

GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

LOK SABHA
UNSTARRED QUESTION No.479
TO BE ANSWERED ON 03.12.2025

Rajiv Gandhi Centre for Biotechnology led Tribal Heritage Project

479. Smt. Priyanka Gandhi Vadra:

Will the Minister of SCIENCE AND TECHNOLOGY

be pleased to state:

- (a) the details of traditional crop varieties documented in Kerala under the Rajiv Gandhi Centre for Biotechnology-led Tribal Heritage Project, district-wise;
- (b) the details of traditional crop varieties documented in Wayanad district and the details of those for which genetic profiling is underway has been completed;
- (c) the details of sites where field gene banks have been established in Wayanad under the project, and the criteria used for varietal selection;
- (d) the details of the aspects of community participation and involvement in the said project;
- (e) whether the participating farmers or community groups have received any remuneration, incentives or benefit-sharing support and if so, the details thereof; and
- (f) the other steps being taken by the Government to ensure conservation and promotion of traditional varieties of paddy, pepper and other crops?

ANSWER

MINISTER OF STATE (INDEPENDENT CHARGE) FOR THE MINISTRY OF SCIENCE & TECHNOLOGY (DR. JITENDRA SINGH)

(a) The Tribal Heritage Project, is led by Rajiv Gandhi Centre for Biotechnology (RGCB) - an Institute of Biotechnology Research and Innovation Council (BRIC), Department of Biotechnology, Government of India. BRIC-RGCB with the grant-in-aid support from Department of Science and Technology (DST) under its Science Heritage Research Initiative (SHRI) has been able to document 26 varieties of *Dioscorea*, 27 varieties of taro, 14 varieties of cassava, 5 varieties of jackfruit, 24 varieties of black pepper, 37 varieties of banana and 41 varieties of rice. The district-wise list is provided as Annexure I.

(b) The details of traditional crop varieties collected from Wayanad and genetic profiling completed is given at Annexure –II.

(c) The Field gene banks established in Wayanad for traditional paddy varieties are located in Makkimala, Thalapuzha Panchayath and Peechangode in Vellamunda Panchayath, in the Mananthavadi Taluk, while another field gene bank established in Nambikolly, Nenmeni Panchayath, Sultan Bathery Taluk. Additionally, a conservation plot cum field gene bank for wild tubers and bananas were established in Nellarachal, Ambalavayal Panchayath in Sultan Bathery Taluk.

Only traditional landraces, which are diminishing from the mainstream cultivation in paddy, yams and tubers, and banana, were selected for the establishment of the field genebank and conservation plots.

(d) The project activities—including the documentation of traditional land races of rice, tubers, and fruits utilized by tribal communities, the promotion and conservation of wild edibles through nursery establishments, and the creation of community enterprises based on traditional skills and knowledge—were carried out with the active involvement of tribal communities in the targeted districts of Idukki, Wayanad, and Thiruvananthapuram. The documentation of traditional land races was conducted in 56 tribal settlements across 12 blocks within these districts, involving interviews with 130 tribal informants from 10 different communities.

The establishment of community enterprises rooted in traditional skills and local bio-resources, Self Help Groups and Societies were formed in tribal colonies. Twenty such community enterprises were equipped with essential infrastructure, tools and machineries, skill enhancement programs, and market linkage assistance. These enterprises focuses on various areas, including the nursery and sale of wild edibles, ethnic food production and value addition, medicinal plant processing, non-timber forest produce processing, lemongrass oil extraction, production of fixed oils from wild sources, and the application of ethnic medical practices.

(e) To establish the field gene bank for traditional rice and a conservation cum demonstration plot for wild tubers and bananas, farmer groups received support for labor costs related to field preparation, as well as payments for procuring necessary consumables such as seeds and manure. Additionally, the income generated during harvesting was shared among Self Help Group (SHG) members after setting aside a seed fund for the next cropping season. Community enterprises focused on non-farming activities, such as ethnic food processing, medicinal plant processing, and wild oil extraction, were provided with work sheds and machinery, along with initial consumable support to facilitate their operations. The ongoing management of these units relies on revolving funds generated from their activities.

(f) BRIC-RGCB under the Science Heritage Research Initiative (SHRI) program, has established a 7.2-hectare Field Gene Bank for traditional paddy varieties in Wayanad District, alongside three Conservation and Demonstration Plots and nurseries for wild edibles. These efforts involve tribal communities groups, including Nellara Pattika Vargha Karshakasangham in Wayanad, Agasthya SHG in Thiruvananthapuram, and Karuthaponnu SHG in Idukki, which also operates a nursery for traditional black pepper. These initiatives aimed to conserve and utilize traditional varieties while serving as educational tools to promote awareness about wild edibles, sustainable harvesting practices, and their cultural significance through community outreach events.

Annexure-I

The District wise list of Dioscorea varieties documented under Tribal Heritage project by BRIC-RGCB

Sl. No.	Wayanad	Idukki	Thiruvananthapuram
1.	Chora Kachil (<i>Dioscorea alata</i>)	Chora Kachil (<i>Dioscorea alata</i>)	Chora Kachil (<i>Dioscorea alata</i>)
2	Bharani Kachil (<i>Dioscorea alata</i>)	Orange Kachil (<i>Dioscorea alata</i>)	Kattu Kachil (<i>Dioscorea alata</i>)
3	Kattu Kachil (<i>Dioscorea alata</i>)	Palvalli=Kachil (<i>Dioscorea alata</i>)	Van Kizhangu (<i>Dioscorea esculenta</i>)
4	Van Kizhangu (<i>Dioscorea esculenta</i>)	Kezhaykka Kachil (<i>Dioscorea alata</i>)	Nooran (<i>Dioscorea pentaphylla</i>)
5	Nooran (<i>Dioscorea pentaphylla</i>)	Aadhivasi Kachil (<i>Dioscorea alata</i>)	Kaduvakkayyan Kachil (<i>Dioscorea alata</i>)
6	Kaduvakkayyan Kachil (<i>Dioscorea alata</i>)	Kattu Kachil (<i>Dioscorea alata</i>)	Adathappu (<i>Dioscorea bulbifera</i>)
7	Adathappu (<i>Dioscorea bulbifera</i>)	Nooran (<i>Dioscorea pentaphylla</i>)	Mullan Kizhangu (<i>Dioscorea esculenta</i>)
8	Mullan Kizhangu (<i>Dioscorea esculenta</i>)	Kaduvakkayyan Kachil (<i>Dioscorea alata</i>)	Kattu Adathappu (<i>Dioscorea bulbifera</i>)
9	Neela Kachil (<i>Dioscorea alata</i>)	Adathappu (<i>Dioscorea bulbifera</i>)	Thettam (<i>Dioscorea oppositifolia</i>)
10	Kattu Adathappu (<i>Dioscorea bulbifera</i>)	Mullan Kizhangu (<i>Dioscorea esculenta</i>)	Neendikachil (<i>Dioscorea alata</i>)
11	Venni Kizhangu (<i>Dioscorea hispida</i>)	Chavan Kizhangu (<i>Dioscorea tomentosa</i>)	Inji Kachil (<i>Dioscorea alata</i>)

12	Kaattu Kizhangu (<i>Dioscorea wallichii</i>)	Kaattu Kizhangu (<i>Dioscorea wallichii</i>)	Kaattu Kizhangu (<i>Dioscorea wallichii</i>)
13	Cherukizhangu (<i>Dioscorea esculenta</i>)	Manthal (<i>Dioscorea</i> <i>sps</i>)	Kappa Kachil (<i>Dioscorea</i> <i>alata</i>)
14	Thettam (<i>Dioscorea</i> <i>oppositifolia</i>)	Thettam (<i>Dioscorea</i> <i>oppositifolia</i>)	Quintal Kachil (<i>Dioscorea</i> <i>alata</i>)
15	Neendikachil (<i>Dioscorea</i> <i>alata</i>)	Kattu Adathappu (<i>Dioscorea bulbifera</i>)	Undakachil (<i>Dioscorea</i> <i>alata</i>)
16	Inji Kachil (<i>Dioscorea</i> <i>alata</i>) Pannikkachil (<i>Dioscorea</i> <i>alata</i>)	Muttakachil (<i>Dioscorea</i> <i>alata</i>)	Vennikkizhang (<i>Dioscorea</i> <i>homiltonii</i>)
17	Mogappan (<i>Dioscorea</i> <i>wallichii</i>)	Thnan Kachil (<i>Dioscorea alata</i>)	Cherukizhangu (<i>Dioscorea esculenta</i>)
18	Kuppunthi (<i>Dioscorea</i> <i>alata</i>)	Velangal (<i>Dioscorea</i> <i>spp</i>)	Van Kizhangu (<i>Dioscorea</i> <i>esculenta</i>)
19	Kappa Kachil (<i>Dioscorea alata</i>)	Undakachil (<i>Dioscorea</i> <i>alata</i>)	
20	Quintal Kachil (<i>Dioscorea alata</i>)	Vennikkizhang (<i>Dioscorea homiltonii</i>)	
21	Vennikkizhang (<i>Dioscorea homiltonii</i>)	Cherukizhangu (<i>Dioscorea esculenta</i>)	
22	Undakachil (<i>Dioscorea</i> <i>alata</i>)	Van Kizhangu (<i>Dioscorea esculenta</i>)	
23	Sugandhakachil (<i>Dioscorea alata</i>)		
24	Kodikachil (<i>Dioscorea</i> <i>alata</i>)		
25	Cheramadayan (<i>Diocorea alata</i>)		
26	Arikizhang (<i>Dioscorea</i>		

	<i>alata</i>)		
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The District wise list of Taro varieties documented under Tribal Heritage project by BRIC-RGCB

Sl. No.	Wayanad	Idukki	Thiruvananthapuram
1	Vettu Chembu (<i>Colocasia esculenta</i>)	Vettu Chembu (<i>Colocasia esculenta</i>)	Vettu Chembu (<i>Colocasia esculenta</i>)
2	Anakomban (<i>Colocasia esculenta</i>)	Paal chembu (<i>Xanthosoma sagittifolium</i>)	Paal chembu (<i>Xanthosoma sagittifolium</i>)
3	Paal chembu (<i>Xanthosoma sagittifolium</i>)	Kula Chembu (<i>Colocasia Esculenta</i>)	Makkalepotti (<i>Colocasia esculenta</i>)
4	Arattupuzha Kannan (<i>Colocasia esculenta</i>)	Araya Chembu Thada Chembu (<i>Colocasia esculenta</i>)	Thamarakannan Chembu (<i>Colocasia esculenta</i>)
5	Neychembu (<i>Colocasia esculenta</i>)	Podi Chembu(<i>Colocasia esculenta</i>)	Choriyan Chembu (<i>Colocasia esculenta</i>)
6	Makkalepotti (<i>Colocasia esculenta</i>)	Motta Chembu (<i>Colocasia esculenta</i>)	Kuzhinirayan Chembu (<i>Colocasia esculenta</i>)
7	Nanachembu (<i>Colocasia esculenta</i>)	Chemban Chembu (<i>Colocasia esculenta</i>)	Kannan chembu (<i>Colocasia esculenta</i>)
8	Upperichembu type 2 Cheerachembu (<i>Colocasia esculenta</i>)	Kotta Chembu (<i>Colocasia esculenta</i>)	
9	Maran Chembu or Iyya Chembu (<i>Alocasia</i>	Makkalepotti (<i>Colocasia</i>	

	<i>macrorrhizos)</i>	<i>esculenta)</i>	
10	Thamarakannan Chembu (<i>Colocasia esculenta</i>)	Thamarakannan Chembu (<i>Colocasia esculenta</i>)	
11	Kappachembu (<i>Colocasia esculenta</i>)	Choriyan Chembu (<i>Colocasia esculenta</i>)	
12	Cheera chembu type (<i>Colocasia gigantean</i>)	Kuzhinirayan Chembu (<i>Colocasia esculenta</i>)	
13	Pindalan Chembu (<i>Colocasia esculenta</i>)	Kannan chembu (<i>Colocasia esculenta</i>)	
14	Kudavazha Chembu (<i>Colocasia esculenta</i>)	Karichembu/Neelachembu (<i>Colocasia esculenta</i>)	
15	Valan chembu (<i>Colocasia esculenta</i>)		
16	Mukthakeshi (<i>Colocasia esculenta</i>)		
17	Kannan chembu (<i>Colocasia esculenta</i>)		
18	Karichembu/Neelachembu (<i>Colocasia esculenta</i>)		
19	Cheruchembu (<i>Colocasia esculenta</i>)		
20	Chuvanna Chembu (<i>Colocasia esculenta</i>)		
21	Vella Chembu/Cheera Chembu (<i>Colocasia esculenta</i>)		
22	Kattu Chembu/Veli Chembu (<i>Colocasia esculenta</i>)		
23	Kudamalaran Chembu (<i>Colocasia esculenta</i>)		
24	Karutha Kannan Chembu		

	(<i>Colocasia esculenta</i>)		
25	Aattu Kannan Chembu (<i>Colocasia esculenta</i>)		
26	Choriyan Chembu (<i>Colocasia esculenta</i>)		
27	Kuzhinirayan Chembu (<i>Colocasia esculenta</i>)		

The District wise list of Cassava varieties documented under Tribal Heritage project by BRIC-RGCB

Sl. No	Wayanad	Idukki	Thiruvananthapuram
1.	Quintal Kappa 1 (<i>Manihot esculenta</i>)	Kantharippadappan (<i>Manihot esculenta</i>)	Aarumasa Kappa (<i>Manihot esculenta</i>)
2	Malabar Vella (<i>Manihot esculenta</i>)	Karuthathandan (<i>Manihot esculenta</i>)	Ambakkadan (<i>Manihot esculenta</i>)
3	Aarumasa Kappa (<i>Manihot esculenta</i>)	Curryveppu Kappa (<i>Manihot esculenta</i>)	Curryveppu Kappa (<i>Manihot esculenta</i>)
4	Eetha kappa (<i>Manihot esculenta</i>)	Malabar Vella (<i>Manihot esculenta</i>)	Malabar Vella (<i>Manihot esculenta</i>)
5	Ambakkadan (<i>Manihot esculenta</i>)	Quintal Kappa 1 (<i>Manihot esculenta</i>)	Ramanthala Kappa (<i>Manihot esculenta</i>)
6	Kochulahannan (<i>Manihot esculenta</i>)	Ramanthala Kappa (<i>Manihot esculenta</i>)	
7	Silcon kappa (<i>Manihot esculenta</i>)	Pambakuda Kappa (<i>Manihot esculenta</i>)	
8		Aarumasa Kappa (<i>Manihot esculenta</i>)	
9		Eetha kappa (<i>Manihot esculenta</i>)	

10		Nalumasa Kappa (<i>Manihot esculenta</i>)	
11		Rotti kappa (<i>Manihot esculenta</i>)	
12		Violet Kappa (<i>Manihot esculenta</i>)	
13		Silcon kappa (<i>Manihot esculenta</i>)	
14		Ambakkadan (<i>Manihot esculenta</i>)	

The District wise list of Jackfruit documented under Tribal Heritage project by BRIC-RGCB

Sl. No	Wayanad	Idukki	Thiruvananthapuram
1.	Varikka (<i>Artocarpus heterophyllus</i>)	Varikka (<i>Artocarpus heterophyllus</i>)	Varikka (<i>Artocarpus heterophyllus</i>)
2	Koozha (<i>Artocarpus heterophyllus</i>)	Koozha (<i>Artocarpus heterophyllus</i>)	Koozha (<i>Artocarpus heterophyllus</i>)
3	Then Varikka (<i>Artocarpus heterophyllus</i>)	Then Varikka (<i>Artocarpus heterophyllus</i>)	Then Varikka (<i>Artocarpus heterophyllus</i>)
4	Navarikka (<i>Artocarpus heterophyllus</i>)	Navarikka (<i>Artocarpus heterophyllus</i>)	Navarikka (<i>Artocarpus heterophyllus</i>)
5	Unda Chakka (<i>Artocarpus heterophyllus</i>)	Unda Chakka (<i>Artocarpus heterophyllus</i>)	Unda Chakka (<i>Artocarpus heterophyllus</i>)

The District wise list of Black pepper documented under Tribal Heritage project by BRIC-RGCB

Sl. No	Wayanad	Idukki	Thiruvananthapuram
1	Karimunda (<i>Piper nigrum</i>)	Thottamundi (<i>Piper nigrum</i>)	Kottanadan (<i>Piper nigrum</i>)
2	Kuthira Vali (<i>Piper nigrum</i>)	Neelamundi (<i>Piper nigrum</i>)	Thottamundi (<i>Piper nigrum</i>)
3	Balankotta (<i>Piper nigrum</i>)	Maran Pedathi (<i>Piper nigrum</i>)	Karimunda (<i>Piper nigrum</i>)
4	Uthirankotta (<i>Piper nigrum</i>)	Vatta Mundi (<i>Piper nigrum</i>)	Kuthira Vali (<i>Piper nigrum</i>)
5	Wayanadan chettan (<i>Piper nigrum</i>)	Vella Mundi (<i>Piper nigrum</i>)	Vella Mundi (<i>Piper nigrum</i>)
6		Karimunda (<i>Piper nigrum</i>)	Thulam Mundi (<i>Piper nigrum</i>)
7		Kallugal Kodi (<i>Piper nigrum</i>)	
8		Manja Mundi (<i>Piper nigrum</i>)	
9		Kathira Vali (<i>Piper nigrum</i>)	
10		Thulam Mundi (<i>Piper nigrum</i>)	
11		Mala Mundi (<i>Piper nigrum</i>)	
12		Jeeraka Munda (<i>Piper nigrum</i>)	
13		Kochu Kanikkaran (<i>Piper nigrum</i>)	
14		Ambbara Mundi (<i>Piper nigrum</i>)	
15		Valiya Karimunda (<i>Piper nigrum</i>)	
16		Kumbha Kodi (<i>Piper</i>	

		<i>nigrum</i>)	
17		Nayara Kodi (<i>Piper nigrum</i>)	
18		Zebra Mundi (<i>Piper nigrum</i>)	
19		Aana Cheviyan (<i>Piper nigrum</i>)	
20		Arimundi (<i>Piper nigrum</i>)	
21		Arakulam Mundi (<i>Piper nigrum</i>)	
22		Vellanamban (<i>Piper nigrum</i>)	
23		Irumaniyan (<i>Piper nigrum</i>)	
24		Chenganoor Kodi (<i>Piper nigrum</i>)	

The District wise list of Banana varieties documented under Tribal Heritage project by BRIC-RGCB

Sl. No.	Wayanad	Idukki	Thiruvananthapuram
1.	Vannan/Mannan (<i>Musa sps</i>)	Vannan/Mannan (<i>Musa sps</i>)	Njalipoovan(<i>Musa sps</i>)
2	Adaykka Poovan (<i>Musa sps</i>)	Pachachingan(<i>Musa sps</i>)	Chenkadhali
3	Aattunenthra (<i>Musa sps</i>)		Charapoovan
4	Chundilla Nenthran (<i>Musa sps</i>)	Chundilla Nenthran (<i>Musa sps</i>)	Nadan Poovan/Podipoovan
5	Manjappoovan(<i>Musa sps</i>)	Njalipoovan(<i>Musa sps</i>)	Sugandhi (<i>Musa sps</i>)
6	Chundillakannan (<i>Musa sps</i>)	Chenkadhali	<i>Robusta</i> (<i>Musa sps</i>)
7	Malampoovan (<i>Musa sps</i>)	Pooja Kadhali(<i>Musa sps</i>)	<i>Palemkodan</i> (<i>Musa sps</i>)
8	Charappovan (<i>Musa sps</i>)	Charapoovan	
9	Nadan Poovan/Podipoovan	Nadan Poovan/Podipoovan	
10	Wayanadan	Sugandhi (<i>Musa sps</i>)	

	Kalluvazha(<i>Musa sps</i>)		
11	Amruthasagar(<i>Musa sps</i>)	<i>Robusta (Musa sps)</i>	
12	Poonkalli(<i>Musa sps</i>)	<i>Palemkodan (Musa sps)</i>	
13	Adukkkan (<i>Musa sps</i>)		
14	Chavanippovan(<i>Musa sps</i>)		
15	Mysore Ethan (<i>Musa sps</i>)		
16	Karpooravalli (<i>Musa sps</i>)		
17	Manja Vazha (<i>Musa sps</i>)		
18	Velipadathi(<i>Musa sps</i>)		
19	Kali (<i>Musa sps</i>)		
20	Monthan (<i>Musa sps</i>)		
21	Vettan (<i>Musa sps</i>)		
22	Chemmati (<i>Musa sps</i>)		
23	Kunnhan (<i>musa sps</i>)		
24	Njalipoovan(<i>Musa sps</i>)		
25	Chenkadhali (<i>Musa sps</i>)		
26	Pooja Kadhali(<i>Musa sps</i>)		
27	Sugandhi (<i>Musa sps</i>)		
28	<i>Robusta (Musa sps)</i>		
29	<i>Palemkodan (Musa sps)</i>		
30	Eranadan padathi		
31	Thenkali		
32	Kallankadali		
33	Peyan		
34	Perumpadali		
35	Kunnancheruth		
36	Penangu		
37	English Poovan		

Traditional rice varieties documented from Wayanad under Tribal Heritage project by BRIC-RGCB

Sl. No.	Rice varieties	Sl. No.	Rice varieties
1	Arimudan	29	Njavara
2	Kothandan	30	Onamottan
3	Rethasaali	31	Kodakan Thondi
4	Adukkkan	32	Jeerakasala
5	Annamundan	33	Kuruva
6	Ayiramkana	34	Kullan Thondi
7	Adukkkan (II)	35	Kanali
8	Njavara	36	Kuruvatti
9	Idavaka	37	Chuvanna Chitteni

10	Thondi Kayama		38	Jeeraka Chembavu
11	Gandhakasala		39	Mullan Channa
12	Kunjootti		40	Koduveliyan
13	Kurumatta		41	Marathondi
14	Veliyan			
15	Ayirammeni			
16	Kavungin poothala			
17	Mallikuruva			
18	Mullankayama			
19	Mullanpunja/okka punja			
20	Palthondi			
21	Thonnuranthondi			
22	Chomala			
23	Cheruthondi			
24	Ayiramkana			
25	Chennellu			
26	Kalladiyaran			
27	Njavara			
28	Thavalakkannan			

Annexure –II

The details of traditional crop varieties collected from Wayanad and conducted genetic profiling at BRIC-RGCB.

1. Land races of Dioscorea

Sl. No.	Land races of Dioscorea
<i>Dioscorea alata</i>	
1	Sugandhakachil
2	Undakachil
3	Neendikachil
4	Mattukachil
5	Kaduvakayyankachil
6	Kappakachil
7	Injikachil
8	Chorakachil
9	Quintalkachil
10	Thoonankachil
<i>Dioscorea esculenta</i>	
11	Mukkizhangu
12	Cherukizhangu (small)
13	Cherukizhangu (large)
14	Vankizhangu
15	Nanakizhangu
16	Erachikachil
17	Adathappu
18	Pattikachil
<i>Dioscorea oppositifolia</i>	
19	Kanjiravallikizhangu
20	Naarakizhangu
<i>Dioscorea wallichii</i>	
21	Mogappan
<i>Dioscorea pentaphylla</i>	
22	Nooran

2. Traditional rice varieties

Sl. No.	Rice varieties	Sl. No.	Rice varieties
1	Arimudan	29	Njavara
2	Kothandan	30	Onamottan
3	Rethasaali	31	Kodakan Thondi
4	Adukkann	32	Jeerakasala

5	Annamundan	33	Kuruva
6	Ayiramkana	34	Kullan Thondi
7	Adukkana (II)	35	Kanali
8	Njavara	36	Kuruvatti
9	Idavaka	37	Chuvanna Chitteni
10	Thondi Kayama	38	Jeeraka Chembavu
11	Gandhakasala	39	Mullan Channa
12	Kunjootti	40	Koduveliyan
13	Kurumatta	41	Marathondi
14	Veliyan		
15	Ayirammeni		
16	Kavungin poothala		
17	Mallikuruva		
18	Mullankayama		
19	Mullanpunja/okka punja		
20	Palthondi		
21	Thonnuranthondi		
22	Chomala		
23	Cheruthondi		
24	Ayiramkana		
25	Chennellu		
26	Kalladiyaran		
27	Njavara		
28	Thavalakkannan		

3. Banana varieties

Sl. No.	Wayanad
1.	Chundillakannan (<i>Musa sps</i>)
2	Karpooravalli (<i>Musa sps</i>)
3	Monthan (<i>Musa sps</i>)
4	Vettan (<i>Musa sps</i>)
5	Chemmati (<i>Musa sps</i>)
6	Kunnhan (<i>musa sps</i>)
7	Eranadan padathi (<i>Musa sps</i>)
8	Thenkali (<i>Musa sps</i>)
9	Kallankadali (<i>Musa sps</i>)
10	Peyan (<i>Musa sps</i>)
11	Perumpadali (<i>Musa sps</i>)
12	Kunnancheruth (<i>Musa sps</i>)

13	Penangu (<i>Musa sps</i>)
14	English Poovan (<i>Musa sps</i>)