CALL FOR PROPOSALS UNDER THE SCHEMES BIODIVERSITY RESEARCH PROGRAMMES 2023-24
KERALA STATE BIODIVERSITY BOARD

The Kerala State Biodiversity Board is inviting proposals to develop *ex-situ* conservatories of threatened plant species (List enclosed) as botanical garden, nurseries or as seed bank for an essential backup solution and also to propagate effectively to develop conservatories of these plant species.

Objectives

The project aims to develop *ex-situ* bio conservatories of threatened species in association with R & D institutes based on different themes. The target species significant for the *ex-situ* plant conservation may include plants which are rare in a certain area or plants that are currently threatened with extinction at local, regional or global level i.e. taxa characterized as "Near Threatened", "Vulnerable", "Endangered" or "Critically Endangered" according to the IUCN (2001) criteria. The expected outcome of the project is to conserve the red listed plants of Kerala in different districts which will naturally develop into a human made forest through natural succession over the course of time.

Eligibility

R&D Institutions, Universities, Academic institutions and other reputed Governmental and non-governmental organizations interested to develop plant nurseries and conservatories within their land and also have experience in the relevant field.

Project duration

One years

Project Title

***EX-SITU* CONSERVATORIES OF RED LISTED SPECIES**

Project components

KSBB invites Expression of interest from various institutions/NGO's for implementing the project at field level. The interested firms should submit a detailed proposal with work plan for the project in the prescribed format prepared by the Principal Investigator (PI) should be endorsed by the Head of the Institution.

The project proposal shall address the four components mentioned below:

The proposal should contain proper methodology to carry out the work at field level with suitable techniques for (1) cultivation, (2) propagation and (3) conservation of the prioritised species. The organization is expected to (4) develop *ex-situ* conservatories of threatened species in their campus/land with long term conservation strategies.

Project location

The project area shall include all the districts of Kerala State

Financial assistance

The budget for the project ranges from Rs. 2 to 5 lakhs per organization/institutions for the project period of one year. The fund includes all the infrastructures for implementing the project on field with Institutional overhead to a maximum of 10% of project cost. All the requirement/facilities should be met with the given grant.

Mode of applying and selection

Three hard copies of the detailed proposals in the prescribed format shall be communicated to the Member Secretary, Kerala State Biodiversity Board not later than 31.08.2023. The proposals shall be shortlisted and the shortlisted proposals will be assessed by the R&D Committee constituted. The Principal Investigators with feasible and complete proposals will be invited for making presentations before the Committee. No TA/DA is admissible for the presentation. Detailed guidelines are available in the website of KSBB.

APPLICATION FORM

I. General details

1. Project title
2. Project duration (months)
3. Total cost

4. Name and Designation of Principal Investigator (PI)
    a. Official address (E-mail id, Fax No., Office Ph. No., Residence Ph. No. & Mobile No.)
    b. Date of entry in the present service.
    c. Date of superannuation.
    d. Experience of PI in the concerned field (List of publication of PI in the relevant field- show separately those published in UGC CARE journal).
    e. Brief biodata of PI

5. Name and designation of Co-investigators
    a. Official address (E-mail id, Fax No., Office Ph. No., Residence Ph. No. & Mobile No.).
    b. Date of entry in the present service.
    c. Date of superannuation.
    d. Experience in the concerned field (List of publication in the relevant field -show separately those published in UGC CARE journal).
    e. Brief biodata of Co-PI

6. Institution where work will be carried out (Address, Telephone No., Fax No.)
7. Date of establishment of institute
8. Type of institution:
9. Why do you think you and your institution is capable for doing the work.

II. Technical Information

1. Project Title.
2. Abstract (one page).
3. Detailed project proposal
    a. Objectives
    b. Project Area

c. Detailed Methodology
d. Work plan including time schedule & chart
e. Anticipated Outputs/Outcomes of the project
f. Deliverables with time frame
g. Budget

III. Synergy with other projects of the institute

LIST OF PRIORITY RET SPECIES FOR PROPOGATION AND CONSERVATION

SL.NO.	NAME OF SPECIES	FAMILY	THREAT CATEGORY
1	*Strobilanthes ciliatus* (Nees) Bremek.	Acanthaceae	Vulnerable
2	*Crinum malabaricum* Lekhak & S.R.Yadav	Amaryllidaceae	Critically Endangered
3	*Buchanania barberi* Gamble	Anacardiaceae	Critically Endangered
4	*Nothopegia aureo-fulva* Bedd. ex Hook. f.	Anacardiaceae	Critically Endangered
5	*Nothopegia beddomei* Gamble var. *wynaadica* Ellis & Chandra.	Anacardiaceae	Endangered
6	*Buchanania lanceolata* Wight	Anacardiaceae	Vulnerable
7	*Goniothalamus rhynchantherus* Dunn	Annonaceae	Endangered
8	*Orophea thomsonii* Bedd.	Annonaceae	Endangered
9	*Polyalthia rufescens* Hook. f. & Thoms. in Hook. f.	Annonaceae	Endangered
10	*Polyalthia shendurunii* Basha & Sasidh.	Annonaceae	Endangered
11	*Popowia beddomeana* Hook. f. & Thoms. In Hook. f.	Annonaceae	Endangered
12	*Goniothalamus salicinus* Hook.f. & Thomson	Annonaceae	Vulnerable
13	*Miliusa nilagirica* Bedd.	Annonaceae	Vulnerable
14	*Mitrephora grandiflora* Bedd.	Annonaceae	Vulnerable
15	*Orophea uniflora* Hook. f. & Thomson	Annonaceae	Vulnerable
16	*Hydrocotyle conferta* Wight	Apiaceae	Endangered
17	*Anodendron rhinosporum* Thwaites	Apocynaceae	Critically Endangered
18	*Decalepis salicifolia* (Bedd. ex Hook. f.)	Apocynaceae	Critically Endangered
19	*Utleria salicifolia* Bedd. ex Hook. f.	Apocynaceae	Critically Endangered
20	*Decalepis hamiltonii* Wight & Arn.	Apocynaceae	Endangered
21	*Gymnema khandalense* Santapau	Apocynaceae	Endangered
22	*Ilex gardneriana* Wight	Aquifoliaceae	Critically Endangered
23	*Heptapleurum bourdillonii* (Gamble) Lowry & G.M.Plunkett	Araliaceae	Endangered
24	*Aralia malabarica* Bedd.	Araliaceae	Vulnerable
25	*Arenga wightii* Griff.	Arecaceae	Vulnerable
26	*Bentinckia condapanna* Berry & Roxb.	Arecaceae	Vulnerable
27	*Anaphalis beddomei* Hook. f.	Asteraceae	Vulnerable
28	*Anaphalis leptophylla* (DC.) DC.	Asteraceae	Vulnerable
29	*Anaphalis wightiana* DC.	Asteraceae	Vulnerable
30	*Notonia shevaroyensis* Fyson	Asteraceae	Vulnerable
31	*Berberis nilghiriensis* Ahrendt	Berberidaceae	Critically Endangered
32	*Tecomella undulata* (Sm.) Seem.	Bignoniaceae	Endangered
33	*Humboldtia unijuga* Bedd. var. trijuga (Joseph & Chandras.)	Caesalpiniaceae	Critically Endangered
34	*Dialium travancoricum* Bourd.	Caesalpiniaceae	Critically Endangered
35	*Cynometra beddomei* Prain	Caesalpiniaceae	Endangered
36	*Cynometra travancorica* Bedd.	Caesalpiniaceae	Endangered
37	*Humboldtia bourdillonii* Prain	Caesalpiniaceae	Endangered

38	*Humboldtia unijuga* Bedd. var. *unijuga*	Caesalpiniaceae	Endangered
39	*Humboldtia laurifolia* Vahl	Caesalpiniaceae	Vulnerable
40	*Saraca asoca* (Roxb.) de Wilde	Caesalpiniaceae	Vulnerable
41	*Euonymus paniculatus* Wight ex Lawson in Hook. f.	Celastraceae	Endangered
42	*Euonymus serratifolius* Bedd.	Celastraceae	Endangered
43	*Microtropis densiflora* Wight	Celastraceae	Endangered
44	*Salacia brunoniana* Wight & Arn.	Celastraceae	Endangered
45	*Euonymus angulatus* Wight	Celastraceae	Vulnerable
46	*Glyptopetalum lawsonii* Gamble	Celastraceae	Vulnerable
47	*Salacia oblonga* Wall. ex Wight & Arn.	Celastraceae, Hippocrateaceae	Vulnerable
48	*Atuna indica* (Bedd.) Kosterm.	Chrysobalanaceae	Endangered
49	*Atuna travancorica* (Bedd.) Kosterm.	Chrysobalanaceae	Endangered
50	*Agasthiyamalaia pauciflora* (Bedd.)	Clusiaceae	Critically Endangered
51	*Garcinia imberti* Bourd.	Clusiaceae	Critically Endangered
52	*Garcinia travancorica* Bedd.	Clusiaceae	Critically Endangered
53	*Garcinia rubro-echinata* Kosterm.	Clusiaceae	Endangered
54	*Garcinia wightii* Anders. in Hook. f.	Clusiaceae	Endangered
55	*Calophyllum apetalum* Willd.	Clusiaceae	Vulnerable
56	*Garcinia indica* (Thouars) Choisy.	Clusiaceae	Vulnerable
57	*Murdannia lanceolata* (Wight) Kammathy	Commelinaceae	Vulnerable
58	*Fimbristylis hirsutifolia* Govind.	Cyperaceae	Critically Endangered
59	*Fimbristylis doliiformis* Govind.	Cyperaceae	Endangered
60	*Fuirena swamyi* Govind.	Cyperaceae	Vulnerable
61	*Dipterocarpus bourdillonii* Brandis in Hook.	Dipterocarpaceae	Critically Endangered
62	*Hopea erosa* (Bedd.) van Sloot.	Dipterocarpaceae	Critically Endangered
63	*Hopea jacobi* Fischer	Dipterocarpaceae	Critically Endangered
64	*Vateria macrocarpa* B. L. Gupta	Dipterocarpaceae	Critically Endangered
65	*Dipterocarpus indicus* Bedd.	Dipterocarpaceae	Endangered
66	*Hopea glabra* Wight & Arn.	Dipterocarpaceae	Endangered
67	*Hopea racophloea* Dyer in Hook. f.	Dipterocarpaceae	Endangered
68	*Hopea utilis* (Bedd.) Bole	Dipterocarpaceae	Endangered
69	*Vatica chinensis* L.	Dipterocarpaceae	Endangered
70	*Hopea ponga* (Dennst.) Mabb.	Dipterocarpaceae	Vulnerable
71	*Shorea roxburghii* G. Don	Dipterocarpaceae	Vulnerable
72	*Vateria indica* L.	Dipterocarpaceae	Vulnerable
73	*Diospyros crumenata* Thwaites	Ebenaceae	Endangered
74	*Diospyros atrata* (Thwaites) Alston	Ebenaceae	Vulnerable
75	*Diospyros barberi* Ramas.	Ebenaceae	Vulnerable
76	*Diospyros candolleana* Wight	Ebenaceae	Vulnerable
77	*Diospyros hirsuta* L.f.	Ebenaceae	Vulnerable
78	*Diospyros trichophylla* Alston in Trimen	Ebenaceae	Vulnerable
79	*Diospyros paniculata* Dalz.	Ebenaceae	Vulnerable
80	*Elaeocarpus gaussenii* Weibel	Elaeocarpaceae	Critically Endangered
81	*Elaeocarpus recurvatus* Corner	Elaeocarpaceae	Vulnerable

82	*Elaeocarpus venustus* Bedd.	Elaeocarpaceae	Vulnerable
83	*Eriocaulon sivarajanii* R.Ansari & N.P.Balakr.	Eriocaulaceae	Critically Endangered
84	*Eriocaulon anshiense* Punekar, Malpure & Lakshmin.	Eriocaulaceae	Endangered
85	*Eriocaulon dalzellii* Körn.	Eriocaulaceae	Endangered
86	*Eriocaulon richardianum* (Fyson) R.Ansari & N.P.Balakr.	Eriocaulaceae	Endangered
87	*Eriocaulon pectinatum* Ruhland	Eriocaulaceae	Vulnerable
88	*Erythroxylum obtusifolium* (Wight) Hook. f.	Erythroxylaceae	Vulnerable
89	*Dimorphocalyx glabellus* var. *lawianus* (Hook.f.) Chakrab. & N.P.Balakr.	Euphorbiaceae	Critically Endangered
90	*Dimorphocalyx beddomei* (Benth.) Airy Shaw	Euphorbiaceae	Endangered
91	*Drypetes gardneri* (Thw.) Pax & Hoffmann	Euphorbiaceae	Endangered
92	*Euphorbia santapaui* Henry	Euphorbiaceae	Endangered
93	*Glochidion zeylanicum* (Gaertn.) A. Juss. var. *tomentosum* (Dalz.) Chakrab. & Gangop.	Euphorbiaceae	Endangered
94	*Drypetes wightii* (Hook. f.) Pax & Hoffm.	Euphorbiaceae	Vulnerable
95	*Euphorbia vajravelui* Binoj. & Balakr.	Euphorbiaceae	Vulnerable
96	*Glochidion bourdillonii* Gamble	Euphorbiaceae	Vulnerable
97	*Glochidion hohenackeri* (Muell.-Arg) Bedd. var. *johnstonei* (Hook. f.) Chakrab. & Gangop.	Euphorbiaceae	Vulnerable
98	*Mallotus atrovirens* Muell.-Arg.	Euphorbiaceae	Vulnerable
99	*Phyllanthus indofischeri* Bennet	Euphorbiaceae	Vulnerable
100	*Pseudoglochidion anamalayanum* Gamble	Euphorbiaceae, Phyllanthaceae	Critically Endangered
101	*Glochidion ellipticum* var. *ralphii* Gamble	Euphorbiaceae, Phyllanthaceae	Endangered
102	*Cynometra bourdillonii* Gamble	Fabaceae	Endangered
103	*Humboldtia vahliana* Wight	Fabaceae	Endangered
104	*Prioria pinnata* (Roxb. ex DC.) Breteler	Fabaceae	Endangered
105	*Pterocarpus indicus* Willd.	Fabaceae	Endangered
106	*Pterocarpus macrocarpus* Kurz	Fabaceae	Endangered
107	*Pterocarpus santalinus* L.f.	Fabaceae	Endangered
108	*Acacia bolei* R.P.Subhedar	Fabaceae	Critically Endangered
109	*Dalbergia congesta* Graham ex Wight & Arn.	Fabaceae	Endangered
110	*Sophora wightii* Baker in Hook. f.	Fabaceae	Endangered
111	*Acacia ferruginea* DC.	Fabaceae	Vulnerable
112	*Archidendron bigeminum* (L.)I.C.Nielsen	Fabaceae	Vulnerable
113	*Senegalia ferruginea* (DC.) Pedley	Fabaceae	Vulnerable
114	*Dalbergia latifolia* Roxb.	Fabaceae	Vulnerable
115	*Eleiotis rottleri* Wight & Arn.	Fabaceae	Vulnerable
116	*Pericopsis mooniana* Thwaites	Fabaceae	Vulnerable
117	*Pterocarpus dalbergioides* DC.	Fabaceae	Vulnerable
118	*Rhynchosia heynei* Wight & Arn.	Fabaceae	Vulnerable
119	*Homalium jainii* Henry & Swamin.	Flacourtiaceae	Endangered
120	*Casearia wynadensis* Bedd.	Flacourtiaceae	Vulnerable
121	*Homalium travancoricum* Bedd.	Flacourtiaceae	Vulnerable
122	*Hydnocarpus macrocarpa* (Bedd.) Warb.	Flacourtiaceae	Vulnerable

123	*Hydnocarpus pentandra* (Buch. -Ham.) Oken	Flacourtiaceae	Vulnerable
124	*Chloroxylon swietenia* DC.	Flindersiaceae, Rutaceae	Vulnerable
125	*Actinodaphne lanata* Meisn.	Lauraceae	Critically Endangered
126	*Cinnamomum chemungianum* Mohanan & Henry	Lauraceae	Critically Endangered
127	*Cinnamomum travancoricum* Gamble	Lauraceae	Critically Endangered
128	*Cinnamomum walaiwarense* Kosterm.	Lauraceae	Critically Endangered
129	*Actinodaphne bourneae* Gamble	Lauraceae	Endangered
130	*Actinodaphne campanulata* Hook. f. var. *obtusa* Gamble	Lauraceae	Endangered
131	*Actinodaphne salicina* Meisner in DC.	Lauraceae	Endangered
132	*Cinnamomum filipedicellatum* Kosterm.	Lauraceae	Endangered
133	*Cinnamomum gamblei* Geethakum., Deepu & Pandur.	Lauraceae	Endangered
134	*Cinnamomum heyneanum* Nees	Lauraceae	Endangered
135	*Cinnamomum keralaense* Kosterm	Lauraceae	Endangered
136	*Cinnamomum perrottetii* Meisner in DC.	Lauraceae	Endangered
137	*Cinnamomum riparium* Gamble	Lauraceae	Endangered
138	*Cinnamomum wightii* Meisner	Lauraceae	Endangered
139	*Cryptocarya anamalayana* Gamble	Lauraceae	Endangered
140	*Litsea beddomei* Hook. f.	Lauraceae	Endangered
141	*Actinodaphne campanulata* Hook. f.	Lauraceae	Vulnerable
142	*Actinodaphne lawsonii* Gamble	Lauraceae	Vulnerable
143	*Cinnamomum macrocarpum* Hook. f.	Lauraceae	Vulnerable
144	*Cinnamomum sulphuratum* Nees	Lauraceae	Vulnerable
145	*Cryptocarya beddomei* Gamble	Lauraceae	Vulnerable
146	*Cryptocarya stocksii* Meisn.	Lauraceae	Vulnerable
147	*Litsea ghatica* Sald.	Lauraceae	Vulnerable
148	*Litsea keralana* Kosterm.	Lauraceae	Vulnerable
149	*Litsea mysorensis* Gamble	Lauraceae	Vulnerable
150	*Litsea nigrescens* Gamble	Lauraceae	Vulnerable
151	*Litsea travancorica* Gamble	Lauraceae	Vulnerable
152	*Neolitsea fischeri* Gamble	Lauraceae	Vulnerable
153	*Utricularia cecilii* P. Taylor	Lentibulariaceae	Endangered
154	*Utricularia albocaerulea* Dalzell	Lentibulariaceae	Vulnerable
155	*Utricularia wightiana* P. Taylor	Lentibulariaceae	Vulnerable
156	*Lindernia manilaliana* V.V. Sivarajan	Linderniaceae, Scrophulariaceae	Endangered
157	*Rotala malabarica* A.K. Pradeep, K.T. Joseph & V.V. Sivarajan	Lythraceae	Critically Endangered
158	*Rotala cookii* K.T. Joseph & V.V. Sivarajan	Lythraceae	Endangered
159	*Rotala ritchiei* (Clarke) Koehne	Lythraceae	Endangered
160	*Magnolia nilagirica* (Zenker) Figlar	Magnoliaceae	Vulnerable
161	*Julostylis polyandra* Ravi & Anil Kumar	Malvaceae	Endangered
162	*Gossypium hirsutum* L.	Malvaceae	Vulnerable
163	*Memecylon sisparense* Gamble	Melastomataceae	Critically Endangered
164	*Memecylon flavescens* Gamble	Melastomataceae	Endangered

165	*Memecylon subramanii* Henry	Melastomataceae	Endangered
166	*Memecylon clarkeanum* Cogn.	Melastomataceae	Vulnerable
167	*Memecylon grande* Blume	Melastomataceae	Vulnerable
168	*Memecylon lawsonii* Gamble	Melastomataceae	Vulnerable
169	*Memecylon rostratum* Thw.	Melastomataceae	Vulnerable
170	*Memecylon royenii* Blume	Melastomataceae	Vulnerable
171	*Memecylon sylvaticum* Thwaites	Melastomataceae	Vulnerable
172	*Dysoxylum malabaricum* Bedd. ex C. DC.	Meliaceae	Endangered
173	*Aglaia malabarica* Sasidh.	Meliaceae	Critically Endangered
174	*Dysoxylum beddomei* Hiern in Hook. f.	Meliaceae	Endangered
175	*Aglaia apiocarpa* (Thw.) Hiern in Hook. f.	Meliaceae	Vulnerable
176	*Aglaia bourdillonii* Gamble	Meliaceae	Vulnerable
177	*Aglaia perviridis* Hiern in Hook. f.	Meliaceae	Vulnerable
178	*Dysoxylum ficiforme* (Wight) Gamble	Meliaceae	Vulnerable
179	*Swietenia macrophylla* G. King	Meliaceae	Vulnerable
180	*Nymphoides macrospermum* Vasudevan	Menyanthaceae	Critically Endangered
181	*Nymphoides sivarajanii* K.T. Joseph	Menyanthaceae	Critically Endangered
182	*Nymphoides krishnakesara* K.T. Joseph & V.V. Sivarajan	Menyanthaceae	Endangered
183	*Myristica beddomei* subsp. *sphaerocarpa* WJde Wilde	Myristicaceae	Endangered
184	*Myristica beddomei* subsp. *ustulata* W.J.J.O. de Wilde	Myristicaceae	Endangered
185	*Myristica magnifica* Bedd.	Myristicaceae	Endangered
186	*Gymnacranthera canarica* (Bedd. ex King) Warb. |	Myristicaceae	Vulnerable
187	*Myristica dactyloides* Gaertn.	Myristicaceae	Vulnerable
188	*Myristica malabarica* Lam.	Myristicaceae	Vulnerable
189	*Eugenia argentea* Bedd.	Myrtaceae	Critically Endangered
190	*Meteoromyrtus wynaadensis* (Bedd.) Gamble	Myrtaceae	Critically Endangered
191	*Syzygium courtallensis* (Gamble) Alston in Trimen	Myrtaceae	Critically Endangered
192	*Syzygium palghatense* Gamble	Myrtaceae	Critically Endangered
193	*Syzygium travancoricum* Gamble	Myrtaceae	Critically Endangered
194	*Eugenia cotinifolia* subsp. *codyensis* (Munro ex Wight)	Myrtaceae	Endangered
195	*Eugenia discifera* Gamble	Myrtaceae	Endangered
196	*Eugenia floccosa* Bedd.	Myrtaceae	Endangered
197	*Eugenia indica* (Wight) Chithra in Nair & Henry	Myrtaceae	Endangered
198	*Eugenia mabaeoides* Wight	Myrtaceae	Endangered
199	*Eugenia singampattiana* Bedd.	Myrtaceae	Endangered
200	*Eugenia terpnophylla* Thwaites	Myrtaceae	Endangered
201	*Syzygium beddomei* (Duthie) Chithra	Myrtaceae	Endangered
202	*Syzygium bourdillonii* (Gamble) Rathkr. & Nair	Myrtaceae	Endangered
203	*Syzygium caryophyllatum* (L.) Alston	Myrtaceae	Endangered
204	*Syzygium chavaran* (Bourd.) Gamble	Myrtaceae	Endangered
205	*Syzygium microphyllum* Gamble	Myrtaceae	Endangered
206	*Syzygium myhendrae* (Bedd. ex Brandis) Gamble	Myrtaceae	Endangered
207	*Syzygium parameswaranii* Mohanan & Henry	Myrtaceae	Endangered
208	*Syzygium stocksii* (Duthie) Gamble	Myrtaceae	Endangered

209	*Eugenia calcadensis* Bedd.	Myrtaceae	Vulnerable
210	*Eugenia rottleriana* Wight & Arn.	Myrtaceae	Vulnerable
211	*Syzygium benthamianum* (Wight ex Duthie) Gamble	Myrtaceae	Vulnerable
212	*Syzygium densiflorum* Wall. ex Wight & Arn.	Myrtaceae	Vulnerable
213	*Syzygium makul*	Myrtaceae	Vulnerable
214	*Syzygium neesianum* Arn.	Myrtaceae	Vulnerable
215	*Syzygium occidentalis* (Bourd.) Gandhi in Sald.	Myrtaceae	Vulnerable
216	*Syzygium rama-varmae* (Bourd.) Chithra in Nair & Henry	Myrtaceae	Vulnerable
217	*Anacolosa densiflora* Bedd.	Olacaceae	Endangered
218	*Jasminum azoricum* L.	Oleaceae	Critically Endangered
219	*Chionanthus leprocarpa* var. *courtallensis* (Bedd.)	Oleaceae	Endangered
220	*Chionanthus mala-elengi* subsp. *linocieroides* (Wight)	Oleaceae	Endangered
221	*Paphiopedilum druryi* (Bedd.) Pfitz.	Orchidaceae	Critically Endangered
222	*Vanilla planifolia* Andrews	Orchidaceae	Endangered
223	*Taprobanea spathulata* (L.) Christenson	Orchidaceae	Vulnerable
224	*Aporosa fusiformis* Thwaites	Phyllanthaceae	Critically Endangered
225	*Aporosa bourdillonii* Stapf	Phyllanthaceae	Endangered
226	*Cleistanthus travancorensis* Jabl.	Phyllanthaceae	Endangered
227	*Aporosa cardiosperma* (Gaertn.) Merr.	Phyllanthaceae	Vulnerable
228	*Cleistanthus collinus* (Roxb.) Benth. ex Hook.f.	Phyllanthaceae	Vulnerable
229	*Cleistanthus malabaricus* Muell.-Arg.	Phyllanthaceae	Vulnerable
230	*Piper barberi* Gamble	Piperaceae	Endangered
231	*Isachne veldkampii* K.G.Bhat & Nagendran	Poaceae	Critically Endangered
232	*Ischaemum jayachandranii* R.Ansari, V.S.Ramach. & Sreek.	Poaceae	Critically Endangered
233	*Dimeria hohenackeri* Hochst. ex Miq.	Poaceae	Endangered
234	*Ischaemum vembanadense* R.B.Patil & D'Cruz	Poaceae	Endangered
235	*Limnopoa meeboldii* (Fischer) C. E. Hubb. in Hook.	Poaceae	Endangered
236	*Oryza officinalis* Wall. ex Watt	Poaceae	Vulnerable
237	*Farmeria metzgerioides* (Trim.) Willis	Podostemaceae	Vulnerable
238	*Farmeria indica* Willis	Podostemaceae	Endangered
239	*Farmeria metzgerioides* (Trim.) Willis	Podostemaceae	Endangered
240	*Podostemum munnarense* (Nagendran & Arekal) C.J Mathew & V.K. Satheesh	Podostemaceae	Endangered
241	*Polypleurum filifolium* (Ramam. & Joseph) Nagendran et al.	Podostemaceae	Vulnerable
242	*Willisia selaginoides* (Bedd.)Warming exWillis	Podostemaceae	Vulnerable
243	*Ardisia amplexicaulis* Bedd.	Primulaceae	Endangered
244	*Ardisia blatteri* Gamble	Primulaceae	Endangered
245	*Ardisia sonchifolia* Mez.	Primulaceae	Endangered
246	*Maesa velutina* Mez	Primulaceae	Endangered
247	*Photinia serratifolia* var. *tomentosa* (Gamble) Vivek. & B.V.Shetty	Rosaceae	Endangered
248	*Prunus ceylanica* (Wight) Miq.	Rosaceae	Endangered
249	*Ixora johnsonii* Hook. f.	Rubiaceae	Critically Endangered
250	*Byrsophyllum tetrandrum* (Bedd.) Hook. f. ex Bedd.	Rubiaceae	Endangered

251	*Coffea arabica* L.	Rubiaceae	Endangered
252	*Ixora lawsonii* Gamble	Rubiaceae	Endangered
253	*Nostolachma crassifolia* (Gamble) Deb & Lahiri	Rubiaceae	Endangered
254	*Psychotria beddomei* Deb & Gangop.	Rubiaceae	Endangered
255	*Psychotria globicephala* Gamble	Rubiaceae	Endangered
256	*Psychotria macrocarpa* Hook. f.	Rubiaceae	Endangered
257	*Psydrax ficiformis* (Hook. f.) Bridson	Rubiaceae	Endangered
258	*Psydrax pergracile* (Bourd.) Ridsid.	Rubiaceae	Endangered
259	*Tarenna agumbensis* Sundararagh.	Rubiaceae	Endangered
260	*Tarenna monosperma* (Wight & Arn.) Raju	Rubiaceae	Endangered
261	*Wendlandia angustifolia* Wight ex Hook.f.	Rubiaceae	Endangered
262	*Wendlandia bicuspidata* Wight & Arn. |	Rubiaceae	Endangered
263	*Canthium neilgherrense* Wight	Rubiaceae	Vulnerable
264	*Coffea travancorensis* Wight & Arn.	Rubiaceae	Vulnerable
265	*Ixora malabarica* (Dennst.) Mabb.	Rubiaceae	Vulnerable
266	*Lasianthus capitulatus* Wight	Rubiaceae	Vulnerable
267	*Lasianthus ciliatus* Wight	Rubiaceae	Vulnerable
268	*Lasianthus rostratus* Wight	Rubiaceae	Vulnerable
269	*Ochreinauclea missionis* (Wall. ex G. Don) Ridsle	Rubiaceae	Vulnerable
270	*Saprosma fragrans* Bedd.	Rubiaceae	Vulnerable
271	*Tarenna nilagirica* (Bedd.) Bremek.	Rubiaceae	Vulnerable
272	*Melicope indica* Wight	Rutaceae	Endangered
273	*Xylosma latifolium* J. Hk. & Thoms.	Salicaceae	Endangered
274	*Santalum album* L.	Santalaceae	Vulnerable
275	*Madhuca diplostemon* (C. B. Clarke) P. Royen	Sapotaceae	Critically Endangered
276	*Madhuca insignis* (Radlk.) H. J. Lam	Sapotaceae	Critically Endangered
277	*Isonandra stocksii* C.B.Clarke	Sapotaceae	Endangered
278	*Isonandra villosa* Wight	Sapotaceae	Endangered
279	*Madhuca bourdillonii* (Gamble) H. J. Lam	Sapotaceae	Endangered
280	*Palaquium ellipticum* (Dalzell) Baill.	Sapotaceae	Endangered
281	*Palaquium ravii* Sasidh. & Vink	Sapotaceae	Endangered
282	*Madhuca fulva* (Thwaites) J.F.Macbr.	Sapotaceae	Vulnerable
283	*Palaquium bourdillonii* Brandis	Sapotaceae	Vulnerable
284	*Eriolaena lushingtonii* Dunn	Sterculiaceae	Vulnerable
285	*Pterospermum reticulatum* Wight & Arn.	Sterculiaceae	Vulnerable
286	*Symplocos anamallayana* Bedd.	Symplocaceae	Endangered
287	*Symplocos barberi* Gamble	Symplocaceae	Endangered
288	*Symplocos nairii* Henry et al.	Symplocaceae	Endangered
289	*Symplocos oligandra* Bedd.	Symplocaceae	Endangered
290	*Symplocos pulchra* subsp. *coriacea* Gopalan & Henry	Symplocaceae	Endangered
291	*Symplocos macrocarpa* Wight ex Clarke ssp. Kanarana (Talbot) Nooteb.	Symplocaceae	Vulnerable
292	*Valeriana leschenaultii* DC.	Valerianaceae	Critically Endangered
293	*Cayratia pedata* (Lam.) A. Juss. ex Gagnep. var. *glabra* Gamble	Vitaceae	Critically Endangered

294	*Cayratia pedata* (Wall.) Gagnep.	Vitaceae	Vulnerable
295	*Curcuma vamana* M.Sabu & Mangaly	Zingiberaceae	Critically Endangered
296	*Curcuma coriacea* Mangaly & M.Sabu	Zingiberaceae	Endangered
297	*Curcuma pseudomontana* Graham	Zingiberaceae	Vulnerable

(क) वैज्ञानिक अनुसंधान;
(ख) हरबेरियम और वैज्ञानिक और शैक्षिक संस्थाओं का संग्रहालय;
(ग) प्रचार; और
(घ) कोई अन्य वैज्ञानिक अन्वेषण ।

2. सबधित राज्य जैवविविधता बोर्ड निम्नलिखित आरम्भ या संचालन करेंगे:-

(i) समग्र जानकारी के लिए, अधिसूचित प्रजातियों के सभी पहलुओं का अध्ययन करना ।
(ii) स्वस्थाने और स्थान बाह्य संरक्षण और पुन:स्थापन के प्रयोजनार्थ, अधिसूचित प्रजातियों का प्रचार; और
(iii) जागरूकता कार्यक्रम चलाना और वन विभाग के कार्मिकों, जैवविविधता प्रबंधन समितियों, पर्यावरणीय पर्यावटन कार्यक्रमों और वनवासियों तथा जनजातियों को अधिसूचित प्रजातियों के संबंध में शैक्षिक सामग्री उपलब्ध कराना ।

[फा. सं. 28-12/2008-सी एस-III]

ए. के. गोयल, संयुक्त सचिव

MINISTRY OF ENVIRONMENT AND FORESTS

NOTIFICATION

New Delhi, the 15th April, 2009

S.O. 997(E).—In exercise of powers conferred by section 38 of the Biological Diversity Act, 2002 (18 of 2003), the Central Government, in consultation with the Government of Kerala, hereby notifies the species of plants and animals which are on the verge of extinction, as listed in column (2) of the Table given below, and prohibit and regulate the collection thereof, subject to the conditions specified in the Annexure to this notification, for the State of Kerala, namely:—

TABLE

Sl.No.	Name of the species
(1)	(2)
	Plants
1.	*Adenosma malabaricum* Hook. f.
2.	*Agasthiyamalaia pauciflora* (Bedd.) S. Rajkumar & Janarth. [=*Poeciloneuron pauciflorum* Bedd.]
3.	*Aglaia malabarica* Sasidh.
4.	*Anacolosa densiflora* Bedd.
5.	*Atuna indica* (Bedd.) Kosterm.
6.	*Calliandra cynometroides* Bedd.
7.	*Cinnamomum travancoricum* Gamble
8.	*Dialium travancoricum* Bedd.
9.	*Dimorphocalyx beddomei* (Benth.) Airy Shaw
10.	*Dipterocarpus bourdilloni* Brandis
11.	*Elaeocarpus venustus* Bedd.
12.	*Garcinia imberti* Bourd.
13.	*Haplothismia exanulata* Airy Shaw
14.	*Humboldtia bourdillonii* Prain
15.	*Humboldtia trijuga* (Joseph & V. Chandras.) Mohanan
16.	*Janakia arvalpathra* Joseph & V.Chandras.

17.	*Madhuca bourdillonii* (Gamble) H.J. Lam.
18.	*Memecylon sisparense* Gamble
19.	*Paphiopedilum druryi* (Bedd.) Stein
20.	*Salacia malabarica* Gamble
21.	*Syzygium palghatense* Gamble
22.	*Syzygium periyarensis* Jomy & Sasidh.
23.	*Toxocarpus beddomei* Gamble
24.	*Toxocarpus palghatensis* Gamble
25.	*Vanda thwaitesii* Hook.f
26.	*Vanda wightii* Rchb.f.
	Animals
1.	*Latidens salimalli, Thonglongya, 1974*
2.	*Viverra civettina,* Blyth, *1862*
3.	*Balaenoptera musculus* (Linneaeus, 1758)
4.	*Dugong dugon* (Muller, 1776)
5.	*Panthera tigris tigris,* Linnaeus, 1758
7.	*Gyps indicus* (Scopoli, 1786)
8.	*Dermochelys coriacea* (Vandelli, 1761)
9.	*Eretmochelys imbricata* (Linnaeus, 1766)
10.	*Fejervarya murthii* Pillai, 1979
11.	*Indirana phrynoderma* (Boulenger, 1882)
12.	*Philautus chalaziodes* (Günther, 1876)
13.	*Pristis zijsron* Bleeker, 1851

Annexure

Condition No. **Conditions**

1. No plant or animal species as notified above shall be collected in live or dead condition by any person except, for purposes mentioned below, with the approval of the concerned State Biodiversity Board; and also in accordance with the provisions of the Indian Forest Act, 1927 (16 of 1927) and the Wild Life (Protection) Act, 1972 (53 of 1972) or the relevant State forest and wildlife legislations, namely:-

   (e) Scientific research;
   (f) Herbarium and museum of scientific and academic institutions;
   (g) Propagation; and
   (h) Any other scientific investigation.

2. The concerned State Biodiversity Board shall initiate or conduct :-

   (iv) studies on all aspects of the notified species for holistic understanding;

   (v) propagation of the notified species for the purpose of *in situ* and *ex situ* conservation and rehabilitation; and

   (vi) awareness programmes and provide educational materials on notified species for forest department personnel, Biodiversity Management Committees, ecotourism programmes, and forest dwellers and tribals.

[F. No. 28 12/2008-CS-III]
A. K. GOYAL, Jt. Secy.