

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

**LOK SABHA  
UNSTARRED QUESTION NO.2281  
TO BE ANSWERED ON 29<sup>TH</sup> JULY, 2016**

**CONSERVATION OF MEDICINAL PLANTS**

**2281. SHRI KAMALBHAN SINGH MARABI:  
SHRIMATI BHAVANA PUNDALIKRAO GAWALI PATIL:**

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

- (a) the details of the medicinal plants existing in India;
- (b) whether the National Medicinal Plant Board is carrying out conservation, farming, processing and storage of all the available medicinal and aromatic plants;
- (c) if so, details thereof plant-wise;
- (d) whether several medicinal plants are becoming extinct; and
- (e) if so, the details of the medicinal and aromatic plants which are becoming extinct, State-wise including various efforts being made for their conservation?

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

(a): The Botanical Survey of India (BSI), an organization under Ministry of Environment, Forests & Climate Change, Government of India has been carrying out survey and documentation of all plant resources of the country including medicinal/aromatic plants and herbs. As per BSI estimate more than 8,000 species of medicinal herbs and medicinal plants are found in the country.

(b) & (c): The National Medicinal Plants Board (NMPB), Ministry of AYUSH has been implementing following Schemes w.e.f. 2008-09 for overall development of the Medicinal Plants sector in the country:

(i) Central Sector Scheme on “Conservation, Development and Sustainable Management of Medicinal Plants” aimed at providing support for survey, inventorization, in-situ conservation, ex-situ conservation / herbal gardens, linkage with Joint Forest Management Committees (JFMCs), Research and Development etc. The scheme is being implemented since 2008 and continued during the 12th Plan.

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(ii) Centrally Sponsored Scheme of “National Mission on Medicinal Plants” primarily aimed at supporting cultivation of medicinal plants on private land with backwards linkages for establishment of nurseries, for supply of quality planting material and forward linkages for post-harvest management etc. Since 2014-15, the Scheme is being implemented as “Medicinal Plants” component under National AYUSH Mission (NAM) Scheme of Ministry of AYUSH. Presently, under the scheme, cultivation / farming of 140 prioritized medicinal plants species are being supported by NMPB (**Annexure**).

**(d) & (e):** According to BSI, an organization under Ministry of Environment, Forest & Climate Change, about 70 medicinal and aromatic plants species are threatened due to various anthropogenic activities.

The threatened medicinal and aromatic plants are as follows:

*Aconitum balfouri, Aconitum chasmanthum, Aconitum deinorrhizum, Aconitum falconeri var latilobum, Aconitum ferox, Aconitum heterophyllum, Acorus gramineus, Allium stracheyi, Amyris balsamifera, Angelica glauca, Anogeissus sericea var. numularia, Aquillaria mallaccensis, Aquilaria khasiana, Aristolochia bracteolata, Aristolochia indica, Arnebia benthamii, Atropa acuminata, Berberis affinis, Berberis apiculata, Berberis aristata, Bergenia stracheyi, Boronia megastigma, Capparis pachyphylla, Carum villosum, Cedrus deodara, Colchicum luteum, Coptis teeta, Coscinium fenestratum, Dactylorhiza hatagirea, Dioscorea deltoidea, Elaeocarpus prunifolius, Ephedra gerardiana, Ferrula gummosa, Gaultheria fragrantissima, Gentiana kurooa, Gloriosa superba, Hedychium coronarium, Hedychium spicatum, Hyoscyamus niger, Hydnocarpus macrocarpa, Inula racemosa, Iphigenia indica, Iphigenia pallida, Iphigenia stellata, Jurinea dolomiaea, Kolanchoe roseus, Madhuca insignis, Myristica fragrans, Myroxylon balsamum var. pereirae, Nardostachys grandiflora, Origanum vulgare, Panax pseudoginseng, Picrorhiza kurrooa, Podophyllum hexandrum, Pogostemon cablin, Pterocarpus santalinus, Rauwolfia serpentina, Rheum emodi, Santalum album, Satureja horensis, Saussurea bracteata, Saussurea costus, Saussurea gnaphalodes, Swertia chirayita, Taxus wallichiana, Taxocarpus kurzii, Urginea indica, Urginea maritima and Vitex peduncularis.*

Under NMPB’s Central Sector Scheme on Conservation, Development and Sustainable Management of Medicinal Plants special attention is being given to conserve endangered species of medicinal plants in their natural habitat by way of *in-situ* conservation through development of Medicinal Plants Conservation & Development Areas (MPCDAs) and by way of *ex-situ* conservation through development of Herbal Gardens.

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## Annexure

### List of 140 prioritized medicinal plants for cultivation under Medicinal Plants component of National AYUSH Mission (NAM) Scheme of Ministry of AYUSH

#### PLANTS ELIGIBLE FOR 30% SUBSIDY

#	Botanical Name	Common Name	Cost per acre (In rupees)
1.	<i>Abrus precatorius</i>	Chirmati, Chinnoti, Gudumani	22,215
2.	<i>Acorus calamus</i> Linn.	Vach	30,250
3.	<i>Adhatoda zeylanica</i>	Adusa	8,615
4.	<i>Aloe vera</i> (Linn.) Burn.	Ghritkumari	20,570
5.	<i>Alpinia calcarata</i>	Smaller Galangal	27,394
6.	<i>Alpinia galanga</i>	Greater Galanga	23,628
7.	<i>Andrographis paniculata</i> (Linn.) Burn	Kalmegh	12,100
8.	<i>Artemisia annua</i> (Linn.)	Artemisia	16,113
9.	<i>Asparagus racemosus</i> Willd.	Shatavari	30,250
10.	<i>Azadirachta indica</i> A. Juss	Neem	18,150
11.	<i>Bacopa monnieri</i> (L.) Pennell	Brahmi	19,360
12.	<i>Bergenia ciliata</i> Stern.	Pashnabheda	33,119
13.	<i>Boerhaavia diffusa</i> Linn.	Punarnava	14,520
14.	<i>Cassia angustifolia</i> Vahl.	Senna	12,100
15.	<i>Caesalpinia sappan</i> Linn.	Patang	25,918
16.	<i>Catharanthus roseus</i>	Sadabahar	12,100
17.	<i>Celastrus paniculatus</i>	Malkangani, Jyothismathi, Bavanthi Beeja	10,744
18.	<i>Centella asiatica</i> (Linn.) Urban	Mandookparni	19,360
19.	<i>Chlorophytum borivillianum</i> Sant.	Shwet Musali	1,51,250
20.	<i>Cinnamomum verum</i> Presl <i>C. tamala</i> and <i>C. camphora</i>	Dalchini, Tejpat, Kapoor	37,510 21,503 *
21.	<i>Citrullus colocynthis</i> Forsk	Indrayan, Colocynth, Chitraphala, Gavaksi, Kasturasa, Trapusi, Bitterm apple	*
22.	<i>Clerodendrum phlomoidis</i> L.f	Ami	15,560
23.	<i>Clitoria ternatea</i> L.(Blue & White variety)	Aparajita	15,560
24.	<i>Coleus barbatus</i> Benth. Syn. <i>Coleus forskholii</i>	Pather Chur	20,812
25.	<i>Coleus vettiveroides</i> K.C. Jacob	Hrivera	*
26.	<i>Convolvulus microphyllus</i>	Shankhpushpi	16,113
27.	<i>Cryptolepis buchmanii</i> Roem & schult	Krsna sariva	20,598
28.	<i>Curcuma augustifolia</i>	Tikhur	*
29.	<i>Dacalophis hmiltonii</i>	Nannari	*
30.	<i>Digitalis purpurea</i> Linn.	Foxglove	*

31.	<i>Dioscorea bulbifera</i> Linn.	Rotalu, Gethi	30,250
32.	<i>Eclipta alba</i> Hassk.	Kesuria, Bhangru, Bhangra, Kesuti, Ajagara, Bringaraj, Kesar raja, Sumilaka, Suparna, Weed yam	11,664
33.	<i>Embelia ribes</i> Burm. f.	Vai Vidang	20,570
34.	<i>Emblica officinalis</i> Gaertn.	Amla	31,460
35.	<i>Ephedra gerardiana</i> Wall.	Somlata	*
36.	<i>Garcinia indica</i> Choisy	Kokum	30,250
37.	<i>Ginkgo biloba</i>	Ginkgo	*
38.	<i>Gymnema sylvestre</i> R. Br.	Gudmar	12,100
39.	<i>Hedychium spicatum</i> Buch-Ham.ex Smuth	Kapur kachari	19,360
40.	<i>Hemidesmus indicus</i> R.Br.	Anantmool, Indian Sarsaparilla	16,940
41.	<i>Holarrhena antidysenterica</i> Wall.	Kurchi/Kutaj	8,905
42.	<i>Hyoscyamus niger</i> L.	Khurasani ajwane	*
43.	<i>Ipomoea mauritiana</i> / <i>Ipomoea digitata</i>	Giant potato	*
44.	<i>Ipomoea petaloidea</i> Choisy	Vrddhadaruka	*
45.	<i>Ipomoea turpethum</i> R. Br.	Trivrit	12,898
46.	<i>Kaempferia galanga</i>	Indian crocus	22,070
47.	<i>Litsea glutinosa</i>	Listea	*
48.	<i>Lepidum sativum</i> Linn.	Chandrasur	11,906
49.	<i>Mucuna prurita</i> Linn.	Konch	9,680
50.	<i>Ocimum sanctum</i> Linn.	Tulsi	14,520
51.	<i>Oryza sativa</i> cv Njavara	Scented rice	*
52.	<i>Phyllanthus amarus</i> Schum & Thonn.	Bhumi amlaki	13,310
53.	<i>Piper longum</i> Linn.	Pippali	30,250
54.	<i>Plantago ovata</i>	Isabgol	11,664
55.	<i>Pluchea lanceolata</i> (DC) CB Clark.	Rasna	*
56.	<i>Plumbago rosea</i>	Leadwort	*
57.	<i>Pseudarthria viscida</i>	Moovila	*
58.	<i>Psoralea corylifolia</i> L.	Bakuchi	7,260
59.	<i>Rubia cordifolia</i> Linn	Manjishtha	48,400
60.	<i>Sida cordifolia</i>	Flannel weed	11,616
61.	<i>Solanum anguivi</i>	Katheli-badhi	1,176
62.	<i>Solanum nigrum</i> Linn.	Makoy	12,100
63.	<i>Stevia rebaudiana</i>	Madhukari	1,51,250
64.	<i>Tephrosia purpurea</i> Pers	Pawad, Dhamasia, Kalika, Plihari, Sharapunkha, Purple Tephrosia, Wild Indigo, Empali	12,003
65.	<i>Terminalia arjuna</i> (Roxb.) Wt. & Arn.	Arjuna	21,780
66.	<i>Terminalia bellirica</i> Gaertn.	Behera	19,360
67.	<i>Terminalia chebula</i> Retz.	Harad	19,360
68.	<i>Tinospora cordifolia</i> Miers	Giloe	13,310
69.	<i>Tragia involucrate</i>	Barhanta	*

70.	<i>Trichosanthes cucumerina</i>	Patol panchang	*
71.	<i>Valeriana hardwickii</i>	Tagar-ganth, Nihani	*
72.	<i>Vitex nigundo</i>	Nirgundi	12,100
73.	<i>Vetiveria zizanoides</i>	Khas- khas grass	*
74.	<i>Withania somnifera</i> (Linn.) Dunal	Ashwagandha	12,100
75.	<i>Woodfordia fruticosa</i> Kurz.	Dhataki	*

### Plants eligible for 50% subsidy

#	Botanical Name	Common Name	Base cost per acre
76.	<i>Abies webbiana</i> Lindl	Talispatra	*
77.	<i>Acacia catechu</i>	Katha	8,615
78.	<i>Aegle marmelos</i> (Linn) Corr.	Beal	19,360
79.	<i>Albizzia lebbek</i> Benth.	Shirish	18,150
80.	<i>Alstonia scholaris</i> R.Br.	Satvin, Saptaparna	16,141
81.	<i>Altingia excelsa</i> Noronha	Silarasa	*
82.	<i>Anacyclus pyrethrum</i> DC.	Akarkara	*
83.	<i>Atropa belledona</i>	Atropa	30,250
84.	<i>Coscinum fenastratum</i> (Gertn) Colebr.	Peela Chandan	*
85.	<i>Crataeva nurvala</i> Buch – Ham.	Varun	8,615
86.	<i>Curculigo orchoides</i>	Kali Musali, Musli shiya	*
87.	<i>Dactylorhiza hatagirea hatagirea</i> (D.Don) Soo	Salampanja	*
88.	<i>Desmodium gangeticum</i>	Sarivan	21,780
89.	<i>Gloriosa superba</i> Linn.	Kalihari	66,550
90.	<i>Glycyrrhiza glabra</i> Linn.	Licorice Roots, Mulethi	48,400
91.	<i>Gmelina arborea</i> Linn.	Gambhari	21,780
92.	<i>Hippophae rhamnoides</i> Linn.	Seabuckthorn	24,200
93.	<i>Inula racemosa</i> Hk. f.	Pushkarmool	18,295
94.	<i>Juniperus cumminis</i> Linn	Hapushal, Hanber, Juniper, Bethar, Hapusha	*
95.	<i>Jurinea macrocephala</i> Benth.	Dhoop, Jari-dhoop	*
96.	<i>Leptadenia reticulata</i> (Retz) Wt. & Arn.	Jivanti	30,250
97.	<i>Mesua ferrea</i> Linn.	Nagakeshar	8,615
98.	<i>Onosma hispidum</i> Wall.ex Don	Ratanjot	*
99.	<i>Panax pseudo-ginseng</i>	Ginseng	*
100.	<i>Parmelia perlata</i> Ach.	Saileya	*
101.	<i>Piper cubeba</i> Linn. f.	Kababchini	*
102.	<i>Plumbago zeylanica</i> Linn.	Chitrak	14,520
103.	<i>Pueraria tuberosa</i> DC.	Vidarikand	24,200
104.	<i>Premna integrifolia</i> Linn.	Agnimanth	12,100
105.	<i>Pterocarpus marsupium</i> Roxb.	Beejasar	26,620
106.	<i>Rauwolfia serpentina</i> Benth. ex Kurz	Sarggandha	30,250
107.	<i>Rheum emodi</i>	Archa	98,010
108.	<i>Salacia reticulata, Salacia oblongata</i>	Saptachakra (Saptarangi)	*
109.	<i>Saraca asoca</i> (Roxb.) De Wilde	Ashok	30,250

110.	<i>Smilax china</i> Linn.	Hrddhatri (Madhu snuhi), Chini Lokhandi	24,200
111.	<i>Stereospermum suaveolens</i> DC.	Patala	8,905
112.	<i>Symplocos racemosa</i> Roxb	Lodh/Pathani	*
113.	<i>Tacomella undulate</i> (Sm.) Seem.	Rohitak	8,615
114.	<i>Tricopus zeylanicus</i>	Jeevani	*
115.	<i>Tylophora asthmatica</i>	Damabooti	*
116.	<i>Taxus wallichiana</i> Linn.	Thuner, Talispatra	*
117.	<i>Urarea picta</i> (Jacq.) Desv.	Prishnaparni	20,086
118.	<i>Valeriana wallichii</i>	Indian Valerian	29,040
119.	<i>Vateria indica</i>	Mandadhupa, Dupa	*
120.	<i>Viola Odorata</i>	Bunafsha	*
121.	<i>Zanthoxylum alatum</i>	Timoor	14,520

### Plants eligible for 75% subsidy

#	Botanical Name	Common Name	Remark
122.	<i>Aconitum ferox</i> Wall./ <i>A. balfourii</i>	Vatsnabh	38,927
123.	<i>Aconitum chasmanthum</i> Stapf	Vatsnabh(API)	*
124.	<i>Aconitum heterophyllum</i> Wall. ex Royle	Atees	53,240
125.	<i>Aquilaria agallocha</i> Roxb.	Agar	16,141
126.	<i>Berberis aristata</i> DC.	Daruhaldi	30,250
127.	<i>Commiphora wightii</i> (Arn.) Bhandari	Guggal	77,440
128.	<i>Coptis teeta</i> Wall.	Mamira	*
129.	<i>Ferula foetida</i> Regel.	Hing	*
130.	<i>Gentiana kurroo</i> Royle	Trayamana	*
131.	<i>Mappia foetida</i> Miers.	Ghanera	*
132.	<i>Nardostachys jatamansi</i> DC.	Jatamansi	98,010
133.	<i>Oroxylum indicum</i> Vent.	Syonaka	21,780
134.	<i>Picrorhiza kurroa</i> Benth. ex Royle	Kutki	54,450
135.	<i>Podophyllum hexandrum</i> Royle.	Bankakri, podophyllum	Indian 48,400
136.	<i>Polygonatum cirrhifolium</i> Wall.	Mahameda	*
137.	<i>Pterocarpus santalinus</i>	Raktachandan, sanders	Red 27,346
138.	<i>Santalum album</i> Linn.	Chandan	23,570
139.	<i>Saussurea costus</i> C.B. Clarke	Kuth, Kustha	42,350
140.	<i>Swertia chirata</i> Buch-Ham	Chirata, Charayatah	39,930

#### Note:

\* Base cost to be considered and approved by NAM Directorate.