

**GOVERNMENT OF INDIA
MINISTRY OF AYURVEDA, YOGA & NATUROPATHY,
UNANI, SIDDHA AND HOMOEOPATHY
(AYUSH)**

**LOK SABHA
UNSTARRED QUESTION NO.1826
TO BE ANSWERED ON 27TH JULY, 2018**

CULTIVATION OF NATURAL HERBS

1826. SHRIMATI V. SATHYA BAMA:

SHRI K.N. RAMACHANDRAN:

SHRI PR. SENTHIL NATHAN:

SHRI BHARATHI MOHAN R.K.:

Will the Minister of **AYURVEDA, YOGA AND NATUROPATHY, UNANI, SIDDHA AND HOMOEOPATHY (AYUSH)** be pleased to state:

- (a) whether the Government has taken adequate measures to promote the cultivation of Natural herbs and rare medicinal plants in the country and also to produce herbs and medicinal plants from sea;
- (b) if so, the details thereof and funds allocated during each of the last three years along with the herbs/medicinal plants cultivated, State/UT-wise;
- (c) whether the Government has provided funds and support for the Research and Developments facilities to Tamil Nadu; and
- (d) if so, the details thereof during the said period?

ANSWER

**THE MINISTER OF STATE (IC) OF THE MINISTRY OF AYURVEDA,
YOGA & NATUROPATHY, UNANI, SIDDHA AND HOMOEOPATHY
(SHRI SHRIPAD YESSO NAIK)**

(a) & (b): Yes, Ministry of AYUSH, Government of India has taken adequate measures to promote the cultivation of Natural herbs and rare medicinal plants in the country and in this regard Ministry of AYUSH under its Centrally Sponsored Scheme of National AYUSH Mission (NAM) is promoting large scale cultivation of medicinal plants on farmer's land throughout the country.

Under the NAM Scheme, there is a component on 'Medicinal Plants' which primarily aimed at supporting cultivation of medicinal plants on farmer's land with backward linkages through establishment of nurseries for supply of quality planting material, and forward linkages for post-harvest management. The cultivation programme is being implemented through the identified implementing agency of concerned state (generally State Agriculture / Horticulture

Departments) and the financial assistance is provided as per the State Annual Action Plan approved for concerned State. The financial assistance is provided in the form of subsidy @ 30%, 50% and 75% of cost of cultivation of medicinal plants. As per scheme guidelines, the assistance for cultivation of rare, endangered threatened species is provided @ 75% of cost of cultivation.

The State/UT-wise details of the funds allocated during the last three years for supporting cultivation of medicinal plants under the NAM scheme is at **Annexure-I** and the species supported are at **Annexure-II**.

(c) & (d): Yes, the Ministry of AYUSH under its Centres of Excellence scheme has provided fund of Rs. 819.00 lakh to three organizations in state of Tamil Nadu for upgrading their facilities and conducting research in AYUSH. The detail is at **Annexure-III**.

In addition, the National Medicinal Plants Board (NMPB), Ministry of AYUSH under its Central Sector Scheme for “Conservation, Development and Sustainable Management of Medicinal Plants” also provide support for Research and Development on various aspects of medicinal plants to different research organizations throughout the country including the state of Tamil Nadu. The details of the funds provided under above said for supporting Research and Development on various aspects of medicinal plants in the state of Tamil Nadu during the last three years is at **Annexure-IV**.

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Annexure-I

The State/UT-wise details of the funds allocated during the last three years for supporting cultivation of medicinal plants under the NAM scheme

S. No	Name of State	2015-16	2016-17	(Rs. In lakhs)
		Funds Allocated	Funds Allocated	Funds Allocated
1	Andhra Pradesh	133.924	193.165	213.158
2	Arunachal Pradesh	25.032	45.031	61.111
3	Assam	158.971	175.37	392.284
4	Andman & Nicobar Island	19.489	40.802	68.922
5	Bihar	396.061	691.887	659.83
6	Chhattisgarh	152.705	217.942	178.646
7	Chandigarh	92.554	36.445	88.397
8	Gujarat	168.141	219.886	185.05
9	Goa	69.862	41.606	38.115
10	Delhi	52.86	45.422	152.47
11	Dadra & Nagar Haveli	38	58.619	43.581
12	Daman & Diu	48.819	69.048	38.721
13	Haryana	106.131	122.627	166.01
14	Himachal Pradesh	62.115	60.036	75.783
15	Jammu & Kashmir	59.336	93.276	80.392
16	Jharkhand	144.14	262.674	235.537
17	Karnataka	137.27	233.208	247.465
18	Kerala	126.562	169.608	269.787
19	Lakshdweep	37.478	58.104	27.971
20	Madhya Pradesh	306.973	499.847	450.651
21	Maharashtra	205.972	373.846	355.725
22	Manipur	60.896	73.38	90.341
23	Meghalaya	38.757	55.348	91.576
24	Mizoram	43.806	44.345	97.568
25	Nagaland	60.502	53.493	104.669
26	Orissa	187.726	308.835	297.518
27	Punjab	89.625	150.301	104.201
28	Puducherry	20.075	23.191	38.115
29	Rajasthan	264.413	474.86	503.22
30	Sikkim	30.789	32.172	25.41
31	Tamil Nadu	144.452	252.725	286.666
32	Tripura	36.864	54.522	77.281
33	Telangana	111.35	150.835	119.135
34	Uttar Pradesh	720.119	1241.326	1238.718
35	Uttarakhand	60.989	70.024	130.148
36	West Bengal	180.811	318.86	348.76
Total		4593.569	7012.664	7582.932

Annexure – II

The State/ UT-wise detail of Medicinal Plants supported for cultivation under the Centrally Sponsored Scheme of National AYUSH Mission (NAM) 2015-16 to 2017-18.

S.No.	Name of States	Medicinal Plants Species supported for cultivation	Area supported (in ha.)
1	Andhra Pradesh	<i>Aloe vera, Aegle marmelos, Andrographis paniculata, Asparagus racemosus, Azadirachta indica, Bacopa monnieri, Cassia angustifolia, Centella asiatica, Gloriosa superba, Hedychium spicatum, Ocimum sanctum, Phyllanthus emblica, Piper longum, Pterocarpus santalinus, Rauwolfia serpentina, Santalum album, Terminalia arjuna, Terminalia bellirica, Terminalia chebula, Withania somnifera.</i>	2504
2	Arunachal Pradesh	<i>Acorus calamus, Asparagus racemosus, Berberis aristata, Picrorhiza kurroa, Rauwolfia serpentina, Saussurea costus, Valeriana wallichii, Zanthoxylum alatum.</i>	213.4
3	Assam	<i>Acacia catechu, Acorus calamus, Aegle marmelos, Albizia lebbeck, Aloe vera, Alstonia scholaris, Andrographis paniculata, Aquilaria agallocha, Asparagus racemosus, Azadirachta indica, Bacopa monnieri, Boerhaavia diffusa, Cinnamomum tamala, Commiphora wightii, Dioscorea bulbifera, Gloriosa superba, Gmelina arborea, Hemidesmus indicus, Mesua ferrea, Ocimum sanctum, Oroxylum Indicum, Phyllanthus emblica, Piper longum, Plumbago zeylanica, Rauwolfia serpentina, Santalum album, Saraca asoca, Stevia rebaudiana, Terminalia arjuna, Terminalia bellirica, Terminalia chebula, Tinospora cordifolia, Vitex nigundo, Withania somnifera, Zanthoxylum alatum.</i>	485.6
4	Chhattisgarh	<i>Acorus calamus, Adhatoda zeylanica, Aegle marmelos, Aloe vera, Andrographis paniculata, Asparagus racemosus, Celastrus paniculatus, Commiphora wightii, Embelia ribes, Gloriosa superba, Mucuna pruriens, Ocimum sanctum, Piper longum, Plumbago zeylanica, Premna integrifolia, Pterocarpus santalinus, Santalum album, Terminalia arjuna, Tinospora cordifolia, Withania somnifera.</i>	292
5	Gujarat	<i>Acorus calamus, Asparagus racemosus, Boerhaavia diffusa, Celastrus paniculatus, Chlorophytum borivilianum, Convolvulus microphyllus, Embelia ribes, Lepadenia reticulata, Ocimum sanctum, Phyllanthus emblica, Piper longum, Plumbago zeylanica, Pueraria tuberosa, Tinospora cordifolia, Uraria picta, Withania somnifera.</i>	417.83
6	Goa	<i>Garcinia indica, Piper longum, Stevia rebaudiana.</i>	52.86
7	Haryana	<i>Aegle marmelos, Aloe vera, Andrographis paniculata, Asparagus racemosus, Ocimum sanctum, Phyllanthus emblica, Plantago ovata, Rauwolfia serpentina, Stevia rebaudiana, Terminalia chebula, Withania somnifera.</i>	419.8
8	Himachal Pradesh	<i>Aconitum heterophyllum, Aloe vera, Chlorophytum borivilianum, Ocimum sanctum, Picrorhiza kurroa, Podophyllum hexandrum, Rauwolfia serpentina, Saussurea costus, Valeriana wallichii, Withania somnifera.</i>	166
9	Jammu & Kashmir	<i>Aconitum heterophyllum, Aloe vera, Hippophae rhamnoides, Inula racemosa, Picrorhiza kurroa, Podophyllum hexandrum, Rheum emodi, Saussurea costus, Withania somnifera.</i>	64

10	Karnataka	<i>Acorus calamus, Aloe vera, Andrographis paniculata, Aquilaria agallocha, Cassia angustifolia, Chlorophytum borivilianum, Coleus forskohlii, Mucuna prurita, Ocimum sanctum, Phyllanthus emblica, Piper longum, Pterocarpus santalinus, Santalum album, Stevia rebaudiana, Tephrosia purpurea, Withania somnifera.</i>	2033.4
11	Kerala	<i>Adhatoda zeylanica, Aegle marmelos, Aloe vera, Alpinia calcarata, Alpinia galanga, Andrographis paniculata, Asparagus racemosus, Azadirachta indica, Bacopa monnieri, Caesalpinia sappan, Coleus forskohlii, Desmodium gangeticum, Garcinia indica, Gmelina arborea, Hemidesmus indicus, Kaempferia galanga, Ocimum sanctum, Phyllanthus emblica, Piper longum, Plumbago zeylanica, Pterocarpus marsupium, Pterocarpus santalinus, Rauwolfia serpentina, Santalum album, Saraca asoca, Sida rhombifolia, Solanum xanthocarpum, Terminalia chebula, Vitex negundo.</i>	1529
12	Maharashtra	<i>Acorus calamus, Aloe vera., Asparagus racemosus, Azadirachta indica, Bacopa monnieri, Chlorophytum borivilianum, Coleus forskohlii, Commiphora wightii, Hemidesmus indicus, Ocimum sanctum, Ocimum sanctum, Phyllanthus emblica, Piper longum, Pterocarpus santalinus, Santalum album, Terminalia chebula, Tinospora cordifolia.</i>	770.43
13	Madhya Pradesh	<i>Andrographis paniculata, Chlorophytum borivilianum, Coleus forskohlii, Commiphora wightii, Ocimum sanctum, Withania somnifera.</i>	6229
14	Manipur	<i>Acacia catechu, Aegle marmelos, Aloe vera, Aquilaria agallocha, Centella asiatica, Cinnamomum tamala, Cinnamomum zeylanicum, Phyllanthus emblica, Stevia rebaudiana.</i>	526.2
15	Mizoram	<i>Aloe vera, Andrographis paniculata, Cinnamomum zeylanicum, Ocimum sanctum, Oroxylum Indicum, Phyllanthus emblica, Rauwolfia serpentina, Swertia chirata, Terminalia bellirica, Terminalia chebula.</i>	151.28
16	Meghalaya	<i>Aegle marmelos, Aloe vera, Alpinia galanga, Aquilaria agallocha, Asparagus racemosus, Azadirachta indica, Centella asiatica, Cinnamomum zeylanicum, Kaempferia galanga, Piper longum, Rauwolfia serpentina, Swertia chirata, Valeriana wallichii, Zanthoxylum alatum.</i>	70
17	Nagaland	<i>Andrographis paniculata, Aquilaria agallocha, Cinnamomum zeylanicum, Mucuna prurita, Piper longum, Tephrosia purpurea, Valeriana wallichii, Zanthoxylum alatum.</i>	439
18	Rajasthan	<i>Aloe vera, Asparagus racemosus, Cassia angustifolia, Chlorophytum borivilianum, Commiphora wightii, Gloriosa superba, Lepadenia reticulata, Ocimum sanctum, Phyllanthus amarus, Phyllanthus emblica, Premna integrifolia, Rauwolfia serpentina, Stevia rebaudiana, Tecomella undulata, Tephrosia purpurea, Tinospora cordifolia, Withania somnifera,</i>	2833.5
19	Sikkim	<i>Aconitum heterophyllum, Coleus forskohlii, Hedychium spicatum, Nardostachys jatamansi, Phyllanthus emblica, Picrorhiza kurroa Swertia chirata.</i>	179
20	Odisha	<i>Aegle marmelos, Dioscorea bulbifera, Ocimum sanctum, Piper longum, Rauwolfia serpentina, Withania somnifera.</i>	488.5
21	Punjab	<i>Rauwolfia serpentina, Withania somnifera.</i>	360
22	Puducherry	<i>Adhatoda zeylanica, Andrographis paniculata, Boerhaavia diffusa, Centella asiatica.</i>	43
23	Tamil Nadu	<i>Coleus forskohlii, Garcinia indica, Gloriosa superba, Phyllanthus emblica, Piper longum, Solanum xanthocarpum.</i>	2266

24	Telangana	<i>Acorus calamus, Aloe vera, Cassia angustifolia, Gloriosa superba, Mucuna prurita, Ocimum sanctum, Phyllanthus emblica, Pterocarpus santalinus, Santalum album, Stevia rebaudiana, Withania somnifera.</i>	1096.18
25	Tripura	<i>Terminalia arjuna</i>	45
26	Uttarakhand	<i>Aconitum heterophyllum, Cinnamomum tamala, Hippophae rhamnoides, Picrorhiza kurroa, Podophyllum hexandrum, Rauwolfia serpentina, Rheum emodi, Saussurea costus.</i>	483.53
27	Uttar Pradesh	<i>Acorus calamus, Aloe vera, Andrographis paniculata, Artemisia annua, Asparagus racemosus, Bacopa monnieri, Gloriosa superba, Mucuna prurita, Ocimum sanctum, Rauwolfia serpentina, Withania somnifera.</i>	6431
28	West Bengal	<i>Acacia catechu, Aegle marmelos, Andrographis paniculata, Azadirachta indica, Bacopa monnieri, Cassia angustifolia, Centella asiatica, Garcinia indica, Glycyrrhiza glabra, Holarrhena antidysenterica , Kaempferia galanga, Nardostachys jatamansi, Ocimum sanctum, Phyllanthus amarus, Phyllanthus emblica, Podophyllum hexandrum, Pterocarpus marsupium, Rauwolfia serpentina, Saraca asoca, Swertia chirata, Terminalia arjuna, Terminalia bellirica, Terminalia chebula.</i>	754
		Total	31343.51

Annexure-III

The Ministry of AYUSH under its Centres of Excellence scheme has provided fund of Rs. 819.00 lakh to following three organizations for upgrading their facilities and conducting research in AYUSH.

Sl. No.	Project	Activities	Grant-in-aid given (In lakhs)	Period of funding
1.	Niamath Science Academy, Chennai for Centre of Excellence for Unani Ilaj bit Tadbeer-Regimental Therapy	<ul style="list-style-type: none"> Developing SOPs in Regimental therapy Constructed building and upgraded the facilities Providing 25% of medical services on free of cost to EWS category 	200.00	2010-2016
2.	The Ayurvedic Trust, Coimbatore for Up gradation to Centre of Excellence – Research Hospital for Rheumatology	<ul style="list-style-type: none"> Documentation of efficacy of Ayurvedic treatment in identified disease conditions viz. Rheumatoid arthritis, osteoarthritis, spondylosis, ankylosing spondylitis, gouty/psoriatic arthritis and developing SOPs for these conditions. Constructed building and purchased medical equipments Providing 25% of medical services on free of cost to EWS category 	255.5	2009-2017
3.	SASTRA University, Tamil Nadu - Centre of Excellence in National Facility for the Scientific Manufacturing of Ayurvedic & Siddha- Rasa Aushadhes and Bhasmas	<ul style="list-style-type: none"> Constructed a GMP unit and procured of equipment & instruments Safety and toxicity studies of Ayurveda and Siddha medicines Conducting training programs for Ayurveda and Siddha doctors on chemical characterization & safety issues 	363.71	2010-2015
Total			819.00	

Annexure-IV

The details of the funds provided under Central Sector Scheme for “Conservation, Development and Sustainable Management of Medicinal Plants” of NMPB, Ministry of AYUSH for supporting Research and Development on various aspects of medicinal plants in the state of Tamil Nadu during the last three years

S.No.	Name of the Organization	Amount (Rs. In lakhs)
1.	T. Stanes and Co. Ltd., Coimbatore, Tamil Nadu	11.26
2.	Institute of Forest Genetics & Tree Breeding (IFGTB), Coimbatore, Tamil Nadu	47.413
3.	Bharathidasan University, Tiruchirappalli, Tamil Nadu	13.02
4.	Pachaiyappa's College, Tamil Nadu	9.14058
5.	VELS Institute of Science, Technology and Advanced Studies (VISTAS) VELS University, Chennai, Tamil Nadu	3.80
6.	SASTRA University, Thanjavur, Tamil Nadu	4.00
Total		88.63358

