to assess the level of risk which trade could present for the survival of the populations of the species in the wild).n annexfrce base. | |
| | | Each participating country then presented the results of its group exercise, which focused on one CITES Appendix II species found in its territory. Details of the group exercise results are given in Annex 3. | |
| | | Participants agreed to send their results to the PC through the regional report of Asia. The regional representative for Asia to the PC, agreed to liaise after the workshop with all present countries in order to include this information in the regional report to PC19. | |

| Days | Topic of the session | Session Deliberation | Resource person |
|------|---|---|------------------------------------|
| 3 | Nepal's country presentation on <i>Taxus wallichiana</i> | Nepal presented the current trade status of the species. The trade has decreased in recent years due to the species' regulation under CITES and also a decline in the resource base | Gopal Kumar Shrestha |
| | China's country presentation on <i>Cistanche</i> <i>deserticola</i> | This parasitic plant attaches itself to the root of Haloxylon sp. and is found in the desert ecosystem. Although the species is not considered to be 'endangered' under CITES, the species is categorized as 'endangered' in the IUCN Red List. China only issues permits for artificially propagated plantation products. Artificial propagation increased after the 1980s. The records of 2008 showed the plantations covered 900 hectares. Plantation production was 5600 tons in 2010 | Dr. Haining Qin |
| | Bangladesh's country presentation on Aquilaria malaccensis | This is an exotic plant species for Bangladesh and the trees are 50-80 ft tall. It is used mainly for agarwood production. Plantations cover 200 hectares. Businessmen buy trees which are 8-10 yrs old or older. Ten year old trees have a girth of 20-30cm . The price of agarwood oil is 1000 US\$ per litre. The life span of a natural tree is 30-50yrs and the lifespan of an artificially propagated tree is 10yrs. tAgarwood is produced by making wounds on trees and then inoculating them with Micorhiza, mixed with soil within a polyester bag. | Dr. Tapan Kumar Dey |
| | Bhutan's country presentation on Aquilaria malaccensis | No export from Bhutan is allowed. Old trees are used for experiemental purposes by the government institute of medicine. There has not been any research on the chemical component and ingredients. The plant is reported to be used only for religious purposes by Hindus and Buddhists. Bhutan has no data on the quantity of local consumption. | Sonam Tobgay |
| | Srilanka's country presentation on <i>Nepenthes</i> <i>distillatoria</i> | This is a tropical pitcher plant found in waterlogged open areas. It is distributed in patches and the population status is unknown. There is a high demand for the species in Japan and the UK as an ornamental plant. Sri Lanka issues export permits for cut flowers produced from tissue cultures. | Ratnayake Hitibandarale Dayawan |

| Days | Topic of the session | Session Deliberation | Resource person |
|------|--|--|---|
| | India's country presentation on <i>Pterocarpus</i> <i>santanalis</i> | India proposed this plant for inclusion in CITES Appendix II in 1997. No legal trade is allowed in India. The natural habitat has decreased from 20000 to 5000 hectares. Heartwood is used commercially after removal of sapwood. A national capacity building workshop on related NDFs was conducted recently. Cultivation is promoted in the original habitat, Andhra Pradesh has the best wood quality. The species is valued for Sanatalin, dye, wood powder, and its medicinal properties. Even the roots are dug out for use. | Dr. Maheshwar Hegde |
| | Myanmar's country presentation on <i>Rauvolfia serpentina</i> | The species is not protected by legislation in Myanmar. It has been difficult to make a NDF and therefore no CITES export permits have been issued. The annual harvest quota is fixed by the Department of Forests (both the Scientific and Management Authority). | Maung Maung Than |
| | Indonesia's country presentation on <i>Aquilaria</i> <i>malaccensis</i> | A field guidebook on this species was published and local management guidelines were formulated. It is characterized by fast growth and can reach 5m tall in 5 yrs time. The seed germination rate is 90%. Suspension inoculation to stem is used to artificially produce agarwood. It is called Black Magic Wood by Muslims. Quota calculation is based on 3yrs production at the national level. No critical problems have occurred Indonesia regarding its management | Dr. Tukirin Partomihardjo |
| | | There are problems in connection with inoculation as artificially produced agarwod is inferior to natural agarwood. The smell of agarwood oil varies from species to species. There have been attempts to produce artificial oil. | |
| | Findings and Recommendations. | The CITES Secretariat gave a short presentation on compliance and enforcement issues related to the medicinal plant trade and implementation of CITES in the region. Under the guidance of the chairperson, participants worked together to review and evaluate the workshop and then reached agreement on the Findings and Recommendations contained in subsequent sections of this report. | Mr. Gopal Kumar Shrestha, Marceil Yeater and Milena Sosa Schmidt |
| | Closing of the workshop | Mr. Gopal Kumar Shrestha, Chairperson of the third day's sessions finally closed the workshop with his concluding remarks | Mr. Gopal Kumar Shrestha |

10. Financial statement

The total expenditures for the workshop totalled US\$ 33298.00. A summary of the workshop's expenditures is given in Annex 5.

11. Findings

The three-day workshop concluded with the following findings:

- Information and specialized capacity for making NDFs for plant species are lacking in some of the South Asian countries
- Strengthening the technical capacity of the Scientific Authority working on plant species of certain countries is essential.
- Many countries in the region share similar challenges regarding the conservation, management, sustainable use and trade of CITES-listed plant species.
- National technical guidelines on methodologies to assess the sustainability of harvesting plant species from the wild (and from plantations) is often lacking.
- The workshop was meaningful for sharing experiences and learning about the management of, conservation of, sustainable use of and trade controls for CITES-listed plant species in the region.
- There is a need to designate Scientific and Management Authorities for plant species in each country which are independent of each other but which nevertheless work in close coordination.
- Information on biology, conservation and trade, of plant species sometimes exists but is often incomplete and out-of-date; up-todate information of this nature is sometimes lacking.

- More effort is needed to ensure that the plants are given the same attention as animals in CITES. Often the animal species take the full dedication of the CITES authorities and plants species are relegated; this results in huge loses of revenue for the concerned Governments that could be gaining billions of dollars from a legal trade in their plant products. Activities should be designed to improve management plans, conservation strategies, national legislation and enforcement measures for plant species.
- The CITES Secretariat should help range States access the funds needed to conduct population surveys and other NDF-related studies and, also to organize national level workshops for raising awareness about CITES requirements.
- All participants agreed that the workshop was successful and that, informationsharing should continue among countries through this kind of activities (e.g. organizing additional regional workshops on a periodic basis whenever possible)
- The conservation of plant species should be promoted through their sustainable use and responsible trade.

12. Recommendations

The workshop participants unanimously agreed on the following recommendations

- Develop and conduct more awareness-raising programmes on non- detriment findings for all plant species that are listed in CITES.
- Create a funding mechanism to assist countries in conducting surveys and research on NDF-related matters.

- Carry out more capacity building activities on NDF-related issues, for Scientific Authorities in range States of Appendix II plant species.
- Develop more robust rules and procedures for compliance monitoring and enforcement, and implement them effectively
- Undertake preliminary assessments of the status of the populations of CITES plant species in the wild; an interim measure can be the setting of cautious harvest and export quotas and, reconsider the utility and the need to keep an export ban in place with no strategy to lift it.
- Strengthen and promote regional cooperation mechanisms for a improving the implementation of CITES in the region.
- Consider the guidance proposed by the Plants Committee and other tools as the 'radar plot diagram' for plant species and, identify national level funding to undertake capacity building activities on NDFs.
- Encourage bilateral and multilateral collaboration on curbing illegal trade in plants, plant products and derivatives.
- Establish Biodiversity Detection Units at Customs border points.
- Enhance capacity to carry out research and development activities aimed at technology transfer and value added goods so that local communities can get more benefits from the CITES-listed species, which should help to decrease overexploitation pressure on wild populations.
- Future workshops should be held in different countries on a rotating basis. This will give all national authorities the opportunity to contribute to and to help attain effective cooperation and coordination between

exporting and importing countries for legal and sustainable CITES trade and quick handling of any incidents of illegal trade.

- The CITES Secretariat should take the initiative to strengthen national capacity to formulate NDFs for plant species and to articulate CITES requirements for plant species with the national CITES legislation.
- Criteria and indicators for NDFs should be developed.
- Coordination and cooperation between national (including local), regional and international stakeholders on CITES-related matters should be strengthened.

13. Conclusions

Imposing permanent bans on the export of specimens of particular species may encourage illegal trade. Therefore, apart from banning the export of specimens of particular plant species, range States may take measures to produce missing biological and ecological information, gather existing information of this nature, adopt national strategies and management plans to conserve and ensure a sustainable harvest of the populations in the wild and, increase production from plantations when these can release pressure of harvesting the populations in the wild. Although illegal trade cannot be fully stopped, it can be controlled and kept to a minimum level if range States are committed to promote and ensure sustainable, legal and, traceable CITES trade in plant species. Each participating country benefited from the sharing of each other's experiences and, from the CITES Secretariat's presentations. In their final evaluation of the workshop, participants determined that they benefited a lot from this workshop and agreed that such workshops should be conducted regularly to strengthen CITES capacity in the region to work on plant species.

It was agreed that all participating countries will now coordinate with the two Regional Representatives for Asia to the Plants Committee in order to submit-to the next meeting of the CITES Plants Committee (PC19, Geneva, April, 2011) - the results of the NDF exercise undertaken during the workshop, in accordance with Notification to the Parties No. 2011/004 [http://www.cites.org/ eng/notif/2011/E004.pdf].

The participation of the Regional Representative for Asia to the PC, Dr. Tukirin, was found to be highly valuable for enhancing communications within the region and with the Plants Committee.



Annexes

| Email | jsadmin@moef.gov.bd, chowdhurynasim59@yahoo. com | deytkcfwild@gmail.com | stobgay 107@yahoo.com | kingyel@hotmail.com, k_lhazen@yahoo.com, jamkhar @ yahoo.com | Yuanlch@yahoo.com.cn | hainingqin@ibcas.ac.cn |
|--|--|--|--|---|--|---|
| Authority | Management | Scientific | Scientific | Management | Management | Scientific |
| Country | Bangladesh | Bangladesh | Bhutan | Bhutan | China | China |
| Professional Experience (Years) | 25 years | 25years | 8years | 16years | 4 Years | 19 years |
| Two Highest Academic Qualification | Post graduate in Management | Ph.D wildlife Biology,M. sc forestry,M. sczoology | M.Sc Mountain Forestry | Master in Environmental management. | Ph.D (Plant Biology) | Research Professor Ph.D |
| Organization | Joint secretary (admin.) Government of the people's Republic of Bangladesh, Ministry of Environment and Forest | Conservator of forests, Wildlife &Nature circle Department of Forest | Sr, Forest officer, Head Bio- Diversity Inventory, Data & Management plan section, wildlife Division Department of Forests and Park Services, Ministry of agriculture & Forest | Chief forestry officer, Department of Forests and Park Services | Division of flora affairs, C+C17hina cites management authority/the endangered species import and export management office, P.R China state forestry administration no.18 Hepinigli Dongji, Beijing 100714, P.R.China | Specilists Group and red list focal point of china ,IUCN SSC, Research professor, Institute of Botany Academy of Science, Xiangdhan Beijing china 10093 |
| Participants Name | Mr. A. N. Shamsuddin Azad Chowdhury | Dr. Tapan Kumar Dey | Mr. Sonam Tobgay | Mr. Kinzang Gyeltshen | Mr. Yuan liangchen | Haining Qin, Ph.D. |
| S.N | T. | 2 | m | 4 | ы | Q |

Annex 1 : List of Participants

| al Country Authority Email | India Management rowlmef@yahoo.co.in | India Scientific hegdem@icfre.org, mahesh-heg@yahoo.com | Indonesia tukirin@indo.net.id | Myanmar Management nwcdfdmof@gmail.com, putoo911@hotmail.com | Myanmar Scientific nwcdfd@gmail.com | Nepal Management dgdof@dof.gov.np , sgk0245@gmail.com | Nepal Scientific dprdog@ntc.net.np | Nepal Management harihar.sigdel@gmail.com | Nepal Scientic | |
|--|---|--|---|--|--|--|---|---|---|------------------------|
| Experience (Years) | 12 Years | 12 Years | | | 28 Years | 34 Years | 32 Years | 31 years | | 22 Years |
| Two Highest Academic Qualification | M.Sc (Geoology) Research Officer | Ph.D. M.Sc (Agriculture) | Ph. D. | | B.Sc. (Vetenary), | M.Sc (Forestry) | M.Sc. (Pharma.) | M.Sc Forestry, M. Sc.Chemistry | Ph. D. | M Dh / Dlant |
| Organization | Research officer, wildlife Division, Ministry of Environment and Forest, Room no. 441 Parayavaran Bhawan , New Delhi | Scientist, Institute of Forest Genetics and Tree Breeding(IFGTB), Coimbatore, India | Research centre for Biology, Indonesian Institute of Science Jajan Raya jakarta | Director, Training & Research Division, Forest Department, Building39, Nay Pyi Taw, | Asst. Director, Nature and wildlife conservation Division Department, Ministry of Forestry, Nay pyi Taw | Director General, Department Of Forest | Officiating Director General, Department of Plant Resources | Deputy Director General, Department of Forests | Under Secretary, Department of Plant Resources | Department of wildlife |
| Participants Name | Ms. Chandra Rawat | Dr. Maheshwar Hegde | Dr. Tukirin Partomihardjo | Mr. Maung Maung Than | Mr. Thien Aung | Mr. Gopal Kumar Shrestha | Mr. Mohan Prasad Amatya | Mr. Harihar Sigdel | Dr.Sushim Ranjan Baral | odeverated via |
| S.N | 2 | ∞ | б | 10 | 11 | 12 | 13 | 14 | 15 | 16 |

| S.N | Participants Name | Organization | Two Highest Academic Qualification | Professional Experience (Years) | Country | Authority | Email |
|---------|---|---|---|---------------------------------------|-----------|--|------------------------------------|
| 17 | Mr. Sarathnayake Ratna Bandra Dissanayake | Department of wildlife conservation | M. Ph (Birds) | 27 Years | Sri lanka | Scientific | sarathdisa@yahoo.com |
| 18 | Ms Marceil Yeater | "Chief, Legal Affairs and Trade Policy CITES Secretariat | BA Poltical Science, JD (Juns Doctor) | 35 Years | Geneva | Lawyer | marceil.yeater@cites.org |
| 19 | Ms Milena Sosa Schmidt | "Scientific Officer CITES Secretariat " | Biology Plant (University)Master in Science, Ph.D (FM) | 13 Years | Geneva | Botanist | Milena.Schmidt@cites.org |
| Observe | rs (Organising Committe€ | e Members) | | | | | |
| 1 | Mr. Prakash Nath Pyakuryal | Under Secretary, Planning and Monitoring Division, Department of Forests | M.Sc Forestry(USA), Diploma Forestry (India) | 27years | Nepal | Forester | ppyakuryal@yahoo.com |
| 2 | Mr. Ram Nandan Sah | Under Secretary CITES Section National Forest Division Department of Forests | B.Sc. (Forestry) M. S. (Natural Resource Management) | 25 years | Nepal | Forester and Natural Resource Manager | ravisasi2@hotmail.com |
| ŝ | Mr. Hem Aryal | Under Secretary, National Forest Division, Department of Forests | M.Sc Forestry, B.Sc Forestry | 21years | Nepal | Forester | hemaryal@yahoo.com |
| 4 | Mr. Deepak Acharya | Assistant Forest Officer, National Forest Division, Department of Forests, CITES Section | M. A. Economics, I.Sc (Forestry) | 22 years | Nepal | Forester | deepakacharya_2003@ hotmail.com |
| ъ | Mr. Achyute Tiwari | Assistant Botanist, Department of Plant Resources | M.Sc Botany | 7years | Nepal | Botanist | achyut_18@yahoo.com |
| 9 | Mr. Diwakar Chapagain | Coordinator Wildlife Control, WWF- Nepal | M.Sc Degree, | 25years | Nepal | Lawyer | diwakar.chapagain@ wwfnepal.org |
| 7 | Mr. Dinesh Satyal | Office secretary, WS organising Committee | B.Sc Forestry | Student | Nepal | Forester | dnshsatyal@gmail.com |

Capacity Building Workshop on Non-detriment Findings and Review of Significant Trade in Plant Species

Annex-2a Workshop working programme

| Workshop Schedule | | | | | |
|---------------------|---|--------------------------------------|--|--|--|
| 1st day: 09 January | | | | | |
| Time | Activity | Facilitation | | | |
| 08h00-09h30 | Break fast | | | | |
| 09h30-10h45 | Registration and Opening | | | | |
| | Milena | | | | |
| 10h45-11h00 | Break (coffee-tea) | | | | |
| 11h00-11h30 | Plants in CITES | Milena | | | |
| 11h30-12h00 | Compliance with CITES | Marci | | | |
| 12h00-12h45 | Science in CITES and the Plants Committee | Milena | | | |
| 12h45-13h30 | Review of Significant Trade (Plants and Standing Committee) | Milena | | | |
| 13h30-14h30 | Lunch | | | | |
| 14h30-15h30 | Role of the CITES authorities with emphasis on the role of the Scientific Authority | Marci (MA, 30')- Milena (SA, 30') | | | |
| 15h30-16h00 | Break (coffee-tea) | | | | |
| 16h30-18h00 | Non-detrimental findings | Milena | | | |
| 18h30-20h00 | Reception Dinner | | | | |
| 2nd day: 10 January | | | | | |
| 08h00-09h00 | Break fast | | | | |
| 09h00-10h30 | Non-detrimental findings (exercise) | Milena | | | |
| 10h30-11h00 | Break (coffee-tea) | | | | |
| 11h00-13h00 | Non-detrimental findings (exercise) | Milena | | | |
| 13h00-14h00 | | Lunch | | | |
| 14h00-15h30 | Non-detrimental findings (exercise | Milena | | | |
| 15h30-16h00 | Break (coffee-tea) | | | | |
| 16h00-17h30 | Non-detrimental findings (exercise | Milena | | | |
| 3rd day: 11 January | | | | | |
| 08h00-09h00 | Break fast | | | | |
| 09h00-10h30 | Case examples from Bangladesh, Bhutan, China, India, Myanmar, Nepal, Pakistan, and Sri Lanka | Marci | | | |
| 10h30-11h00 | Break (coffee-tea) | | | | |
| 11h00-13h00 | Case examples from Bangladesh, Bhutan, China, India, Myanmar, Nepal, Pakistan, and Sri Lanka | Marci. | | | |

| | Workshop Schedule | | | | | |
|-------------|--|--------|--|--|--|--|
| 13h00-14h00 | Lunch | | | | | |
| | | | | | | |
| 14h00-15h30 | Conclusions and recommendations. Closing the workshop | Milena | | | | |
| 15h30-16h00 | Break (coffee-tea) | | | | | |
| 16h00-17h30 | Conclusions and, recommendations. Closing the workshop | Milena | | | | |

Annex-2b Workshop working programme

| Opening Ceremony | | |
|------------------|--|---|
| Time | Activity | |
| 10:00 | Registration | All Invitees |
| | Chairing the Session | Dr. Krishna Chandra Paudel, Joint Secretary, Ministry of Forests and Soil Conservation |
| 10:15 | Welcome and objective of the work shop | Mr. Gopal Kumar Shrestha, Direc- tor General, Department of Forests |
| 10:25 | Inauguration | Chief Guest, Honorable Minister Mr. Deepak Bohara , Ministry of Forests and Soil Conservation |
| | Opening Remarks | |
| | Representative Cites Secretariat | Ms. Marceil Yeater, Chief,Legal Affairs and Trade Policy, CITES Secretariat, Geneva |
| | Guest | Mr. Yubraj Bhusal, Secretary, MFSC |
| | Chief guest | Honorable Minister Mr. Deepak Bohara , MFSC |
| | Vote of Thanks | Mr. Mohan Prasad Amatya, Of- ficiating Director General, Depart- ment of Plant Resources |
| 10:40 | Closing Remarks | Chairperson, Dr. Krishna Chandra Paudel, Joint Secretary, MFSC |
| 10:45 | Tea and Snacks | |

Annex-3a NDF Exercise Findings

| THE A | AVAILIBILITY OF INFORMATION IN M | AKING OF ND | F TO ASSESS TH | IE RISK LEVEL O | OF A SPECIES |
|-------|---|-------------|----------------|-----------------|--------------|
| | | Indonesia | Bhutan | Bang | adesh |
| S. N. | Element | | Aquilaria r | nalaccensis | |
| | | wild | wild | wild | plantation |
| 1 | 1. Distribution | | | | |
| 2 | 2. Abundance of the population | | | | |
| 3 | 3. Population trend in comparison with historical references | | | | |
| 4 | 4. Age structure of the population | | | | |
| 5 | 5. Biological cycle and reproductive strategy | | | | |
| 6 | Habitat requirements and adaptability (specialist versus generalist) | | | | |
| 7 | 7. Impact of the disappearance of the species on the ecosystem | | | | |
| 8 | 8. Capacity for natural repopulation of areas where it has disappeared | | | | |
| 9 | 9. Is the species migratory? | | | | |
| | USE | | | | |
| 10 | 10. Quantity of material harvested | | | | |
| 11 | 11. Stage of the biological cycle when the harvest takes place | | | | |
| 12 | 12. Extent and type of area being harvested (usually determined by ease of accessibility) | | | | |
| 13 | 13. Existence of a regulatory system, in particular limits to harvesting and areas where harvest is prohibited. | | | | |
| 14 | 14. Does harvesting destroy the whole specimen? | | | | |

| THE | AVAILIBILITY OF INFORMATION IN M | AKING OF ND | F TO ASSESS TH | IE RISK LEVEL C | OF A SPECIES |
|-------|---|-------------|----------------|-----------------|--------------|
| | | Indonesia | Bhutan | Bangl | adesh |
| S. N. | Element | | Aquilaria n | nalaccensis | |
| | | wild | wild | wild | plantation |
| 15 | 15. Level of demand for the species and value of product(s) in trade | | | | |
| 16 | 16. Is harvesting continuous, regular or other? | | | | |
| 17 | 17. Do the harvesting methods cause side damages? | | | | |
| 18 | 18. Does harvesting have conservation purposes for the species? | | | | |
| 19 | 19. Does the harvesting extend to other species? | | | | |
| | OTHER FACTORS | | | | |
| 20 | 20. Probable extent of illegal trade | | | | |
| 21 | 21. Degradation and loss of habitat | | | | |
| 22 | 22. Effect of pollution | | | | |
| 23 | 23. Will harvesting in the area covered by the non-detriment finding have consequences for the species in other parts of its range? | | | | |
| 24 | 24. Competition from alien invasive species | | | | |
| 25 | 25. Diseases, meteorological incidents | | | | |
| 26 | 26. Risks associated with climate change | | | | |

Filled with one of the colours below according to the availability of information:

| Detailed | Limited | Not available |
|----------|---------|------------------|
| | | |

| | THE AVAILIBILITY OF INFORM | ation in makin | IG OF NDF TO ASS | ESS THE RISK LEV | EL OF A SPECIES | |
|-------|--|---------------------|---------------------------|----------------------------|-------------------------|--------------------------|
| | | NEPAL | INDIA | SRILANKA | MYANMAR | CHINA |
| S. N. | Element | Taxus walichiana | Pterocarpus santalinus | Nepenthes distillatoria | Rauwolfia serpentina | Cistanche deserticola |
| | 1 | Wild | Wild | Wild | Wild | Wild |
| 1 | 1. Distribution | | | | | |
| 2 | 2. Abundance of the population | | | | | |
| ε | Population trend in comparison with historical references | | | | | |
| 4 | 4. Age structure of the population | | | | | |
| ъ | 5. Biological cycle and reproductive strategy | | | | | |
| 9 | Habitat requirements and adaptability (specialist versus generalist) | | | | | |
| 7 | 7. Impact of the disappearance of the species on the ecosystem | | | | | |
| ∞ | 8. Capacity for natural repopulation of areas where it has disappeared | | | | | |
| 6 | 9. Is the species migratory? | | | | | |
| | USE | | | | | |
| 10 | 10. Quantity of material harvested | | | | | |
| 11 | 11. Stage of the biological cycle when the harvest takes place | | | | | |
| 12 | 12. Extent and type of area being harvested (usually determined by ease of accessibility) | | | | | |

| | THE AVAILIBILITY OF INFORM | ATION IN MAKIN | G OF NDF TO ASS | ESS THE RISK LEV | 'EL OF A SPECIES | |
|-------|---|---------------------|---------------------------|----------------------------|-------------------------|--------------------------|
| | | NEPAL | INDIA | SRILANKA | MYANMAR | CHINA |
| S. N. | Element | Taxus walichiana | Pterocarpus santalinus | Nepenthes distillatoria | Rauwolfia serpentina | Cistanche deserticola |
| | | Wild | Wild | Wild | Wild | Wild |
| | 13. Existence of a regulatory | | | | | |
| 13 | system, in particular limits to harvesting and areas where | | | | | |
| | harvest is prohibited. | | | | | |
| 11 | 14. Does harvesting destroy the | | | | | |
| Ft | whole specimen? | | | | | |
| | 15. Level of demand for the | | | | | |
| 15 | species and value of product(s) in | | | | | |
| | trade | | | | | |
| 16 | 16. Is harvesting continuous, | | | | | |
| 0T | regular or other? | | | | | |
| 17 | 17. Do the harvesting methods | | | | | |
| , - | cause side damages? | | | | | |
| | 18. Does harvesting have | | | | | |
| 18 | conservation purposes for the | | | | | |
| | species? | | | | | |
| 10 | 19. Does the harvesting extend to | | | | | |
| т | other species? | | | | | |
| | OTHER FACTORS | | | | | |
| 20 | 20. Probable extent of illegal trade | | | | | |
| 5 | 21. Degradation and loss of | | | | | |
| 17 | habitat | | | | | |
| 22 | 22. Effect of pollution | | | | | |

Capacity Building Workshop on Non-detriment Findings and Review of Significant Trade in Plant Species

| | THE AVAILIBILITY OF INFORM | ATION IN MAKIN | G OF NDF TO ASS | iess the risk lev | EL OF A SPECIES | |
|-------|---|---------------------|---------------------------|----------------------------|-------------------------|--------------------------|
| | | NEPAL | INDIA | SRILANKA | MYANMAR | CHINA |
| S. N. | Element | Taxus walichiana | Pterocarpus santalinus | Nepenthes distillatoria | Rauwolfia serpentina | Cistanche deserticola |
| | | Wild | Wild | Wild | Wild | Wild |
| 23 | 23. Will harvesting in the area covered by the non-detriment finding have consequences for the species in other parts of its range? | | | | | |
| 24 | 24. Competition from alien invasive species | | | | | |
| 25 | 25. Diseases, meteorological incidents | | | | | |
| 26 | 26. Risks associated with climate change | | | | | |

Filled with one of the colours below according to the availability of information:

| Not available | |
|------------------|--|
| Limited | |
| Detailed | |

Annex 4 Country Presentations





 Leaves of Agarwood are alternate, leathery, 5-8.7 cm, lanceshaped, pointed with faint parallel nerves.

- Wood scented due to the presence of a resinous substance.
- It is found in East Himalayan low hills, Assam, Bangladesh and Myanmar.
- The wood is scented and used as incense and commands a very high price.
- Diseased trees become infiltrated with a resinous substance. It is the diseased wood that is valuable, for the hard dark coloured masses are caused by a fungus, resulting in the eaglewood or agar wood of commerce.
- The light coloured wood in which the resin is embedded is distilled into an oil called 'agar-attar' used in perfumes.
- Agarwood is mainly planted by the Forest Department and also by the local people of Molvibazar district. FD has raised 2000 ha. Plantation since 2000 in Sylhet and Chittagong.





















| Ag | ar wood Produ | icts Exported from | Bangladesh | During | the year | 2009 and 2 | 010. |
|-----------|---|---|---------------------|----------------------------------|----------------------|------------------------------------|------|
| SL no. | Exporter (Name and Address Country) | Importer (Name and Address) | Description | Purpose of the transaction | Security stamp no | Quantity, number of specimen | Year |
| 01 | 02 | 83 | 84 | 05 | 86 | 87 | 68 |
| 01 | Bengal Perfumery House No: 64/2, Block-C Kumarpara Sylhet, Bangladesh. | Mobrook Perfume Co. Saud Bin A Aziz St. Saud Comm. Centrer, P.O Box : 495 Mubarakiya Souk A1-Dakhly 15255, Kuwait. | Agar Wood Chips. | Trade | BD 9118243 | 15,600 kg's | 2009 |
| 02 | Md. Badrul Islam M/S Almed Khan Perfumes Trade, Gangkul, Dakshinbag, Barlekha, Moulve Bazar, Bangladesh. | Abdullah Shab Ahned Thani M/S Almedkhan Perfume Trade Old Medaf Hotel, Murshed Bazar, Diere, Dubai, UAE | Agar Wood Chips. | Trade | BD 9118243 | 200 kg's | 2010 |
| | | | | | | | |

| lant Species which canr permission as per Wil (P | ot fell, extract and trade witho dlife (Conservation) Act-2011 roposed) |
|--|---|
| Vernacular/Common name | Scientific name |
| Tali Palm | Corypha taliera (Roxb.) |
| Civit | Swintonia floribuonda (Pierre.) |
| Boilam | Anisoptera scaphula |
| Gilla | Entada phaseoloides |
| Chal Mugra | Gynocardia odorata |
| Haritaki | Terminalia chebula |
| Ashok | Saraca asoca/indica |
| Jhum Alu | Dioscorea pentaphylla |
| Chundul | Tetramelis nudiflora |
| Kumbi | Careya arborea (Roxb.) |

| Amur | Amoora cuculata (Roxb.) |
|---------------|------------------------------------|
| Udam Bet | Calamus longiscctus (Griff.) |
| Dhup | Canarium resiniferum (Brace.) |
| Katalal Bana | Castanopsis armafa (Spach.) |
| Karpur | Cinnamomum camphora |
| Tajbahol | Cinnamomum iners (Reinew.) |
| Maniraj cycas | Cycas pectinata |
| Bandarhola | Duabanga sonneratoidss (Buch-Ham.) |
| Rangirata | Dysoxylum bincetariferum (Hook.) |
| Asphal | Euphorbia longan (Steud.) |

| Baichi | Flacourtia indica (Merr.) |
|--------------|------------------------------|
| Anantamul | Hemidermus indicus |
| Pipermint | Mantha spicato (Limn.) |
| Banspata | Podoeurpus nerifolia |
| Mao Alo | Discorea esculanta |
| Uriam | Mangifera longipes |
| Paduk | Pterocarpus aeelbergioedes |
| Rita | Sapindus mukorosi (Gaer.) |
| Kusum/ Joyna | Schlciehera oliosa (Okin.) |
| Udal | Sterculia villosa (Roxb.) |
| Harjora | Vitis quadrangularis (Will.) |
| Trikoni Bot | Ficus triangularis |
| Lata Bot | Ficus ripens |
| Bansai Bot | Ficus cyanthistipula |
| Gaya Aswatha | Ficus rumphii |

| Raktan | Lophopetalum fimbriatum |
|------------------|-------------------------------|
| Amhastia/Parijat | Amhastia nobilis |
| Uday Padma | Magnolia grandiflora |
| Jahari Champa | Magnolia pumila |
| Kunch | Abrus precatorius Linn. |
| Kamdeb | Calophyllum polyanthum Wall. |
| Khirpa | Lumnitzera racemosa Willd. |
| Kurchi | Holarrhena pabescens Wall. |
| Khalshi | Aegiceras corniculatum Blanco |
| Galgal | Cochclospurmum religiosum |
| Jat Batna | Quercus lancaefolia Roxb. |
| Shilbatna | Quercus velutina Lindl. |
| Jain | Trachyspermum ammi Linn. |
| Tali | Dischopsis polyantha Benth. |
| Tamal | Diospyros cordifolia Roxb. |

| Narikeli/Buddha Narikel | Pterygota alata |
|-------------------------|-------------------------------|
| Harina | Vitex peduncularis Wall. |
| Shingra | Cynometra ramiflora Linn. |
| Samundarphal | Barringtonia racemosa |
| Mailam | Bonea oppositifolia Meissn. |
| Banak | Cretaeva nervosa |
| Passur | Xylocarpus mekongensis Piere. |

| Orchids | | | | |
|------------------------|----------------------------------|--|--|--|
| Vernacular/Common name | Scientific name | | | |
| Ornamental orchid | Vandopsis gigantca (Lindl) | | | |
| Blue Vanda | Vanda coerulea | | | |
| Kuth | Saussurea lappa | | | |
| Ladies slipper | Paphiopedilum spp. | | | |
| Pitcher plant | Nepenthes khasiana | | | |
| Red vanda | Rananthera inchootiana | | | |
| Bulbo phyllum | Bulbophyllum roxburghii (Reich.) | | | |
| Duthie | Eulophia mackinnonii (Duthie.) | | | |
| Cymbidium | Cymbidium aloifolium (Linnaeus.) | | | |
| Dendrobium | Dendrobium maccarthiae | | | |
| Dendrobium | Dendrobium macrophyllum | | | |
| Dendrobium | Dendrobium nobile | | | |
| Dendrobium | Dendrobium primulinum | | | |

Some Recommendations :

- We need help of CITES secretariate for NDF study and field visit of Plant Committee allocation of quatos for agarwood plantation forest.
- We need capacity building training support on CITES activities.
- Employment of trained manpower in airport, sea port and land ports to stop illegal, hunting ,poaching and trade of animal and plants species.
- Institutional and logistic support for monitoring CITES implications.

Bhutan



Def Dy Volation of rules issued under this section is an offence punishable with imprisonment which may extend to 3 months or a fine equal to the fair market value of the forest produce illegally transported, imported or exported, or both; and in addition any such forest produce, or the proceeds from the sale thereof, shall be confiscated'.
 DoFPS staff & ITMS fully deployed in the field during the harvesting time

Permitting Practices

20.Unclaimed Timber- "Any timber found beached, stranded, or sunk, and any other unmarked or unclaimed timber or other forest produce shall become property of the Royal Government if no person can establish a valid right of possession within one month after a notification has been

published of its being found".

 Till date only special permits/ approval given to the ITMS for collection & use in traditional medicine annually by the Department of Forestry & Park Services

PROCEEDINGS

31

China

Cistanche deserticola • a perennial , parasitic herb, on roots of Haloxylon ssp restrict range to NW China and Mongolia key species to local dessert ecosystem threat status: CR A2c (2004), 906 tons of stems from natural population(MA 2009) • population details: unclear



•Significant traditional medicinal plant for long time • Wild plants was forbidden to collect and export permits only issued for cultivated specimens

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|---|
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| stemi (kg) Exective 3750 2500 6 Inspective 175.56 175 |
| 8ems (12) Experter 37.50 5.60 6. Ingerter 178.50 179 |
| Importer 175.50 175 |
| |
| Source: CITES Trade Database, UNEP-World Conservation Monitoring Centre, Cambridge, UK |

Legal Implements

C.deserticolar has been used as medicinal plants since 18 c

- Now harvest of Wild C.deserticolar was banned Forest Law (1998 rev) Regulations on the Protection of Wild Plants (1997) State Council Notification(2000) XinJiang Reg.Regul.(2007) Inner Mongolia Reg.Regul.(2009)
- Only cultivated products are allowed to export by law
- and regulations
- **CITES** framework
- Customs Law (1987)
- Regulations on the Import and Export Management of Endangered Wild Fauna and Flora (2006)





Global Amphibian Specialist Group **Asian Amphibian Conservation: Integrating Research and Protection** Claude Gascon, GASG Chair/CI



Photo: Jeet Sukumaran

Don Church, GASG Coordinator/CI

Simon Stuart, IUCN-SSC Janice Long, IUCN-SSC Neil Cox, IUCN-SSC

Capacity Building Workshop on Non-detriment Findings and Review of Significant Trade in Plant Species



| on | the analysis o | of NFI sample pl | ots |
|------------|----------------|--------------------|-------------------|
| Location | No. of plots | Total area (ha) | Density per ha |
| SUMATRA | | | |
| Low land | 15 | 135 | 0.47 <u>+</u> 0.3 |
| Up land | 3 | 27 | 0.36 <u>+</u> 0.1 |
| KALIMANTAN | | | |
| Low land | 24 | 216 | 0.83 <u>+</u> 0.7 |
| Up land | 11 | 99 | 1.17 <u>+</u> 1.0 |



Aquilaria beccariana

- Gaharu laut, mengkaras, puti, gumbil minyak •
- Kalimantan, Sumatra
- Primary & secondary
- forest
- · Lowland to 850 m asl.

.

- tree >40 m,
- · Leaf ovate-wide elliptic 7,5 -12 x 5 cm
- Inflorescence umbel
- Flower 9-10 mm, tabung
- Fruit compress , acute at both ends 3-4 cm
- · Seeds 2, brown, shining.
- · Basal aril reddish brown, hairy





Aquilaria cumingiana

Gaharu

- **Celebes**, Moluccas
- Tree 10-20 m tall. 30 cm diam
- Leaf elliptic oblong
- Flowers tube 5-6 mm
- Fruits ovate, yellow, mesocarp thick

Seeds (1) 2

Aquilaria filaria

- Gaharu irian, lason (Seram), age (Sorong), bokuin (Morotai) .
- Nusa Tenggara, Maluku, Papua, Lowland primary & secondary forest Tree >20 m, .
- .
- •
- Tree >20 m, 30 cm diam Leaf elliptic oblong-lancet 10-20 x 3-6 cm Inflorescence umbel Flower tube,6-7 mm, Iobes rounded Fruit ovate, yellow Mesocarp thick, 2,5 cm •
- .
- .





Aquilaria hirta

- Gaharu bulu, karas
- Sumatera, Malaysia
 Lowland
- Medium size tree15 m,
- Leaf and young branch densely vellous,
- Leaf widely ovate,15-16 x 8-
- 10 cm Inflorescence umbel
- Flower 10 mm, tube green
- Fruit hairy, spindle shaped



Aquilaria malaccensis



Gaharu, karas, kekaras, mengkaras, galoop, halim India, Malaysia, Sumatra, Kalimantan, Philippines Primary & secondary forest, lowmedium alt. Trap ≥10 om ≥ 60 cm diam

- Tree >40 m, > 60 cm diam Leaf elliptic oblong-lanceolate 7,5-12 x 2-5 cm
- Inflorescence umbel Flower cup-shaped 5-6 mm
- Stamen 10 (twice of petals)







- Ketimunan, gaharu Lombok
- NTT, Maluku, Papua
- Lowland-
- submontane <1000 m
- Leaf elliptic
- Inflorescence umbel
- Flower calyx tube
- long, stamens 5
- Fruit ovoid oblong,
- Seed black, shining with white aril





Capacity Building Workshop on Non-detriment Findings and Review of Significant Trade in Plant Species





| on density estimation from NFI sample plots | | | | | | | |
|---|---------------------------|---------------------------------|---------------------------------|--|--|--|--|
| Location | Forest area (x1000 ha) | Population size (a) (x 1000) | Population size (b) (x 1000) | | | | |
| SUMATRA | | | | | | | |
| Low land | 13,934 | 6,548.9 <u>+</u> 4,180.2 | 418.0 <u>+</u> 418.0 | | | | |
| Up land | 3,348 | 1,205.3 <u>+</u> 569.1 | 133.9 <u>+</u> 133.9 | | | | |
| KALIMANTAN | | | | | | | |
| Low land | 31,199 | 25,995.2 <u>+</u> 22,775.6 | 1,559.9 <u>+</u> 1,559.9 | | | | |
| Up land | 1,790 | 2,094.3 + 1,951.1 | 483.3 + 129.6 | | | | |

| Year | Malacensis groups | | Filaria (| groups | Remarks | |
|------|-------------------|-------------|-----------|-------------|-------------------------|--|
| s | Kuotas | Realisation | Kuota | Realisation | | |
| 1996 | 300,000 | 299,986 | | | | |
| 1997 | 300,000 | 341,497 | | | | |
| 1998 | 150,000 | 124,313 | | | | |
| 1999 | 300,000 | 74,616 | | | | |
| 2000 | 225,000 | 52,194 | | | | |
| 2001 | 75,000 | 72,426 | 125,000 | 125,000 | Including Gyrinops spp. | |
| 2002 | 75,000 | 50,000 | 125, 000 | 125,000 | Including Gyrinops spp. | |
| 2003 | 50,000 | 49,585 | 125, 000 | 125,000 | Including Gyrinops spp. | |
| 2004 | 50,000 | 50,000 | 125, 000 | 124,500 | Including Gyrinops spp. | |
| 2005 | 50,000 | 49,919 | 125.,000 | 125.,000 | Including Gyrinops spp. | |
| 2006 | 50,000 | 50,000 | 125, 000 | 121,505 | Including Gyrinops spp. | |
| 2007 | 35,000 | 35,000 | 65,000 | 65,000 | Including Gyrinops spp. | |
| 2008 | 30,000 | 30,000 | 60,000 | 60,000 | Including Gyrinops spp. | |
| 2009 | 173,250 | 29,520 | 455,000 | 128,327 | Including Gyrinops spp. | |
| 2010 | 162.500 | ? | 489,700 | ? | Including Gyrinops spp. | |









India

Non-detriment Findings & Review of significant Trade for <u>Pterocarpus</u> <u>santalinus</u>

Maheshwar Hegde Chandra Rawat INDIA



GEOGRAPHICAL DISTRIBUTION OF RED SANDER

 The distribution of this plant species is restricted to an elevated position of parts of Chittoor, Cuddapah and Nellore districts of Andhra Pradesh, South India, particularly in the hill ranges of Seshachalarn.

Now the distribution reduced to < 5000ha area

·Populations are fragmented



POPULATION STATUS AND THREATS

Pterocarpus santalious was classified as endangered in bi 1997 IUCN Red List of Threatened Plants (Walter & Gillett 1998) based on results of Conservation and Assessment and Management Plan (CAMF) workshops for plants of southern India in 1995 and 1997. The species is similarly assessed as Endangered in the World List of Threatened Trees (Oldfield & al.1998) and the 1994 IUCN Red List due to its small range, fragmented populations and continuing decline (IUCN 2006).



POPULATION STATUS AND THREATS

- Habitat in the Central Deccan Plateau is considered under severe threat from conversion to cash crop plantations, fuel wood collection, and overgrazing by cattle (Rawat & al. 2001).
- According to an Andhra Pradesh Forest Department, there are very few specimens of harvestable size in the State Forests. Illegal harvest continues to be considered a key threat.





REVIEW OF SIGNIFICANT TRADE

- 15th CoP held at Doha directed the Range State of *Pterocarpus santalinus* that parties should ensure the implementation of regionally coordinated actions to improve the management of the seven species and ensure that the trade therein is legal, sustainable and traceable.
- These measures could include, inter alia, the organization of regional capacity-building workshops, the improvement of methodologies to make non-detriment findings and determine legal acquisitions, the harmonization of management and compliance measures, and development of incentives to prevent illegal trade.

MEASURES TAKEN BY MANAGEMENT AUTHORITY OF INDIA

- · Capacity building workshops have been conducted
- NDF studies with improved methodologies has been taken up for Pterocarpus santalinus
- Research institutes/Forest Departments are developing techniques to promote cultivation of the species in farm land.
- Inclusion of Pterocarpus santalinus under the Schedule of Wildlife (Protection) Act, 1972 is under consideration. ٠

MEASURES TAKEN BY MANAGEMENT AUTHORITY OF INDIA

- * Export of Pterocarpus santalinus wood in any form whether raw, processed or unprocessed obtained from wild or cultivated sources are prohibited.
- · As per CITES provisions, export can only be allowed in the listed species of Appendix II, if a Non-Detrimental Finding (NDF) is conducted by a Scientific Authority. At present the NDF for this species is lacking in India.

LEGAL PROTECTION

- 1. Tamii Nadu Timber Transit rule

- Andhus Prudesh Timber Transit rule
 Andhus Prudesh Timber Transit rule
 Wild Life (Protection) Act 1972 & amediments -Prohibit any removal
 for a restinctualing *Percoarpus samulatus* from Protected Areas
 Indian Forest Act-Unauthorized possession, transportation of timber
 is a cognizable offence
- is a cognizante difference of a constraint of the constraint of
- instruments) 6. Violations of export policy invite the punishment under the Customs Act such as imprisonment extending upto 7 years and fine or both. 7. Any select/confiscated Red Sanders wood is allotted to the artisans through the Andhra Pradesh Handicrafts Development Corporation, Hyderabad with a direction that the material brought back should not be sold/auctioned to private parties

EXPORT OF Pterocarpus santalinus UNDER EXIM POLICY

- · The export of Pterocarpus santalinus can be allowed if the NDF study is in place.
- · Presently NDF study for Pterocarpus santalinus is under process.

| Legal Export of Red sander from India (only value added products of Red Sanders wood such as extracts, dyes, | Cernifyour of Crips from the Process scaling out the logisty of the maternal (Forest Act / Forest Produce Transb Rulez) |
|---|---|
| musical instruments and parts of musical instruments made from Red Sanders wood , procured from legal sources) | Recommendation J Charance from the Min. of Divisionments & Foredra (Pulley insue concerning Front Produce de (TTER) |
| DGFT-Directorate General of Foreign Trade –Ministry of Commerce& Industry | ETC License from DOPT (Palay level iccose of Report Trade control) |
| | Shipping Bill / Checklan by Castoms (Casteins Act) |
| | CITES Expert Permit (CITES) by the Ast. Management Authority |
| | Pre-shipment Ensumation and super-tendescencer on the CITED Paratic (CITED) by the Wild 1, its impactor of the Wild Lafe Regimal Offers |
| | Inter of LEO(Contents Ast) |

Nepal





Distributed in the Northern hemisphere that includes North America, All Europe, Northwest Africa and North Asia from Iran to China. at the elevation range of 1800-3300m.

BACKGROUND

Reported to be distributed throughout 39 districts of Nepal. Found in association with Silver fir, Kharsu Oak and sometimes with Spruce as an understorey in Fir Forest. A strongly shade-tolerant, evergreen tree usually 6 to 20m in

height with a trunk up 2m.

Bark reddish brown, thin scaly, leaves distichious, linear with recurved margin, shining above, pale yellowish brown below.

Diocious, male stobili stalked, globose arising from the axils of the leaves on the under side of the branchlets and female strobili solitary, axillary.

Growth rate slow, woody is hard and durable. Conservation status is little known and vulnerable due to over exploitation

MANAGEMENT

- No detailed management plan for hill districts. Instead a five -year working schemes are prepared for the management.
- Management history of Taxus is not very old, importance recognized only in 1995 after Dabur Nepal was allowed collection and harvesting of 800 MT of leaves from 9
- districts of Nepal. Management prescription included in the working schemes after 2000. No separate scheme or plan exists for the individual species.
- Management objectives include meeting the forest product needs of people and of industry on sustained basis, generating local employment and promoting natural and artificial regeneration.

MANAGEMENT

•Main elements of scheme include yield estimation of leafy biomass, fixation of lopping cycle and method of harvest, monitoring, seedling production and plantation, biodiversity conservation. •Restoration measures includes protection of natural regeneration and promotion of artificial plantation. Officially negligible work done so far. Dabur Nepal has been producing seedlings and distributing farmers for cultivation in private lands since 1995

 Field staff like forest guards and rangers responsible for monitoring but weak due to difficult terrain and paucity of staff in many districts as a result irregularities reported in harvesting leading to the death or heavy damage to trees in many

Legal framework and law enforcement

- Forest management, harvesting and sale of forest products are governed by the forest law.
- Illegal cutting of trees or harvesting leaves is a forest crime and punishable by the Forest Act, 1993. Trees are not allowed to cut on account of its medicinal
- value but needles can be harvested with permission of DFO.
- Export of Taxus leaves in unprocessed form is banned by the law and is punishable involving seizure of material with fine according to the value of product or 5 years imprisonment or both.
- Taxus baccata has been included in CITES, Appendix II and can be exported with CITES certificate. CITES
- implementation law is in pipeline.

Nepal

Harvest Regime

- Trees above 20cm diameter are selected for harvest. The main parts harvested are leaves and twigs below 1.5 cm
- Harvest takes place from March-June and Oct-December . Harvesting is done from secondary branches up to 2/3
- portion of crown leaving upper 1/3 untouched. The yield of leaf clippings varies from 15-25 kg per tree
- (green weight). A three-year rotation has been fixed for harvesting.
- Clippings are gathered, bundled and taken to depots. Dried in shade for 4-5 days ensuring moisture level at 10%. Dried leaves are packed in jute sacks and sent to the factory.

Harvest Management/Control

- At present non of the company has got quota for harvest from the government. Dabur Nepal has closed its factory while Machhapuchre Herbal and Natural Flower and Herbal Pvt. Ltd are still hopeful of getting agreement done
- Herbai PVt. Ltd are still noperul of getting agreement done between them and the govt getting quota fixed. First company to be established was Dabur Nepal in 1995. It received a quota of 800 MT/yr for 5 yrs which was extended for another 5 yr in 2000 but cancelled in 2003 due to failure in complying with the condition of harvest. Similarly, Machhapuchre Herbal established in 2001 and
- and Natural Flower and herbal established in 2002 got a quota of 800MT and 400 MT respectively for 5 yrs. Their quota not extended failing to prepare EIA reports in time.

Harvest Management/Control

- New Regulations stipulates that instead of providing quota to companies, the government will auction Taxus leaves through its DFOs according to the allowable cut prescribed in the schemes. CFUGs can also auction if OP permits.
- Company has to follow rules fixed for harvesting. District Forest Officers verify the quantity collected, collect associated fees, and issue a "release order", which is required to transport harvested products out of the district of origin.
- The release order should state: the species and quantity transported, the destination and the period in which transportation must take place.
- Department of forests provide export permit of semiprocessed products.

Legal and Illegal

- Table 1 shows the total guantities sold through DFOs by the government between 2001-2010. However, it does not include small quantities sold by CFUGs from their community forests.
- From the table it can be inferred that collection was less that quota fixed and virtually no sale after 2007.
- Illegal harvesting of leaves is believed to exist in small quantities probably not exceeding 10 MT/yr especially from the eastern part of the country and most of these cross the boarder though different names.



CHALLENGES OR DIFFICULTIES FOR ELABORATION OF NDF

- Inadequate knowledge on the size of the present population and trends in the rate of resource decline
- (or if decline is taking place).
 Occurrence of this species in remote and inaccessible terrain makes management and monitoring of harvesting work difficult.

Capacity Building Workshop on Non-detriment Findings and Review of Significant Trade in Plant Species

Myanmar

Capacity-building on 'Non-detriment findings and Review of Significant Trade for plant species' Kathmandu City, Nepal, from 9 to 11 January 2011.

> Non-detriment finding on Rauvolfia serpentina (L)Benth in Myanmar

Mr. Maung Maung Than, Director, Training and Research Development Division, Forest Department.

Mr. Thein Aung, Assistant Director, Nature and Wildlife Conservation Division. Forest Department.

Rauvolfia serpentina (L)Benth

Biological data Common Name

- Rauvolfia root, Serpentine root, Snakewood (Eng.) Bon-ma-ya-zar (Mya.)
- Distribution
 Abundantly in natural Evergreen and Moist deciduous Forest of Myanmar as an understory species. (Kachin, Kayin, Shan, Sagaing, Bago and Mandalay)
- Population
- Unknown. (Abundant natural regeneration)
 Conservation status
- The species in not protected within national legislation.
- Management Plan
- There is no management plan for restoration or alleviation
 Utilization and trade
 - The species is collected and traded mainly for domestic use in indigenous medicines.

Legal acquisition Findings

- The species is not yet protected within national legislation in Myanmar.
- Harvesting are controlled via the Forest Law and The Protection of Wildlife and Conservation of Natural Areas Law.
- Annual harvest quotas are set by the Forest Department based on information provided by foresters in their forestry operation reports.
- Regular forest operations are undertaken annually under Myanmar's Forest Management System.

Permitting practices

- · CITES Management Authority have never issued export permits.
- · FD allows collection as a non-timber forest product and issue bills.
- Just over 52,000 kg was recorded as harvested in the financial year 2006-07 and just over 16,000 kg between 1 April 2007 and September 2007. From 2001 to 2004 the FD allowed around 70 t (fresh weight) to be harvested for domestic use.

Briefly description

Management

- The species is not yet protected within national legislation, however harvests are controlled via the Forest Law and the Protection of Wildlife and Conservation of Natural Areas Law.
- No scientific surveys have been undertaken of this species.
- No monitoring system on the use of this species.
- CITES Management Authority have never issued export permits.
- No management plan.
- Current level of harvest will not adversely affected population.
- Some small-scale trial plantations for local medicinal supply have been established.

Sri Lanka

Nepenthes distillatoria

- a tropical pitcher plant endemic to Sri Lanka
- grown in waterlogged open scrub
- distribution is restricted to lowland rain forests
 conservation status: vulnerable (IUCN)
- population size: unknown





- Major threat: Habitat loss and invasive species Used for commercial purposes (ornamental plant)
- Permits issued only for artificially propagated specimen



Legal acquisition

Before CITES came into effect the exporters had started business on *Nepenthes* spp. as ornamental plants.

Now wild collection is banned.

Only tissue cultured products are legally exported to other countries, all the data available at the CITES management authority





Capacity Building Workshop on Non-detriment Findings and Review of Significant Trade in Plant Species

| S.N. | Particular | Days | No. of Participants | RATE | Estimated Cost (US\$) | Actual expenditure | Differeces | Remarks |
|----------|--|------------|------------------------|---------|--------------------------|----------------------|------------|---|
| | Allowances/Accomodation for Partic | ipants of | the workshop | | | | | |
| | Participants (international) daily allowance for pocketmoney 4 days | 4 | 16 | 142 | 3180.80 | 2584.5 | 596.30 | No participation from Pakistan but two additional Nepalese participants |
| 1 | Participants (international) DSA 1 day | 1 | 16 | 142 | 2272.00 | 1846 | 426.00 | |
| | Accomodation with breakfast in five star hotel for international participants only | 4 | 16 | 85 | 5440.00 | 5100 | 340.00 | four night extra (two night for Bhutan and two night for China) |
| | Sub Total | | | | 10892.80 | 9530.5 | 1362.30 | |
| | Two way air fare and transportation | for partic | ipants | | | | | |
| | Bangladesh | | 2 | 390 | 780 | 780 | | |
| | China including one regional | | 2 | 640 | 1280 | 1280 | | |
| | representative | | 2 | 860 | 1720 | 1720 | | |
| | India | | 2 | 396 | 792 | 792 | | |
| | Pakistan | | 2 | 870 | 1740 | 870 | 870 | one ticketed not refunded |
| 2 | Myanmar | | 2 | 1613 | 3226 | 3226 | | |
| | Srilanka | | 2 | 1258 | 2516 | 2516 | | |
| | Indonesia (Regional representative) | | 1 | 1250 | 1250 | 1250 | | |
| | participants | 2 | 18 | 5 | 180.00 | 180 | | |
| | transportation cost for all local participants for 3days | | 31 | 10 | 310.00 | 310 | | |
| | Sub Total | - | | | 13794.00 | 12924 | 870 | |
| | Stationary & Training Materials | | | | | | | |
| | Bag packs for participants and | | 35 | 40 | 1400 | 1400 | 0 | |
| 3 | Stationary & Training Materials | | | | 500.00 | 500 | 0 | |
| | Photo copies | | | | 300.00 | 300 | 0 | |
| | Sub Total | | | | 2200.00 | 2200 | 0 | |
| | Refreshment | | | | | | | |
| | Break fast for national participants and | 3 | 8 | 10 | 240 | 340 | | |
| | organising committee members | | | | 2.0 | 0.10 | -100 | included 10 more |
| 4 | Tea Coffe cookies for three days during ws | | 82 | 3 | 246 | 372 | -126 | Inaugural/opening session along with minister and secretary of ministry of Forest and Soil conservation |
| | Buffet Lunch for three days | | 82 | 10 | 820 | 820 | 0 | |
| | Cocktail Reception Dinner | 1 | 45 | 15 | 675.00 | 1500 | -825.00 | 27more participated with drinks including invitees and drivers |
| | Sub Total | | | | 1981.00 | 3032 | -1051.00 | |
| | Equipments and publication | | | | | | | |
| _ | Laptop with printer (purchase) | 1 | | 1000 | 1000 | 1000 | 0 | |
| 5 | Editing and Publication of ws Proceeding | 1 | | 1500 | 1500 | 1500 | 0 | |
| | Sub Total | | | | 2500 | 2500 | | |
| | Total | | | | 31367.80 | 30186.5 | 1181.3 | |
| 6 | Secretarial Services, Management expenses and Miscelleneous | | | | 3136.78 | 2126 59 | 0 | |
| <u> </u> | Grand Total | | 1 | | 34504.58 | 33323.08 | 1181.3 | |
| | List of Participants in the Workshop | | | | | | | |
| 1 | Representative from 8 member | 16 | | | | | | |
| | countries (2 from each country) | 1 | | | | Total Estimate | 04504 50 | |
| 3 | Representative from Geneva | 2 | | | | Actual Expenditure : | 33333 00 | |
| | Observers from hosting country | | It varied on di | fferent | | · | 33323.08 | |
| 4 | including organising committee members | 13 | days of v | /S | | | | |
| | Total no.of mandays during three work shop days | 82 | | | | | | |

Annex 5 : Statement of Expenditures



