

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

**LOK SABHA
UNSTARRED QUESTION NO. 1005
TO BE ANSWERED ON 22ND NOVEMBER, 2019**

MEDICINAL PLANTS

**1005. SHRI V.K.SREEKANDAN:
SHRI KESINENI SRINIVAS:**

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

- (a) the details of the production of medicinal plants in the country, State-wise, especially in Andhra Pradesh;
- (b) whether it is a fact that the Government is considering to promote cultivation of medicinal plants to strengthen the AYUSH sector, if so, the details thereof;
- (c) the details of the outcomes of the National AYUSH Mission in respect of mass cultivation of medicinal plants;
- (d) whether it is a fact that the National Medicinal Plants Board has offered support for cultivation of quality planting materials, developing sustainable marketing and strengthening trade and research through programme mode for ensuring sustainability in all these sectors and if so, the details thereof;
- (e) whether any capacity building initiatives have been taken to increase farmer awareness about growing medicinal plants and if so, the details thereof and if not, the reasons therefor;
- (f) whether it is a fact that the Government is considering to encourage cultivation of medicinal plants through Forest and Agriculture Departments also; and
- (g) if so, the details thereof?

ANSWER

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

- (a): Ministry of AYUSH has supported 48,045.4 hectare area for cultivation of medicinal plants in different States and UTs of India. An area of 4,703.31 hectare has been supported in Andhra Pradesh state from 2015-16. Details are given at **Annexure – I**.
- (b): Yes, the Ministry of AYUSH, Government of India under its Centrally Sponsored Scheme of National AYUSH Mission (NAM) provides financial assistance to farmers to encourage cultivation of medicinal plants throughout the country. Under NAM scheme, there is a component on ‘Medicinal Plants’ which is primarily aimed at supporting cultivation of herbs/medicinal plants on farmer’s land.

(c): The details of the outcomes of the National AYUSH Mission in respect of mass cultivation of medicinal plants is given at **Annexure – II (a)** and **Annexure – II (b)**.

(d): At present, the National Medicinal Plants Board (NMPB), Ministry of AYUSH, Government of India is implementing a Central Sector Scheme on “Conservation, Development and Sustainable Management of Medicinal Plants” under which project based support is provided for survey, inventorization, *in-situ* conservation through development of Medicinal Plants Conservation and Development Areas (MPCDAs), *ex-situ* conservation through establishment of herbal gardens etc. Besides it, under NAM scheme, there is a component on ‘Medicinal Plants’ which is primarily aimed at supporting cultivation of herbs/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.

(e): Ministry of AYUSH has supported Capacity building programmes like Workshops / Seminars / Training programme / Market promotion / Market intelligence etc. under its CSS and NAM scheme. It includes Exposure Visits/participation in Exhibitions and Fairs, Setting up of Facilitation Centres, Medicinal Plant Species Specific Campaigns, Buyer Seller Meet, Publication, and through e-charak (a mobile application).

(f) & (g): Conservation and resource augmentation of medicinal plants under CSS scheme are implemented through forest department. NAM scheme is implemented through Mission Directors identified in States / UTs located in State Horticulture / Agriculture/ Forest / AYUSH departments and State Medicinal Plants Boards.

Annexure - I

Area supported for cultivation under National AYUSH Mission (NAM) Scheme of Ministry of AYUSH.

(Area in hectare)

S. no.	State Name	Physical Target					
		2015-16	2016-17	2017-18	2018-19	2019-20	TOTAL
1	Andhra Pradesh	447	1513.26	897	508.05	1338	4703.31
2	Arunachal Pradesh	0	142.4	71	9	0	222.4
3	Assam	0	261	224.6	138	0	623.6
4	Bihar	0	0	0	0	175	175
5	Chhattisgarh	0	220	72	108	0	400
6	Goa	0	22.5	30.36	30.36	30	113.22
7	Gujarat	141	191.6	85.23	518.47	0	936.3
8	Haryana	174.8	245	0	0	0	419.8
9	Himachal Pradesh	39	120	7	0	70	236
10	Jammu & Kashmir	9	34	21	24	28	116
11	Karnataka	529	706.3	769	469	352.6	2825.9
12	Kerala	258	535	736	409.5	0	1938.5
13	Madhya Pradesh	1681	2518	2030	1262	790	8281
14	Maharashtra	326.63	0	443.8	0	520	1290.43
15	Manipur	142.2	242	142	60	30	616.2
16	Meghalaya	0	48	22	0	108	178
17	Mizoram	59.28	27	65	187	6	344.28
18	Nagaland	51	138	250	102.5	0	541.5
19	Orrisa	0	488.504	0	378	0	866.504
20	Puducherry	0	43	0	2.43	0	45.43
21	Punjab	0	242	0	16	340	598
22	Rajasthan	330	1162.5	1341	519	760	4112.5
23	Sikkim	63	32	84	0	0	179
24	Tamil Nadu	633	960	673	765	900	3931
25	Telangana	345	294.18	457	236.7	341.3	1674.18
26	Tripura	45	0	0	210.6	0	255.6
27	Uttarakhand	153	148	182.53	110	0	593.53
28	Uttar Pradesh	3188	1898	1345	3633.44	0	10064.4
29	West Bengal	107	230	417	261.42	748.38	1763.8
Total		8721.91	12462.2	10365.5	9958.47	6537.3	48045.4

Annexure - II (a)

State/ UT-wise detail of Medicinal Plants supported for cultivation under National AYUSH Mission (NAM) scheme (2015-16 to 2019-20)

S. No.	Name of States	Medicinal Plants Species supported for cultivation	Area supported (in Ha.)
1	Andhra Pradesh	<i>Aloe Vera, Aegle marmelos, Santalum album, Terminalia chebula, Gloriosa superba, Andrographis paniculata, Hedychium spicatum, Phyllanthus emblica, Terminalia arjuna, Withania somnifera, Terminalia bellirica, Bacopa monnieri, Centella asiatica, Azadirachta indica, Piper longum, Pterocarpus santalinus, Rauwolfia serpentina, Cassia angustifolia, Asparagus racemosus, Ocimum sanctum, Coleus barbatus, Mucuna pruriata</i>	4703.31
2	Arunachal Pradesh	<i>Acorus calamus, Berberis aristata, Sassaurea costus, Picrorhiza kurrooa, Rauwolfia serpentina, Asparagus racemosus, Valeriana wallichii, Zanthoxylum alatum, Swertia chirata, Aconitum heterophyllum</i>	222.4
3	Assam	<i>Aquilaria agallocha, Aloe Vera, Phyllanthus emblica, Terminalia arjuna, Saraca asoca, Withania somnifera, Hemidesmus indicus, Acorus calamus, Aegle marmelos, Terminalia bellirica, Bacopa monnieri, Gmelina arborea, Tinospora cordifolia, Commiphora wightii, Terminalia chebula, Gloriosa superba, Andrographis paniculata, Acacia catechu, Stevia rebaudiana, Azadirachta indica, Vitex negundo, Piper longum, Boerhavia diffusa, Dioscorea bulbifera, Alstonia scholaris, Rauwolfia serpentina, Asparagus racemosus, Albizzia lebbeck, Cinnamomum tamala, Ocimum sanctum, Mesua ferrea, Plumbago zeylanica, Zanthoxylum alatum, Oroxyllum indicum, Santalum album, Alpinia galanga</i>	623.6
4	Bihar	<i>Tinospora cordifolia, Andrographis paniculata, Asparagus racemosus, Ocimum sanctum, Acorus calamus, Rauwolfia serpentina, Chlorophytum borivillianum</i>	175
5	Chhattisgarh	<i>Adathoda zeylanica, Premna integrifolia, Aloe Vera, Terminalia arjuna, Withania somnifera, Acorus calamus, Aegle marmelos, Santalum album, Plumbago zeylanica, Tinospora cordifolia, Commiphora wightii, Gloriosa superba, Andrographis paniculata, Mucuna pruriata, Celastrus paniculata, Piper longum, Pterocarpus santalinus, Asparagus racemosus, Ocimum sanctum, Embelia ribes, Rouwolfa serpentina, Bacopa monnieri, Convolvulus microphyllus, Gymnema sylvestre, Coleus barbatus, Boerhavia diffusa, Centella asiatica</i>	400
6	Gujarat	<i>Phyllanthus emblica, Withania somnifera, Acorus calamus, Plumbago zeylanica, Lepadenia reticulata, Tinospora cordifolia, Celastrus paniculata, Piper longum, Boerhaavia diffusa, Urarea picta, Chlorophytum borivillianum, Convolvulus microphyllus, Asparagus racemosus, Ocimum sanctum, Embelia ribes, Pueraria tuberosa, Stevia rebaudiana, Plantago ovata, Aloe vera, Bacopa monnieri, Andrographis paniculata, Lepidium sativum, Gloriosa superba</i>	936.3
7	Goa	<i>Stevia rebaudiana, Garcinia indica, Piper longum</i>	113.22
8	Haryana	<i>Aloe Vera, Phyllanthus emblica, Withania somnifera, Aegle marmelos, Terminalia chebula, Plantago ovata, Andrographis paniculata, Stevia rebaudiana, Rauwolfia serpentina, Asparagus racemosus, Ocimum sanctum</i>	419.8

9	Himachal Pradesh	<i>Aloe Vera, Withania somnifera, Aconitum heterophyllum, Podophyllum hexandrum, Sassurea costus, Picrorhiza kurrooa, Chlorophytum borivillianum, Rauwolfia serpentina, Valeriana wallichii, Ocimum sanctum, Ocimum sanctum, Stevia rebaudiana</i>	236
10	Jammu & Kashmir	<i>Aloe Vera, Withania somnifera, Aconitum heterophyllum, Podophyllum hexandrum, Sassurea costus, Picrorhiza kurrooa, Hippophae rhamnoides, Inula racemosa, Rheum emodi, Asparagus racemosus, Bacopa monnieri</i>	116
11	Karnataka	<i>Aquilaria agallocha, Aloe Vera, Phyllanthus emblica, Withania somnifera, Acorus calamus, Santalum album, Coleus forskholii, Mucuna prurita, Stevia rebaudiana, Tephrosia purpurea, Piper longum, Pterocarpus santalinus, Chlorophytum borivillianum, Cassia angustifolia, Ocimum sanctum, Gloriosa superba, Aquilaria agallocha</i>	2825.9
12	Kerala	<i>Adathoda zeylanica, Aloe Vera, Phyllanthus emblica, Saraca asoca, Hemidesmus indicus, Aegle marmelos, Pterocarpus marsupium, Bacopa monnieri, Santalum album, Plumbago zeylanica, Coleus forskholii, Kaempferia galanga, Sida rhombifolia, Gmelina arborea, Alpinia galangal, Terminalia chebula, Andrographis paniculata, Garcinia indica, Solanum xanthocarpum, Azadirachta indica, Vitex negundo, Piper longum, Pterocarpus santalinus, Desmodium gangeticum, Rauwolfia serpentina, Asparagus racemosus, Alpinia calcarata</i>	1938.5
13	Maharashtra	<i>Aloe Vera, Phyllanthus emblica, Acorus calamus, Bacopa monnieri, Santalum album, Coleus forskholii, Tinospora cordifolia, Commiphora wightii, Terminalia chebula, Azadirachta indica, Piper longum, Pterocarpus santalinus, Chlorophytum borivillianum, Asparagus racemosus, Ocimum sanctum, Withania somnifera, Bergenia ciliata, Garcinia indica</i>	1290.43
14	Madhya Pradesh	<i>Withania somnifera, Coleus forskholii, Commiphora wightii, Andrographis paniculata, Chlorophytum borivillianum, Ocimum sanctum, Plantago ovata, Stevia rebaudiana, Lepidium sativum, Gloriosa superba, Rauwolfia serpentina</i>	8281
15	Manipur	<i>Aquilaria agallocha, Aloe Vera, Phyllanthus emblica, Aegle marmelos, Cinnamomun zeylanicum, Acacia catechu, Stevia rebaudiana, Centella asiatica, Cinnamomum tamala, Acorus calamus, Kaempferia galanga, Piper longum, Rouwolfa serpentina, Oroxyllum indicum, Panax Pseudo-ginseng</i>	616.2
16	Mizoram	<i>Phyllanthus emblica, Swertia chirata, Cinnamomun zeylanicum, Andrographis paniculata, Rauwolfia serpentina, Oroxylum Indicum, Azadirachta indica, Centella asistica, Cinnamomum tamala, Embelia ribes, Solanum xanthocarpum</i>	344.25
17	Meghalaya	<i>Aquilaria agallocha, Aloe Vera, Aegle marmelos, Swertia chirata, Cinnamomun zeylanicum, Kaempferia galanga, Alpinia galanga, Centella asiatica, Azadirachta indica, Piper longum, Rauwolfia serpentina, Asparagus racemosus, Valeriana wallichii, Zanthoxylum alatum, Acorus calamus, Cinnamomum tamala, Oroxylum indicum, Rubia cordifolia, Vitex nigundo</i>	178
18	Nagaland	<i>Aquilaria agallocha, Cinnamomun zeylanicum, Andrographis paniculata, Mucuna prurita, Tephrosia purpurea, Piper longum, Valeriana wallichii, Zanthoxylum alatum</i>	541.5

19	Odisha	<i>Withania somnifera, Aegle marmelos, Piper longum, Dioscorea bulbifera, Rauwolfia serpentina, Ocimum sanctum, Aloe vera, Emblica officinalis</i>	866.504
20	Punjab	<i>Withania somnifera, Ocimum sanctum, Aloe vera, Stevia rebaudiana, Emblica officinalis, Santalum album, Terminalia chebula, Terminalia bellerica, Acacia catechu</i>	598
21	Puducherry	<i>Adathoda zeylanica, Andrographis paniculata, Centella asiatica, Boerhavia diffusa, Withania somnifera, Coleus barbatus, Aloe vera, Cassia angustifolia</i>	45.43
22	Rajasthan	<i>Premna integrifolia, Aloe Vera, Phyllanthus emblica, Withania somnifera, Phyllanthus amarus, Lepadenia reticulata, Tinospora cordifolia, Commiphora wightii, Gloriosa superba, Stevia rebaudiana, Tephrosia purpurea, Tacocella undulata, Chlorophytum borivillianum, Rauwolfia serpentina, Cassia angustifolia, Asparagus racemosus, Ocimum sanctum, Convolvulus microphyllus, Sida cordifolia, Solanum anguivi, Lepidium sativum, Boerhavia diffusa, Mucuna prurita, Coleus forskholii, Saraca indica, Gymnema sylvestre, Plantago ovate</i>	4112.5
23	Sikkim	<i>Aconitum heterophyllum, Swertia chirata, Coleus forskholii, Nardostachys jatamansi, Hedychium spicatum, Picrorhiza kurrooa</i>	179
24	Tamil Nadu	<i>Phyllanthus emblica, Coleus forskholii, Gloriosa superba, Garcinia indica, Solanum xanthocarpum, Piper longum, Cassia angustifolia, Stevia rebaudiana, Catharanthus roseus, Pterocarpus santalinus, Solanum nigrum, Ocimum sanctum, Acorus calamus, Santalum album, Azadirachta indica</i>	3931
25	Telangana	<i>Aloe Vera, Phyllanthus emblica, Withania somnifera, Acorus calamus, Santalum album, Mucuna prurita, Pterocarpus santalinus, Ocimum sanctum, Acorus calamus, Emblica officinalis, Mucuna prurita, Coleus barbatus, Rauwolfia serpentina, Hemidesmus indicus</i>	1674.18
26	Tripura	<i>Mucuna prurita, Aquilaria agallocha, Terminalia arjuna</i>	255.6
27	Uttarakhand	<i>Rheum emodi, Aconitum heterophyllum, Podophyllum hexandrum, Sassaurea costus, Picrorhiza kurrooa, Rauwolfia serpentina, Hippophae rhamnoides, Cinnamomum tamala, Aconitum ferox, Santalum album, Asparagus racemosus</i>	593.53
28	Uttar Pradesh	<i>Aloe Vera, Artemisia Annua, Withania somnifera, Acorus calamus, Bacopa monnieri, Andrographis paniculata, Mucuna prurita, Rauwolfia serpentina, Asparagus racemosus, Ocimum sanctum, Cassia angustifolia, Phyllanthus amarus, Gymnema sylvestre, Centella asistica</i>	10064.44
29	West Bengal	<i>Phyllanthus emblica, Saraca asoca, Aegle marmelos, Terminalia bellirica, Podophyllum hexandrum, Pterocarpus marsupium, Phyllanthus amarus, Bacopa monnieri, Swertia chirata, Kaempferia galanga, Terminalia chebula, Nardostachys jatamansi, Andrographis paniculata, Acacia catechu, Garcinia indica, Holarrhena antidysenterica, Glycyrrhiza glabra, Azadirachta indica, Rauwolfia serpentina, Cassia angustifolia, Ocimum sanctum, Azadirachta indica, Aloe vera, Eclipta alba</i>	1763.8
Total			48045.4

Activities supported under National AYUSH Mission (NAM) Scheme of Ministry of AYUSH.

S. No.	Activities supported	Physical Target					
		2015-16	2016-17	2017-18	2018-19	2019-20	TOTAL
1	Cultivation of Medicinal Plants (Area in hectare)	8721.91	12462.2	10365.5	9958.47	6537.3	48045.4
2	Establishment of Nursery (No.)	32	38	38	38	44	190
3	Post-harvest Management (No.)	62	48	66	52	93	321
4	Processing Unit (No.)	1	0	2	1	16	20
5	Rural / District Collection Centres / Retail outlet (No.)	0	11	7	17	2	37
6	Seed germplasm centres (No.)	0	3	5	0	1	9

Annexure III

Nurseries supported for Medicinal Plants Component under National AYUSH Mission (NAM) Scheme of Ministry of AYUSH.

S. No.	State Name	Physical Target					
		2015-16	2016-17	2017-18	2018-19	2019-20	TOTAL
1	Andhra Pradesh	2	8	4	4	3	21
2	Arunachal Pradesh	0	0	1	1	0	2
3	Assam	0	1	3	0	0	4
4	Bihar	0	0	0	0	7	7
5	Chhattisgarh	0	1	2	2	0	5
6	Goa	0	1	1	0	2	4
7	Gujarat	4	4	2	3	0	13
8	Haryana	0	1	0	0	0	1
9	Himachal Pradesh	1	0	2	3	3	9
10	Jammu & Kashmir	6	2	2	4	1	15
11	Karnataka	0	0	0	1	0	1
12	Kerala	1	2	2	2	0	7
13	Maharashtra	0	0	2	0	4	6
14	Manipur	2	0	1	2	1	6
15	Meghalaya	0	2	3	0	2	7
16	Mizoram	1	3	2	2	1	9
17	Nagaland	0	0	4	3	0	7
18	Orrisa	0	0	0	3	0	3
19	Puducherry	0	0	0	1	0	1
20	Punjab	0	2	0	3	6	11
21	Rajasthan	4	1	4	0	7	16
22	Sikkim	0	1	0	0	0	1
23	Telangana	1	2	2	1	3	9
24	Uttrakhand	1	2	0	0	0	3
25	Uttar Pradesh	5	5	0	1	0	11
26	West Bengal	4	0	1	2	4	11
TOTAL		32	38	38	38	44	190