



## **STATE MEDICINAL PLANT BOARD/ NTFP**

THE PERFORMANCE OF NTFP/SMPB DIVISION FROM 1994 – 95 TO 2009– 10

### **A. ACHIEVEMENT OF MINOR FOREST PRODUCE DIVISION FROM 1994-05 TO 1998-99**

Sl. No.	Name of Schemes	Year	Amount Received	Area in Ha.	Physical Target Achieved	Financial Target Achieved Remarks
<b>MINOR FOREST PRODUCE</b>						
Plantation of minor forest produce that includes raising of Mixed Plantation, medicinal plants, bamboo and broom grass and its maintenance.						
01.	Plantation of Minor Forest Produce including Medicinal Plants	1994 - 95	65.50		2050	68.50
02	Plantation of Minor Forest Produce including Medicinal Plants	1995 - 96	60.00		2200	77.00
03	Plantation of Minor Forest Produce including Medicinal Plants	1996 - 97	47.88		842	47.88
04	Plantation of Minor Forest Produce including Medicinal Plants	1997 - 98	32.50		2200	32.50
05	Plantation of Minor Forest Produce including Medicinal Plants	1998 - 99	92.30		2200	92.30

### **NATIONAL BAMBOO MISSION:**

Bamboo is known as poor man's timber. It is an important Non Timber Forest Produce. This important plant species of the graminiae family provides ecological, economic and livelihood security to the people. The bamboo has played an important substitute for timber with its short period of rotation. It has been widely used though out the world either in the form of timber, making decorative items, furniture, mats, fencing of compounds etc.

Under the National Bamboo Mission Programme, the State of Sikkim started its plantation in both the forest and private lands. The Department of Forest, Environment & Wildlife Management is executing the plantation of bamboo and raising bamboo seedlings in the nurseries through Joint Forest Management Committee from 2007. The plantation in private land is being executed by the Horticulture and Cash Crop Development Department, Government of Sikkim.

### **Work carried out under Bamboo Mission during 2008-09**

Sl.No.	Division	Target(ha)	Achievement(ha)	Survival%
1.	East	285	285	<b>80%</b>
2.	West	415	355	
3.	South	330	278.5	
4.	North	614.5	494.5	
<b>Total</b>		<b>1644.5</b>	<b>1413</b>	



**B. Achievement of Non-timber forest produce Division from 1999-2000 to 2004 – 2005**

Plantation of Minor Forest Produce including Medicinal Plants (Project – I) That includes raising of Mixed Plantation, bamboo, extension/JFM/Training.

Sl. No.	Name of Schemes	Year	Amount Received	Physical Target Achieved	Financial Target Achieved
01	Plantation of Minor Forest Produce including Medicinal Plants	1999 – 2000		2200	92.30
02	Plantation of Minor Forest Produce including Medicinal Plants	2000-01		685	41.64
03	Plantation of Minor Forest Produce including Medicinal Plants	2001-02		330	31.72
04	Maintenance of NTFP including medicinal plants old plantation (Project – I)	2002 - 03	10.76	1200	10.76
05	Maintenance of NTFP including medicinal plants old plantation (Project – I)	2003 - 04	4.78	6500	4.78
06	Maintenance of NTFP including medicinal plants old plantation (Project – I)	2004 - 05	1.91	300	1.91

PLANTATION OF REGENERATION OF PERENNIAL HERBS & SHRUBS (PROJECT – II) The activities include advance work for perennial herbs and shrubs, entry point activities, improved technology, over heads expenses.

Sl. No.	Name of Schemes	Year	Amount Received	Physical Target Achieved	Financial Target Achieved
01	Plantation of regeneration of perennial herbs & shrubs	1999 – 2000		2330	15.00
02	Plantation of regeneration of perennial herbs & shrubs	2000-01		1080	119.35
03	Plantation of regeneration of perennial herbs & shrubs	2001-02		2330	77.86
04	a) Maintenance of NTFP including medicinal plants old plantation (Project – II)	2002 - 03	18.24	1000	14.37
	b) Extension Awareness/JFM/Training				2.44
	c) Over Heads				1.43
	<b>Total: -</b>				<b>18.24</b>
05	a) Maintenance of NTFP including medicinal plants old plantation (Project – II)	2003 - 04	8.73	500	6.88
	b) Extension Awareness/JFM/Training				1.16
	c) Over Heads				0.69
	<b>Total: -</b>				<b>8.73</b>



**IMPLEMENTATION OF BAMBOO PLANTATION PROJECT (PROJECT –III)**

The activities include advance work for bamboo plantation (high & low altitude), entry point activities etc.

Sl. No.	Name of Schemes	Year	Amount Received	Physical Target Achieved	Financial Target Achieved
01	Implementation of Bamboo Plantation Project	1999 – 2000	15.00	600	15.00
02	Implementation of Bamboo Plantation Project	2000-01	48.45	2165	48.45
03	Implementation of Bamboo Plantation Project	2001-02		1300	32.47
04	a) Maintenance of NTFP including medicinal plants old plantation (Project – III)	2002 - 03	13.00	1300	10.25
	b) Entry Point Activity & Monitoring, Over Heads				2.75
	<b>Total: -</b>				<b>13.00</b>
05	a) Maintenance of NTFP including medicinal plants old plantation (Project – III)	2003 - 04	7.23	1300	7.23
	a) Maintenance of NTFP including medicinal plants old plantation (Project – III)	2004 - 05	3.07	500	3.07

**PLANTATION OF REGENERATION OF PERENNIAL MEDICINAL HERBS & SHRUBS (PROJECT – IV) (PILOT PROJECT)**

The activities include creation and advance work for perennial herbs and shrubs, monitoring & evaluation etc.

Sl. No.	Name of Schemes	Year	Amount Received	Physical Target Achieved	Financial Target Achieved
01	Plantation of regeneration of perennial herbs & shrubs	2000–01	16.80	2330	16.80
02	Plantation of regeneration of perennial herbs & shrubs	2001 – 02	25.48	220	25.48
03	a) Maintenance of NTFP including medicinal plants old plantation (Project – IV)	2002 - 03	5.08	200	5.08
04	a) Maintenance of NTFP including medicinal plants old plantation (Project – IV)	2003 - 04	2.23	200	2.23

**PLANTATION OF BAMBOO UNDER BAMBOO MISSION, NEC.**

Sl. No.	Name of Schemes	Year	Amount Received	Physical Target Achieved	Financial Target Achieved
01	Advance & creation of Bamboo plantation	2004 – 05	25.00	153	24.93
02	Maintenance of bamboo nurseries, Over Head expenditure etc.	2005 - 06	16.79	6Ha	16.79
03	a) Plantation through beneficiaries	2006 - 07	21.68	377	15.46
	b) Maintenance of Nursery				3.42
	c) Over Head				2.80
	<b>Total: -</b>			<b>377</b>	<b>21.68</b>
	<b>Grand Total: -</b>			<b>536</b>	<b>63.40</b>



### C. ACHIEVEMENT NTFP/STATE MEDICINAL PLANTS BOARD FROM 2002 – 03 TO 2009 – 2010

#### 1. Establishment of State Medicinal Plants Board (SMPB) during 2002-03: -

The State Medicinal Plants Board (SMPB) of Sikkim was set up under Forests, Env. & Wild-Life Management Department, Government of Sikkim by the State Government as a State Level Body vide Notification no. 100/FEWMD dated 10<sup>th</sup> June 2002 as per the guidelines issued by the National Medicinal Plants Boards, Department of AYUSH, Govt. of India.

#### Objectives of SMPB:

1. The formulation of policy for development of medicinal plants in the State.
2. Co-ordination with other departments organizations, relating to the matters of developments.
3. To promote sustained availability of Medicinal plants and its sustainable use.

#### 2. Promotional Scheme:

Established 13 Herbal Gardens in North, East, South & West Districts with financial assistance from NMPB from the year 2002-2003 to 2005-2006 create region-wise and species wise medicinal plants demonstration centre (Herbal gardens) and production of quality planting materials.

#### Locations of Herbal Gardens

<b>1. North District</b>			
<b>Sl no</b>	<b>Location</b>	<b>Phy</b>	<b>Financial Target achieved</b>
I	Dombang Valley	10 Ha.	20.00 lakhs
ii	Thangu RF	10 Ha.	25.00 lakhs
iii	Zema RF	<u>10 Ha.</u>	<u>25.00 lakhs</u>
		<b>30 Ha</b>	<b>70.00 lakhs</b>
<b>2. East District</b>			
<b>Sl no</b>	<b>Location</b>	<b>Phy</b>	<b>Financial Target achieved</b>
I	Rateychu RF	10 Ha.	21.00 lakhs
ii	Tamzey RF	10 Ha.	23.00 lakhs
iii	Kongnosla RF	<u>10 Ha.</u>	<u>20.00 lakhs</u>
		<b>30 Ha</b>	<b>72.00 lakhs</b>
<b>3. South District</b>			
<b>Sl no</b>	<b>Location</b>	<b>Phy</b>	<b>Financial Target achieved</b>
I	Samduptse RF	10 Ha.	20.00 lakhs
ii	Kitam RF	10 Ha.	20.00 lakhs
iii	State Biodiversity Park, Tendong	10 Ha.	20.00 lakhs
iv.	Maenam Wildlife Sanctuary	<u>10 Ha.</u>	<u>20.00 lakhs</u>
		<b>40 Ha</b>	<b>80.00 lakhs</b>
<b>4. West District</b>			
<b>Sl no</b>	<b>Location</b>	<b>Phy</b>	<b>Financial Target achieved</b>
I	Guransay/Nunthalay	10 Ha.	20.00 lakhs
ii	Barsey Rhododendron Sanctuary	10 Ha.	20.00 lakhs
iii	Yuksam/Khechiiperi RF	<u>10 Ha.</u>	<u>20.00 lakhs</u>
		<b>30 Ha</b>	<b>60.00 lakhs</b>
	<b>Total</b>	<b>130 Ha.</b>	<b>274.00 lakhs</b>



**3. Jari Buti Khosh:** The Jari Buti Khosh (Herbal Medicine Fund) was established under the State Medicinal Plants Board by State Government during the year 2004-05. The sum of rupees 50.00 lakhs was provided under this scheme for the production of quality planting materials and in order to create awareness among the stakeholders and public regarding the importance of medicinal plants available in the state. The activities carried out by SMPB are as follows:-

- I. **Maintenance of existing Herbal Nurseries:** -The SMPB in the year 2008-09 had maintained herbal nurseries located at Kyongnosla and Tamzey in East District, Samduptse Herbal Garden in the South District and Guransey Nunthaley in the West District. The total area covered was 4 Ha.
- II. **Small Grant Scheme to Traditional Herbal Healers:** - The State Medicinal Plants Board had identified about 27 Traditional Folk Healers from different villages with the help of Block Panchayats and Village elders. The small grant of Rs.5.00 lakhs provided under Jari Buti Khosh Scheme was distributed to them for development of their kitchen herbal gardens and infrastructures.
- III. Further, the State Medicinal Plants Board has also compiled and documented their traditional knowledge of herbal medicines being practiced by them. The publication of book the **Traditional Herbal Healers of Sikkim** was published by SMPB in 2009-10 to preserve their traditional knowledge.
- IV. The other activities carried out under Jari Buti Khosh were awareness, tissue culture, strengthening of raw drug museum & publication of important medicinal plants.

#### 4. Contractual Farming/Commercial Scheme:

Contractual Farming Projects implemented by Farmers in their Private holdings with 30% Financial Assistance from National Medicinal Plants Board (NMPB), Ministry of Health & Family Welfare, Department of AYUSH, Government of India, during the 10<sup>th</sup> & 11<sup>th</sup> Five Years Plans period.

Sl. No.	Year	No. of Farmers Projects	Physical Target achieved in acres	30% Financial Assistance Released in Lakhs	
				1 <sup>st</sup> instalment	2 <sup>nd</sup> instalment
1	2003-04	02	20	01.00	00.65
2	2004-05	19	188	20.75	12.91
3	2005-06	04	45	04.63	01.35
4	2006-07	59	585.83	57.82	00.82
5	2007-2008	38	259	20.887	00.00
	<b>Total</b>	<b>122</b>	<b>1097.83 Acres</b>	<b>105.087</b>	<b>15.73</b>



Distribution of financial assistance to contractual farmers during janta mela 2008 by the Hon'ble Chief Minister Shri Pawan Chamling



### 5. BADP scheme:

Boarder Area Development Programme implemented by NTFP/SMPB Division from 2004-2005 to 2008-2009 with physical and financial target achieved under this programme are as under:

Name of Scheme	Extension & Improvement of Kyongnosla Herbal Garden.
Financial outlay of the project received.	- Rs.40.73 lakhs
Total fund utilized	- Rs.40.73 lakhs
Project Period	- 2004-05 to 2008-09.

#### 01. Assets Created: -

- (a) Extension Improvement & maintenance of 1 Ha. Herbal Garden Nursery at Kyongnosla from 2004-05 to 2008-09 - 1 Ha.
- (b) Constructed 2 (two) Nos of Germination Chambers at Herbal Garden Nursery Kyongnosla during 2005-06. - 2 Nos.
- (c) Constructed dry wall fencing around Kyongnosla Herbal Garden. - 1 Km.
- (d) Extension of Kyongnosla Herbal Garden (Ex-situ conservation of medicinal herbs at High Altitude from 2005-06 to 2008-09 including maintenance. - 52 Ha.





**6. Creation of nurseries for raising Tree Species having medicinal value under promotion scheme funded by NMPB in East, North, south & West Districts from 2007-8 to 2010-11: -**

<b>A. East District</b>	
<b>1 Project No. &amp; Title</b>	Pr.GO/Sk-01/2007-08-NMPB Creation of nursery for raising of medicinal plants of tree species having high medicinal value in East District
<b>2 Location and physical target:</b>	i. Rorathang Nursery                      1.4 ha. ii. Singtam Nursery <u>0.6 ha</u> <b>2.0 ha</b>
<b>3 Financial outlay approved</b>	20.00 lakhs
<b>4 Fund released</b>	1 <sup>st</sup> installment 2007-2008            10.00 lakhs 2 <sup>nd</sup> installment 2008-2009 <u>5.00 lakhs</u> <b>Total: 15.00 lakhs</b>
<b>5 Project Period</b>	2007-2008 to 2010-2011.
<b>6 Achievement:</b>	
A . Financial target achieved upto 31st March 2010	-                      Rs. 15.00 Lakhs
B . Physical target achieved -	-                      2.00 ha
<b>C. Activities:</b>	Numbers of tree species seedlings raised from 2007-2008-2010-2011

**Singtam Medicinal Plants Tree Species Nursery**



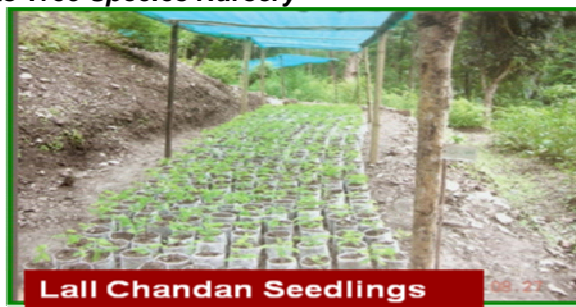


<b>B. West District</b>	
<b>1 Project No. &amp; Title</b>	Pr.GO/Sk-02/2007-08-NMPB Creation of nursery for raising of medicinal plants of tree species having high medicinal value in West district
<b>2 Location and physical target:</b>	i. Sipsu Nursery 1.4 ha. ii. Raniban Nursery <u>0.6 ha.</u> <b>2.0 ha</b>
<b>3 Financial outlay approved</b>	20.00 lakhs
<b>4 Fund released</b>	1 <sup>st</sup> installment 2007-2008 10.00 lakhs 2 <sup>nd</sup> installment 2008-2009 4.34 lakhs 3 <sup>rd</sup> installment 2009-2010 <u>5.00 lakhs</u> <b>Total: 19.34 lakhs</b>
<b>5 Project Period</b>	2007-2008 to 2010-2011
<b>6 Achievement:</b>	A Financial target achieved upto 31st August 2010 - Rs. 17.64 Lakhs B . Physical target achieved - 2.00 ha. <b>C Activities</b> Numbers of tree species seedlings raised from 2007-2008-2010-2011

**Sipsu Medicinal Plants Tree Species Nursery**



**Totala seedlings**



**Lall Chandan Seedlings**



**Amla Seedlings**



**Barra seedlings**





<b>C. North District</b>			
<b>1 Project No. &amp; Title</b>	Pr.GO/Sk-03/2007-08-NMPB Creation of nursery for raising of medicinal plants of tree species having high medicinal value in North District		
<b>2 Location and physical target:</b>	Community Nurseries in Private holding at Tingda Block, North District – 2 Ha		
<b>3 Financial outlay approved</b>	20. lakhs		
<b>4 Fund released</b>	1 <sup>st</sup> Installment	2007-2008	10.00 lakhs
	2 <sup>nd</sup> Installment	2008-2009	4.50lakhs
	3 <sup>rd</sup> Installment	2009-2010	<u>5.00 lakhs</u>
	<b>Total</b>		<b>19.50 Lakhs</b>
<b>5 Project Period</b>	2007-2008 to 2010-2011.		
<b>6 Achievement:</b>			
A . Financial target achieved upto 31st March 2010	-		Rs.17.29 Lakhs
B. Physical target achieved	-		2.00 ha.
<b>C. Activities:</b>	Numbers of tree species seedlings raised from 2007-2008-2010-2011		

***Tingda Medicinal Plants Tree Species Nursery***



**Achuk seedlings propagated through cuttings**



**Harra Seedlings**



**Barra Seedlings**



<b>D. South District</b>	
<b>1 Project No. &amp; Title</b>	Pr.GO/Sk-04/2007-08-NMPB Creation of nursery for raising of medicinal plants of tree species having high medicinal value in South District
<b>2 Location and physical target:</b>	Tingling Ramyang Nursery - 2 ha.
<b>3 Financial outlay approved</b>	Rs. 20.00lakhs
<b>4 Fund released</b>	1 <sup>st</sup> installment 2007-2008 10.00 lakhs 2 <sup>nd</sup> installment 2008-2009 5.00 lakhs 3 <sup>rd</sup> installment 2009-2010 5.00 lakhs <b>Total 20.00 lakhs</b>
<b>5 Project Period</b>	2007-2008 to 2010-2011
<b>6 Achievement:</b>	
A Financial target achieved upto 31st August 2010	- 16.76Lakhs
B . Physical target achieved	- 2.00 ha.
C. <b>Activities</b> -Tree species Seedlings raised in Tingling Ramyang Nursery from 2008-2009 to 2010-2011.	

***Tingling/Ramyang Medicinal Plants Tree Species Nursery***



Lall Chandan



Harra



Amala



**7. ACHIEVEMENT UNDER TRIBAL SUB PLAN & SCHEDULE CASTE SUB PLAN IMPLEMENTED BY THE BENEFICIARIES IN THEIR PRIVATE HOLDINGS DURING 2007 – 2008.**

The Department of Social Justice Empowerment and Welfare Department, Government of Sikkim had approved the project proposal of Broom grass and Bamboo plantation works submitted by the Forest, Env. & Wildlife Management Department, Government of Sikkim under TSP & SCSP Sub-Plan to be carried out by the beneficiaries in their holdings during the year 2007 – 2008. The details achievement of works carried out by the beneficiaries are as under: -

**A. Under TSP.**

**(I) Total Beneficiaries benefited = 1034 Nos.**

**(II) Physical Target Achieved**

**a) Broom Grass & Bamboo Plantation in Private Holdings**

=  
205.0 Ha.

**III) Financial Target Achieved = 22.83 lakhs.**

**B. Under SCSP.**

**(I) Total Beneficiaries benefited = 151 Nos.**

**(II) Physical Target Achieved**

**a) Broom Grass Plantation in Private Holdings = 30.0 Ha.**

**III) Financial Target Achieved = 2.91 lakhs.**

**8. ACHIEVEMENT UNDER TRIBAL SUB PLAN & SCHEDULE CASTE SUB PLAN IMPLEMENTED BY THE BENEFICIARIES IN THEIR PRIVATE HOLDINGS DURING 2008 – 2009.**

The Forest, Env. & Wildlife Management Department, Government of Sikkim, had implemented project proposal of Broom grass, Fodder & Medicinal plantation works including the maintenance of Forest nurseries under TSP & SCSP Scheme to be carried out by the beneficiaries in their holdings during the year 2008 – 2009 through the Department of Social Justice Empowerment and Welfare Department, Government of Sikkim. The details of Physical & Financial Target achieved by the beneficiaries are as under: -

**a. Under TSP.**

**(I) Total Beneficiaries benefited = 3629 Nos.**

**(II) Physical Target Achieved**

**a) Broom Grass & Bamboo Plantation in Private Holdings**

= 335.125 Ha.

**b) Nurseries (North District) = 1 Ha.**

**III) Financial Target Achieved = 60.00 lakhs.**

**b. Under SCSP.**

**(I) Total Beneficiaries benefited = 2392 Nos.**

**(II) Physical Target Achieved**

**a) Broom Grass Plantation in Private Holdings = 299.09 Ha.**

**III) Financial Target Achieved = 41.06lakhs.**



**9. ACHIEVEMENT UNDER TRIBAL SUB-PLAN AND SCHEDULED CASTE SUB-PLAN IMPLEMENTED BY THE BENEFICIARIES IN THEIR PRIVATE HOLDINGS DURING 2009 – 2010.**

The Forest, Evn. & Wildlife Management Department, Government of Sikkim, had implemented project proposal of Winter Plantation of wild fruit bearing tree species, soil conservation and maintenance of the forest nurseries for raising of seedling under TSP & SCSP Scheme to be carried out by the beneficiaries in their holdings during the year 2008 – 2009 through the Department of Social Justice Empowerment and Welfare Department, Government of Sikkim. The details of Physical & Financial Target achieved by the beneficiaries are as under: -

<b>a. Under TSP.</b>		
(I) Total Beneficiaries benefited	=	337 Nos.
(II) Physical Target Achieved		
a) Plantation	=	129.0 Ha.
b) Soil & Moisture Conservation	=	49.5 Ha.
c) Nurseries (North & East District)	=	2 Ha.
III) Financial Target Achieved	=	50.85 lakhs.
<b>b. Under SCSP.</b>		
(I) Total Beneficiaries benefited	=	320 Nos.
(II) Physical Target Achieved		
a) Plantation	=	60.0 Ha.
b) Soil & Moisture Conservation	=	15 Ha.
c) Nurseries (South District)	=	1 Ha.
III) Financial Target Achieved	=	21.67 lakhs.

**Wildfruit trees seedlings(Okhar) raised at Pangthang Nursery during 2009-2010 under TSP scheme**





**10. Conservation and propagation of selected Rare, Endangered and threatened Species of Medicinal Plant under Central Sector Scheme funded by NMPB from 2008-09 TO 2011-12.**

<b>a. Title of the Project:</b>	Ex-situ conservation of selected Rare, Endangered and Threatened Species of Medicinal Plants mostly trees and perennial herbs in the Forest Areas.
<b>b. Project No:</b>	Pr.GO/SK/-01/2009
<b>c. Project Period</b>	4 (Four years) 2008-2009 to 2011-2012.
<b>d. Financial outlay approved</b>	507.00 lakhs
<b>e. 1<sup>st</sup> Installment released</b>	2008-2009 - 300.00 lakhs
<b>f. Achievement:</b>	
i. Physical target Achieved up to 31 <sup>st</sup> March 2010	- 629 ha.
ii. Financial target Achieved upto 31st May 2010	- 212.91 Lakhs

**Propagation of RET Species of medicinal plants in the Forest areas during 2008 – 09 & 2009 – 10**



*Aconitum heterophyllum*



*Aconitum heterophyllum*



*Rubia cordiflora*



*Acorus calamus*



laborers employed in nurseries



laborers employed in nurseries



Chiraita Plantation.



Hedychium Plantation



Chiraita seedlings raised in the nurseries



Chiraita seedlings raised in the nurseries



## 11. FUTURE MISSION OF NON-TMBER FOREST PRODUCE/STATE MEDICINAL PLANTS BOARD

### A STATE MEDICINAL PLANTS BOARD (SMPB)

1. **Action Plan of SMPB:** – In reference to Guidelines issued by the National Medicinal Plants Board (NMPB), Department of AYUSH, Ministry of Health & Family Welfare Department, Government of India, the Action Plan of State Medicinal Plants Board (NMPB) has been prepared for Conservation, Development and Sustainable Management of Medicinal Plants and its infrastructures development in the State for the period of ten years i.e. upto 2020.

As per the prescription of Action Plan of SMPB the following activities have been incorporated for development of medicinal plants sector in the state.

- a. Setting up Medicinal Plants Conservation Areas (MPCAs) of medicinal plants resources available in the State across various Forest-types for an effective MPCA network across the country to insure that the gene pool of threatened medicinal plant species are inventoried, documented and conserved in their natural habitat. About 12000 hectares have been proposed for development of MPCAS for the period of 10 years.
  - b. Ex-situ Conservation or Resource augmentation of Rare, Endangered, Threatened (RET) and prioritized medicinal plant species having high demand. About 6500 hectares of forest areas from Tropical to Alpine zone have been proposed under this programme for the period of ten years.
  - c. Support to Joint Forest Management committees (JFMCs)/ Panchayats and Medicinal Plants Grower's Associations for development of value addition, warehousing and marketing.
  - d. Research, Development, Quality Production of Medicinal Plants and Certification.
  - e. Education and Capacity Building of the users and stakeholders.
  - f. To create awareness about the traditional usage of medicinal plants among school children, rural and urban households and public at large. This linkage is developed by laying out home herbal gardens, herbal gardens in schools, colleges, universities, institutional buildings, Panchayats and public about the usage of medicinal plants based on the indigenous knowledge.
2. **Registration Mechanism of Medicinal Plants Cultivators:** - After inception of State Medicinal Plants Board under Forests, Env. & wildlife Management Department, Government of Sikkim, the mechanism for registration of all stakeholders like farmers, NGOs etc who are interested in cultivation of medicinal plants in their private holdings including collection and trading of the raw materials produced by them was being started under State Medicinal Plants Board in order to regulate and develop the medicinal sector in the State. About 699 farmers and NGOs have been registered under State Medicinal Plants Board as cultivators, collectors and traders. The State Medicinal Plants Board will continue this mechanism to encourage the farmers for cultivation of medicinal plants in order to strengthen the legalized market system of medicinal plants on sustainable basis.



**3. Development of Marketing Linkage of Medicinal Plant Products:-**

- a. The marketing demands of medicinal plant products have been increased as compared to before as numbers of traders from outside the State are approaching the State Medicinal Plants Board for their demand.
- b. The State Medicinal Plants Board has initiated the development of marketing linkage with Dabour Company of India during the 2008-09 and company has accepted the raw material of *Swertia chirayata* and *Jatamansi* from Sikkim.
- c. The State Medicinal Plants Board is also coordinating with SIMFED who have signed a Memorandum of Understanding (MOU) with M/S Himalaya Drug Company, Bangalore, for procuring of medicinal plants raw materials through SIMFED.
- d. To increase the further demands of medicinal plants products from the state, the State Medicinal Plants Board will participating in the International and National Exhibitions organized by different Organizations in the country in near future.

**4. Inventory of Medicinal Plants Resources in the State:** -The State Medicinal Plants Board has submitted the project proposal to NMPB for Inventory of Medicinal Plants resources available in the State incorporation with FRLHT, Bangalore. In addition to this SMPB will also carry out the medicinal plants resources available in different GPUs and maintain the BIO-DIVERSITY REGISTER for each GPU for protection and conservation of medicinal plants resources.

**5. Revitalization of Traditional Knowledge of Herbal Medicine:** - In order to revitalize the traditional knowledge of herbal healing and to preserve this indigenous knowledge of medicinal plants, SMPB will carry out the details identification of renowned herbal healers throughout Sikkim, documentation of their knowledge and provide some financial assistance for development of their home herbal gardens and infrastructures.

**6. National Campaign on Amla:** - The State Medicinal Plants Board (SMPB) will carry out conservation and propagation of Amla under National Campaign on Amla in Schools, colleges, Government Institutions and in Forest lands in low belt areas by involving different stakeholders like NGOs, School children and others. The scheme will be implemented from 2011-12 onwards for the period of three years and about 3,00,000 Amla seedlings will be distributed during this period.

**7 SEABUCKTHORN NATIONAL MISSION:** - The Government of India has recognized the potential of Seabuckthorn in combating global warming, Environment conservation of high altitude areas of Indian Himalayan region, for health care & poverty alleviation and declared **National Seabuckthorn Initiative under the Green India Mission** in two phases i.e. 1<sup>st</sup> Phase upto 2012 and 2<sup>nd</sup> or Mission Phase from 2013 to 2020.

- Under 1<sup>st</sup> Phase: - NTFP Division has proposed the afforestation of Seabuckthorn covering about 700 Ha. In high altitude areas with the financial outlay of Rs.300 lakhs.
- During the mission phase i.e. from 2013 to 2020 more 10,000 Ha. of Forest lands are projected to cover under Seabuckthorn National Mission by 2020 under Green India Mission.