



# MEDICINAL PLANTS

## COMPONENT



**NATIONAL MEDICINAL PLANTS BOARD**

Ministry of AYUSH, Government of India

## National AYUSH Mission

### Medicinal Plants Component

Medicinal and aromatic plants (MAPs) play a significant role in meeting the demands of the traditional medicine markets which is related to traditional, Indian Ayurveda medicine and to various forms of indigenous medicine, as well as the complementary or alternative medicine utilized in achieving growing credibility.

As a result of the expanding interest in medicinal and aromatic plants, new income-generating opportunities are opening up for rural populations. With many of the MAPs gathered from the wild, the collection and sale of MAPs is providing a complementary source of cash for many extremely poor rural households.

Keeping in view the importance of MAPs National Medicinal Plants Board (NMPB) was set up on 24th November, 2000 through a Government Resolution under the Ministry of Health and Family Welfare for coordination of all matters relating to Medicinal Plants. Now, with the establishment of Ministry of AYUSH during 2014, NMPB is working under this Ministry to promote cultivation of Medicinal Plants. NMPB is working on Medicinal Plants under National AYUSH Mission (NAM) launched by Ministry of AYUSH, Government of India during 12th plan period.

The Medicinal Plants Component of NAM programme is being implemented to adopt an end to end approach covering production, Post-Harvest Management, Processing and Marketing. Cultivation of Medicinal Plants is promoted in identified clusters within selected districts of States having potential for cultivation following Good Agriculture Practices through synergistic backward linkage with supply of Quality Planting Material and forward linkage of Post-Harvest Management like collection, storage, processing, packaging and marketing for meeting the demands of AYUSH Industry.

## Implementation Procedure:

The National Medicinal Plants Board, Ministry of AYUSH is implementing the Medicinal Plants Component under NAM in all the States/ UTs through State Government designated agencies like State Directorate of Horticulture/ Agriculture or State Medicinal Plants Board termed as "State Mission". The cultivators/ farmers/ cluster of farmers interested to cultivate Medicinal Plants and selling of its produce from different districts of the State may avail financial assistance of NMPB, Ministry of AYUSH for the following component\*:

- Support to development of Nursery – Model (4 ha.) and Small (1 ha.).
- For the cultivation of Medicinal Plants subsidy @ 75%, 50% & 30% of cost of cultivation.
- Support for setting up of seeds/ germplasm centre, organic / GAP certification.
- Post-Harvest Management: Collection centre, drying sheds and storage godown.
- Processing and value addition: Processing unit, marketing infrastructure.

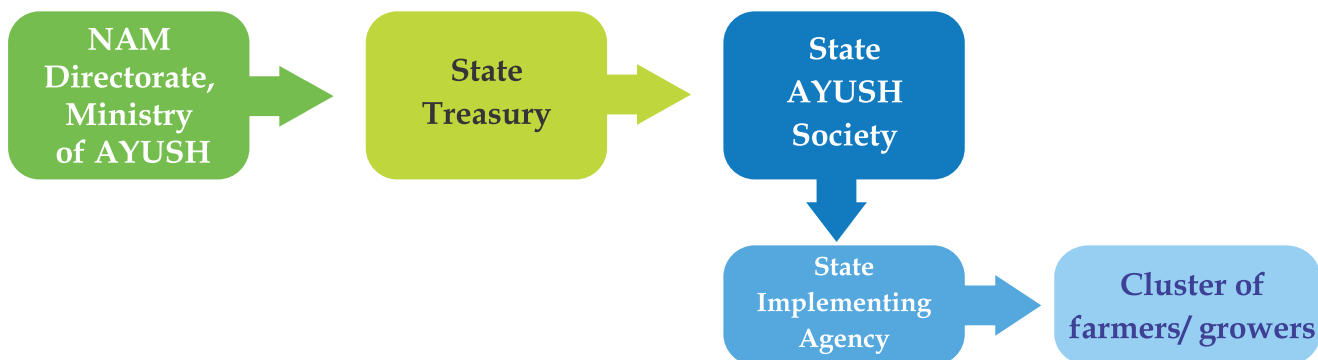
**\*Note: Norms of assistance for above mentioned components are placed at (Table -III) & (Table-IV)**

NMPB has prioritised 140 Medicinal Plants species suitable for different agro-climatic regions however, cost norms of 95 species (Table-I) has been worked out. (Table-II) indicates the details of implementing agencies operational in different states.

For all the above component towards implementation farmers / cultivators are required to inform the State Mission / State Implementing Agencies in respect of their activities to be taken up. The State implementing agencies is supposed to prepare an Annual Action Plan of the State considering those districts in respect of activities to be taken up of the concerned year and submit the same through State AYUSH Society to NAM Directorate, Ministry of AYUSH, Government of India.



**Fund flow mechanism would be as follows:**



The State Implementing agency will assure the implementation of the approved programme through farmers / cultivators of different districts by sending progress report in each quarter of the annum. NMPB will monitor the programme through officers / inspection team in different intervals.

**Table - I : List of 95 Prioritized Medicinal Plants Species**

<b>PLANTS ELIGIBLE FOR 30% SUBSIDY</b>			
<b>Sl. No.</b>	<b>Botanical Name</b>	<b>Common Name</b>	<b>Cost of Cultivation for 2016-17 (Rs. per Ha.)</b>
1	<i>Abrus precatorius</i> Linn.	Chirmati, Chinnoti, Gudumani	26880.15
2	<i>Acorus calamus</i> Linn.	Vach	36602.5
3	<i>Adhatoda zeylanica</i> Linn.	Adusa	10424.15
4	<i>Aloe vera</i> (Linn.) Burn.	Ghritkumari	24889.7
5	<i>Alpinia calcarata</i> Roxb.	Smaller Galangal	33146.74
6	<i>Alpinia galangal</i> (Linn.) Willd.	Greater Galanga	28589.88
7	<i>Andrographis paniculata</i> (Linn.) Burn	Kalmegh	14641
8	<i>Artemisia annua</i> Linn.	Artemisia	19496.73
9	<i>Asparagus racemosus</i> Willd.	Shatavari	36602.5
10	<i>Azadirachta indica</i> A. Juss	Neem	21961.5
11	<i>Bacopa monnieri</i> (L.) Pennell	Brahmi	23425.6
12	<i>Bergenia ciliata</i> Stern.	Pashnabheda	40073.99
13	<i>Boerhaavia diffusa</i> Linn.	Punarnava	17569.2
14	<i>Cassia angustifolia</i> Vahl.	Senna	14641
15	<i>Caesalpinia sappan</i> Linn.	Patang	31360.78
16	<i>Catharanthus roseus</i> (Linn.) G. Don	Sadabahar	14641
17	<i>Celastrus paniculatus</i> Willd.	Malkangani, Jyothismathi, Bavanthi	13000.24
		Beeja	
18	<i>Centella asiatica</i> (Linn.) Urban	Mandookparni,	23425.6
19	<i>Chlorophytum borivillianum</i> Sant.	Shwet Musali	183012.5
20	(a) <i>Cinnamomum verum</i> Presl	Dalchini,	45387.1
	(b) <i>Cinnamomum tamala</i>	Tejpat,	26018.63
	(Buch.- Ham.) Nees et Eberm.		
	(c) <i>Cinnamomum camphora</i>	Kapoor	
	(Linn.) J.Presl.		
21	<i>Clerodendrum phlomoidis</i> Linn.f	Arni	18827.6
22	<i>Clitoria ternatea</i> Linn. (Blue & White variety)	Aparajita	18827.6

23	<i>Coleus barbatus</i> Benth.	Pather Chur	25182.52
24	<i>Convolvulus microphyllus</i> Sieb. ex Spreng	Shankhpushi	19496.73
25	<i>Cryptolepis buchanani</i> Roem & schult	Krsnasariva	24923.58
26	<i>Dioscorea bulbifera</i> Linn.	Rotalu, Gethi	36602.5
27	<i>Eclipta alba</i> Hassk.	Kesuria, Bhangru, Bhangra, Kesuti, Ajagara, Bringaraj, Kesar raja, Sumilaka, Suparna, Weed yam	14113.44
28	<i>Embelia ribes</i> Burm. f.	Vai Vidang	24889.7
29	<i>Emblica officinalis</i> Gaertn.	Amla	38066.6
30	<i>Garcinia indica</i> Choisy	Kokum	36602.5
31	<i>Gymnema sylvestre</i> R. Br.	Gudmar	14641
32	<i>Hedychium spicatum</i> Buch-Ham.ex Smuth	Kapur kachari	23425.6
33	<i>Hemidesmus indicus</i> R.Br.	Anantmool, Indian Sarsaparilla	20497.4
34	<i>Holarrhena antidysenterica</i> Wall.	Kurchi/Kutaj	10775.05
35	<i>Ipomoea turpethum</i> R. Br.	Trivrit	15606.58
36	<i>Kaempferia galanga</i> Linn.	Indian crocus	26704.7
37	<i>Lepidum sativum</i> Linn.	Chandrasur	14406.26
38	<i>Mucuna prurita</i> Linn.	Konch	11712.8
39	<i>Ocimum sanctum</i> Linn.	Tulsi	17569.2
40	<i>Phyllanthusamarus</i> Schum & Thonn.	Bhumiamlaki	16105.1
41	<i>Piper longum</i> Linn.	Pippali	36602.5
42	<i>Plantago ovata</i> Forssk.	Isabgol	14113.44
43	<i>Psoralea corylifolia</i> Linn.	Bakuchi	8784.6
44	<i>Rubia cordifolia</i> Linn.	Manjishtha	58564
45	<i>Sida cordifolia</i> Linn.	Flannel weed	14055.36
46	<i>Solanum anguivi</i> Lam.	Katheli-badhi	1422.96
47	<i>Solanum nigrum</i> Linn.	Makoy	14641
48	<i>Stevia rebaudiana</i> (Bert.) Bertoni	Madhukari	183012.5
49	<i>Tephrosia purpurea</i> Pers	Pawad, Dhamasia, Kalika, Plihari, Sharapunkha, Purple Tephrosia, Wild Indigo, Empali	14523.63
50	<i>Terminalia arjuna</i> (Roxb.) Wt. & Arn.	Arjuna	26353.8
51	<i>Terminalia bellirica</i> Gaertn.	Behera	23425.6
52	<i>Terminalia chebula</i> Retz.	Harad	23425.6
53	<i>Tinospora cordifolia</i> Miers	Giloe	16105.1
54	<i>Vitex nigundo</i> Linn.	Nirgundi	14641
55	<i>Withaniasomnifera</i> ( Linn.) Dunal	Ashwagandha	14641



### PLANTS ELIGIBLE FOR 50% SUBSIDY

56	<i>Acacia catechu</i> Willd.	Katha	10424.15
57	<i>Aegle marmelos</i> (Linn) Corr.	Beal	23425.6
58	<i>Albizzia lebeck</i> Benth.	Shirish	21961.5
59	<i>Alstonia scholaris</i> R.Br.	Satvin, Saptaparna	19530.61
60	<i>Atropa belledona</i> Linn.	Atropa	36602.5
61	<i>Crataeva nurvala</i> Buch – Ham.	Varun	10424.15
62	<i>Desmodium gangeticum</i> (Linn.) DC.	Sarivan	26353.8
63	<i>Gloriosa superba</i> Linn.	Kalihari	80525.5
64	<i>Glycyrrhiza glabra</i> Linn.	Licorice Roots, Mulethi	58564
65	<i>Gmelina arborea</i> Linn.	Gambhari	26353.8
66	<i>Hippophae rhamnoides</i> Linn.	Seabuckthorn	29282
67	<i>Inula racemosa</i> Hk. f.	Pushkarmool	22136.95
68	<i>Leptadenia reticulata</i> (Retz) Wt. & Arn.	Jivanti	36602.5
69	<i>Mesua ferrea</i> Linn.	Nagakeshar	10424.15
70	<i>Plumbago zeylanica</i> Linn.	Chitrak	17569.2
71	<i>Pueraria tuberosa</i> DC.	Vidarikand	29282
72	<i>Premna integrifolia</i> Linn.	Agnimanth	14641
73	<i>Pterocarpus marsupium</i> Roxb.	Beejasar	32210.2
74	<i>Rauwolfia serpentina</i> Benth. ex Kurz	Sarpgandha	36602.5
75	<i>Rheum emodi</i> Wall	Archa	118592.1
76	<i>Saraca asoca</i> (Roxb.) De Wilde	Ashok	36602.5
77	<i>Smilax china</i> Linn.	Hrddhatri (Madhu snuhi), Chob	29282
		Chini Lokhandi	
78	<i>Stereospermum suaveolens</i> DC.	Patala	10775.05
79	<i>Tacomella undulata</i> (Sm.) Seem.	Rohitak	10424.15
80	<i>Urarea picta</i> (Jacq.) Desv.	Prishnaparni	24304.06
81	<i>Valeriana wallichii</i> DC.	Indian Valerian	35138.4
82	<i>Zanthoxylum alatum</i> Roxb.	Timoor	17569.2

### PLANTS ELIGIBLE FOR 75% SUBSIDY

83	<i>Aconitum ferox</i> Wall. / <i>Aconitum balfourii</i> Stapf.	Vatsnabh	47101.67
84	<i>Aconitum heterophyllum</i> Wall. ex Royle	Atees	64420.4
85	<i>Aquilaria agallocha</i> Roxb.	Agar	19530.61
86	<i>Berberis aristata</i> DC.	Daruhaldi	36602.5
87	<i>Commiphora wightii</i> (Arn.) Bhandari	Guggal	93702.4

88	<i>Nardostachys jatamansi</i> DC.	Jatamansi	118592.1
89	<i>Oroxylum indicum</i> Vent.	Syonaka	26353.8
90	<i>Picrorhiza kurroa</i> Benth. ex Royle	Kutki	65884.5
91	<i>Podophyllum hexandrum</i>	Bankakri, Indian podophyllum	58564
92	<i>Pterocarpus santalinus</i> Linn. f.	Raktachandan, Red sanders	33088.66
93	<i>Santalum album</i> Linn.	Chandan	28519.7
94	<i>Saussurea costus</i> C.B. Clarke	Kuth, Kustha	51243.5
95	<i>Swertia hirata</i> Buch-Ham	Chirata, Charayatah	48315.3

\* *There will be 10% increase in Base cost norm in subsequent years*

**Table - II :**

<b>LIST OF STATE IMPLEMENTING AGENCIES</b>			
<b>Sl. No.</b>	<b>Name of the State</b>	<b>Implementing Agencies/ Nodal Officers</b>	<b>Telephone No.</b>
1	Andhra Pradesh	A.P. Medicinal & Aromatic Plants , Shivaji Nagar, Secunderabad- 500 003,	040- 27717883, 27714849,
2	Arunachal Pradesh	Director of Horticulture & Mission Director, State Mission on Medicinal Plants, Itanagar, Chimpu-791 111	0360- 2203220, 2203253
3	Assam	Director of Horticulture F. P. & Mission Director, State Mission on Medicinal Plants Assam, Khanapara, Guwahati-22	0361-2335303
4	Bihar	Director of Horticulture cum Mission Director, State Horticulture Mission Patna - 800001.	0612- 2521776
5	Chhattisgarh	Chief Executive Officer & Mission Director, Chhatisgarh State Medicinal Plants Board Raipur - 492001 (Chhattisgarh)	0771-2522056
6	Goa *	CEO, State Medicinal Plants Board Goa- 403002	0832-2465443, 2465840
7	Gujarat	Chief Executive Officer Gujarat Medicinal Plant Board Block-19, Third floor, Gandhinagar, Gujarat	079-23255816, 23255813/14/17
8	Haryana	Director General of Horticulture cum Mission Director, State Mission on Medicinal Plants Udhyan Bhawan, Panchkula, Haryana	0172 - 2582322, 2582589
9	Himachal Pradesh	Director of Ayurveda- cum-Member Secretary, State Medicinal Plants Board Directorate of Ayurveda, Shimla - 09	0177-2622262, 2623066

10	Jammu & Kashmir	Director of Horti. & Mission Director, State Mission on Medicinal Plants, Government of Jammu and Kashmir, Srinagar Region, Rajbagh, Srinagar Tel: Director of Horti, Jammu	0194 - 2311484,  0191- 2501219
11	Jharkhand	Mission Director, State Mission on Medicinal Plants, Ranchi - 834002 (Jharkhand)	0651 - 2902201
12	Karnataka	Director of Horticulture, Biocenter, Hulimavu, Bangalore - 560 076,	080- 26582784, 26571925
13	Kerala	Mission Director, State Mission on Medicinal Plants Thiruvananthapuram- 695034(Kerala)	0471 - 2330856, 2330867
14	Madhya Pradesh	Director of Horticulture & Mission Director, State Mission on Medicinal Plants Bhopal - 462 004	0755 - 2578491, 2576960
15	Maharashtra	Maharashtra State Horticulture & Medicinal Plants Board, Sakhar Sankul, Shivaji Nagar, Pune - 411 005	020-25530755, 25535441, 25513228, 25534860
16	Manipur	Director of Horticulture & Soil Conservation, State Mission on Medicinal Plant Imphal - 795001	0385-2451089
17	Meghalaya	Chief Executive Director, State Mission on Medicinal Plants, Shillong- 793001	0364: 2505080
18	Mizoram	Chief Exective Officer, State Medicinal Plants Board, Aizwal - 796001	0389-2311637
19	Nagaland	Mission Director, State Mission on Medicinal Plants, Nagaland Bio-Resource Mission Kohima	0370-2270184
20	Orissa	Director of Horticulture & Mission Director, State Mission on Medicinal Plants, Directorate of Horticulture Bhubaneswar - 751 015	0674 - 2551831
21	Punjab	Addl. PCCF, Member Secretary, Punjab State Medicinal Plants Board Mohali, Chandigarh	0172 - 2298010
22	Rajasthan	Member Secretary Rajasthan State Medicinal Plants Board AYUSH Bhawan, Jaipur - 302033	0141-2796975, 2796845
23	Sikkim	Director of Horticulture, State Mission on Medicinal Plants, Gangtok - 737102	03592-231960
24	Tamil Nadu	Managing Director, Tamil Nadu Horticulture Development Agency, TANHODA Chennai-600005	044- 28524643, 28521645, 28544323
25	Telangana	Mission Director & Chief Executive Officer, Telangana Medicinal Plants Board, Hyderabad - 500 001	040: 66364094, 40047795



26	Tripura *	Mission Director & CEO, Tripura State Medicinal Plants Board Agartala, Tripura West	0381 2397325
27	Uttrakhand	Mission Director, State Mission on Medicinal Plants, Herbal Research & Development Institute (HRDI) Mandal-Gopeshwar, Distt-Chamoli Uttarakhand, 246401	01372-254210
28	Uttar Pradesh	Director of Horticulture & Mission Director, Lucknow - 22600	0522-4044414, 2623277
29	West Bengal	Director, West Bengal State Medicinal Plants Board, Kolkata - 700 006	033-23607014
30	Andaman Nicobar Islands *	Director (Agriculture & Horticulture), UT of Andaman and Nicobar Islands, Port Blair	03192- 233257
31	Lakshadweep *	Director (Agriculture), UT of Lakshadweep, Kavaratti-682555 Lakshadweep	04896 - 262483/262018/ 262246, 262952
32	New Delhi *	Office of the Joint Director (Agriculture) Government of NCT of Delhi, New Delhi - 110 002	011-23713399
33	Pondicherry *	Director, Indian System of Medicine, Puducherry-605 001	0413 -2336945
34	Dadra & Nagar Haveli*	Director of Agriculture, UT of Diu and Dadra and Nagar Haveli, Daman	02639- 254856

**Table - III :**

<b>Norms of Assistance of Nursery and Cultivation</b>			
<b>Sl. No.</b>	<b>Programme</b>	<b>Estimated Cost</b>	<b>Admissible Assistance</b>
1.	<b>NURSERY</b>		
	Production of planting material		
	<b>a) Public sector</b>		
	i) Model nursery (4 ha.)	Rs. 25 lakhs	Maximum of Rs. 25.00 lakhs
	ii) Small Nursery (1 ha.)	Rs. 6.25 lakhs	Maximum of Rs.6.25 lakhs
	<b>b) Private Sector (initially on Pilot basis)</b>		
	i) Model nursery (4 ha.)	Rs. 25 lakhs	50% of the cost limited to Rs. 12.50 lakhs
	ii) Nursery (1 ha.)	Rs. 6.25 lakhs	50% of the cost limited to Rs. 3.125 lakhs
2.	<b>CULTIVATION</b>		
	i) Species that are highly endangered and in high demand by AYUSH industry	-	75% of the cost of cultivation

ii) Species that are endangered and sources of supply are declining	-	50% of the cost of cultivation
iii) Other species in demand by AYUSH industry	As per Table - I	30% of the cost of cultivation
iv) Demonstration plots	-	Project based depending upon species cultivated and infrastructure created limited to Rs. 10.00 lakhs / plot of minimum 2 acres
v) Setting up of seed/ germ plasm centres	-	Rs. 25 lakhs/ centre

**Table - IV :**

<b>Norms of Assistance for Post Harvest Management, Processing etc.</b>			
<b>Sl. No.</b>	<b>Programmes</b>	<b>Estimated Cost</b>	<b>Admissible Assistance</b>
<b>1. POST HARVEST MANAGEMENT</b>			
	i) Drying sheds	Rs. 10.00 lakhs	100% assistance for Govt. / Semi-Govt. / Public Sector and 50% for SHGs / Cooperatives/ Private sector
	ii) Storage godowns	Rs. 10.00 lakhs	100% assistance for Govt. / Semi-govt. / Public Sector and 50% for SHGs / Cooperatives/ Private sector
<b>2. PROCESSING AND VALUE ADDITION</b>			
	i) Processing unit	Rs. 400 lakhs	100% assistance in case of Govt / Semi-govt. / SHGs / Cooperatives / Public Sector limited to Rs. 400 lakhs / unit
	ii) Marketing infrastructure	Rs.10.00 lakhs for rural collection center	Project based. 100% assistance to Public Sector and 50% assistance to Private Sector /SHGs / Cooperatives
		Rs. 200 lakhs for district collection centre	
	iii) Organic/GAP certification	Rs. 5 lakhs for 50 ha.	Assistance up to 50% of the cost limited to Rs. 10,000/ha for maximum area of 4 ha/ beneficiary spread over a period of three years would be provided for organic / GAP cultivation. For certification Rs. 5.00 lakhs for 50 ha. will be provided





## **NATIONAL MEDICINAL PLANTS BOARD**

**Ministry of Ayurveda, Yoga & Naturopathy, Unani, Siddha and Homoeopathy (AYUSH)**

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