

MINISTRY OF ENVIRONMENT, FOREST, AND CLIMATE CHANGE

NOTIFICATION

New Delhi, the 23rd October, 2023

S.O. 4643(E).—WHEREAS, the Green Credit Rules, 2023 were published in the Gazette of India, Extraordinary, Part II, Section 3, Sub Section (ii), vide S.O. 4458(E), dated the 12th October, 2023.

AND WHEREAS Sub-Section (2) (i) of Section 4 of the Green Credit Rules, 2023 provides for tree plantation as an eligible measures/activities under the Green Credit Programme.

AND WHEREAS Section 5 of the Green Credit Rules, 2023 provides that the methodology for calculating the green credit in respect of any activity undertaken shall be such as may be notified by the Central Government on the recommendation of the Administrator.

AND WHEREAS Section 7 of the Green Credit Rules, 2023 designates the Indian Council of Forestry Research and Education (ICFRE) as the Administrator responsible for the effective implementation of the Green Credit Programme including its management and operation.

AND WHEREAS Sub-Section (3) of Section 7 of the Green Credit Rules, 2023 provides the responsibilities of the Administrator including development of guidelines, processes and procedures for the implementation of the Green Credit Programme under these rules; and development of methodologies, registration process, guidelines and associated measurement, reporting and verification mechanism.

AND NOW, THEREFORE in exercise of the powers conferred by Section 3, Section 6 and Section 25 of the Environment (Protection) Act, 1986 (29 of 1986), and Section 5 of the Green Credit Rules, 2023, the Central Government has now proposed a notification for 'draft Methodology for Tree Plantation based Green Credit' for the information of the public likely to be affected thereby and notice is hereby given that the said notification will be taken into consideration on or after the expiry of a period of 15 days from the date of publication of the draft in the official Gazette;

The objections or suggestions, which may be received from any person with respect to the said Notification within the period specified above, will be taken into consideration by the Central Government;

Objections or suggestions, if any, may be addressed to the Joint Secretary, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh road, New Delhi - 110003, and may be sent to e-mail id: sohsmd-mef@gov.in

Draft Methodology for Tree Plantation based Green Credit are as follows:

S.No.	Project eligibility and verification Parameter	Description of Parameter
1.	Type of Project	Tree plantation (except mangroves)
2.	Project Proponent	Eligible project proponents: All persons and entities including individuals/FPOs/Cooperatives/Forest Management Committees/Sustainable Agricultural Enterprises SHGs/Eco-development committee/Urban and rural local bodies
3.	Site Selection	Any patch of Government/Panchayat/community land/individual land suitable for plantation
4.	Tree specifications	
4a.	Tree species with respect to Agroclimatic zones	<p>New Plantation will be considered as eligible for GCP. Plantation with indigenous tree species will be eligible.</p> <ul style="list-style-type: none"> • Rainfall zone wise species (as per Annexure-1) • Horticultural tree species (as per Annexure-1) • Bamboo species are included
4b.	Minimum number of trees	Plantation of minimum 100 trees is required for qualifying under Tree Plantation based Green Credit
4c.	Density/Spacing at the time of plantation	<p>Density: Minimum 100 trees per hectare and Maximum 1000 trees per hectare shall be planted</p> <p>Details about availability of quality planting material and technical inputs can be accessed from local Forest/Agriculture Government functionaries</p>

5.	Registration	<p>Through Self-Certification:</p> <p>(i) Baseline data - geotagged photo(s) of the proposed location along with list of existing trees and GPS boundary of site(s).</p> <p>(ii) Proposed land should be free of incumbrances- along with land ownership record.</p> <p>(iii) Name, Aadhar, PAN (if required) and bank details of authorized representative along with certificate of registration of the project proponent.</p> <p>(iv) Project proponent need to give commitment to maintain plantation up to 10 years.</p> <p>(v) Undertaking that no natural ecosystems are harmed due to the project.</p> <p>(vi) Geotagged photos(s) of the project activity as in point 7.</p> <p>Self-certified submissions may be subjected to audit and if found misleading, project will be liable for disqualification and punitive action as per Green Credit Rules, 2023.</p>														
6.	Measurement of plants for issue of GCs will be carried as mentioned in point 7 will be based on the following two parameters															
6a.	Survival Percentage	Survival percentage will be calculated based on the number of healthy standing individual plants as compared to initially registered number of plants														
6b	Height/Crown cover	<p>Height or Crown cover will be chosen by the project proponent during certification as an indicator of growth.</p> <p>During each monitoring period, the chosen parameter will be measured on a sampling basis (as per defined protocol) and compared with earlier measurement recorded during previous period.</p> <p>Percentage of trees showing growth will be recorded.</p>														
7.	Calculation of issuance of Green Credit (GC)	<table border="1"> <thead> <tr> <th>Year</th> <th>*Year wise distribution of GCs in percentage</th> <th></th> </tr> </thead> <tbody> <tr> <td>At the end of 1st year of plantation</td> <td>20</td> <td rowspan="5" style="vertical-align: middle;">*For 100 trees, value of GCs to be distributed to eligible applicant for 10 years =100 GCs</td> </tr> <tr> <td>At the end of 3rd year of plantation</td> <td>25</td> </tr> <tr> <td>At the end of 6th year of plantation</td> <td>30</td> </tr> <tr> <td>At the end of 10th year of plantation</td> <td>25</td> </tr> <tr> <td>Total</td> <td>100 percentage</td> </tr> </tbody> </table> <p>Calculation of GCs</p> <p>= Total Number of trees as identified at first certification</p> <p>* Survival Percentage</p> <p>* Percentage of trees showing growth</p> <p>* Percentage of year wise distribution of GCs</p> <p>* Multiplier for rainfall zone</p> <p>List of multiplier for rainfall zones is given in Annexure-1</p>	Year	*Year wise distribution of GCs in percentage		At the end of 1 st year of plantation	20	*For 100 trees, value of GCs to be distributed to eligible applicant for 10 years =100 GCs	At the end of 3 rd year of plantation	25	At the end of 6 th year of plantation	30	At the end of 10 th year of plantation	25	Total	100 percentage
Year	*Year wise distribution of GCs in percentage															
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At the end of 10 th year of plantation	25															
Total	100 percentage															
8.	Verification and issuance of GCs	<ol style="list-style-type: none"> Project proponent to submit geotagged photos(s) of the project activity as per the issuance years in point 7 and populate survival and growth data on the GCP Registry/app. Physical Verification: <ul style="list-style-type: none"> For projects with > 500 to 5000 trees: Existing Government machinery (Revenue, Forest, Agriculture, Irrigation, Municipal, Deptt. field staff) to verify Large projects with > 5001 trees: Third-party verifiers (designated under Green Credit Rules, 2023) 														
9.	Green Credit Programme process	<ol style="list-style-type: none"> Registration of the project proponent Project submission Project listing 														

		4. Project Registration 5. Monitoring and Verification 6. Issuance of Green Credits 7. Transfer and retirement
10.	Any tree plantation projects covered under any existing/new laws, as amended will also get registered under the Green Credit Rules, 2023 and may trade/generate the GCs generated as mandated under these laws/regulations.	

[F. No. HSM-12/24/2023-HSM]

NAMEETA PRASAD, Jt. Secy.

Annexure 1

A. List of Species (Rainfall less than 500mm)			Multiplier for rainfall zone: 1.3	
S.No	STATE	District	Forestry Species	Horticulture Species
1	GUJARAT	Kachchh	<i>Acacia catechu, Acacia leucocephala,</i>	<i>Punica granatum,</i>
2	HARYANA	Bhiwani	<i>Acacia modesta, Acacia nilotica, Acacia senegal, Adina cardifolia, Anogeissus pendula, Anogeissus latifolia, Azadirachta indica, Balunites aegyptiaca, Boswellia serrata, Butea monosperma, Cassia fistula, Commiphora wightii, Creteva adansonii, Dalbergia paniculata, Dalbergia sissoo, Dichrostachys cinerea, Holoptelea integrifolia, Maytenus emarginata, Melia azedarach, Moringa oleifera, Phoenix robusta, Phyllanthus emblica, Pongamia pinnata, Prosopis cineraria, Salvadora oleoides, Sterculia urens, Syzygium cumini, Tamarindus indicus, Tamarix aphylla, Tamarix articulata, Tecomella undulata, Tectona grandis, Terminalia arjuna, Terminalia bellirica, Wrightia tinctoria, Ziziphus mauritiana, Phyllanthus emblica, Azadirachta indica, Salvadora oleoides</i>	<i>Psidium guajava,</i>
3	HARYANA	Fatehabad		<i>Artocarpus heterophyllus, Morus alba, Mangifera indica, Averrhoa carambola, Grewia asiatica, Citrus nobilis, Citrus reticulata, Ziziphus mauritiana, Ficus carica Capparis decidua</i>
4	HARYANA	Hisar		
5	HARYANA	Jind		
6	HARYANA	Sirsra		
7	HARYANA	Charkhi Dadri		
8	PUNJAB	Bathinda		
9	PUNJAB	Faridkot		
10	PUNJAB	Fazilka		
11	PUNJAB	Mansa		
12	PUNJAB	Sri Muktsar Sahib		
13	RAJASTHAN	Ajmer		
14	RAJASTHAN	Barmer		
15	RAJASTHAN	Bikaner		
16	RAJASTHAN	Churu		
17	RAJASTHAN	Sri Ganganagar		
18	RAJASTHAN	Hanumangarh		
19	RAJASTHAN	Jaisalmer		
20	RAJASTHAN	Jalore		
21	RAJASTHAN	Jhunjhunu		
22	RAJASTHAN	Jodhpur West		
23	RAJASTHAN	Nagaur		
24	RAJASTHAN	Pali		
25	RAJASTHAN	Sikar		
26	RAJASTHAN	Anupgarh		
27	RAJASTHAN	Balotra		
28	RAJASTHAN	Beawar		
29	RAJASTHAN	Didwana		
30	RAJASTHAN	Jodhpur East		
31	RAJASTHAN	Kekri		
32	RAJASTHAN	Neem ka Thana		
33	RAJASTHAN	Phalodi		
34	RAJASTHAN	Sanchore		
35	RAJASTHAN	Kuchaman		
36	HIMACHAL PRADESH	Lahul & Spiti	<i>Pinus gerardiana, Juglans regia, Salix fragilis, Salix alba, Prunus armeniaca, Malus domestica, Prunus domestica Taxus wallichiana, Pinus wallichiana, Ficus auriculata, Ephedra gerardiana, Hippophae rhamnoides, Hippophae tibetana, Morus alba, Juniperus indica,</i>	<i>Malus baccata, Prunus communis, Pyrus malus, Prunus dulcis, Prunus armeniaca, Pyrus amygdalus</i>
37	LADAKH	Leh		
38	LADAKH	Kargil		

B. List of Species (Rainfall : 500mm - 1000mm) Multiplier for rainfall zone: 1.2					
S.No	STATE	district	Average Rainfall (mm)	Forestry Species	Horticulture Species
1	ARUNACHAL PRADESH	Tawang	664	<i>Alnus nepalensis, Picea smithiana, Abies pindrow, Cedrus deodara, Taxus wallichiana, Betula utilis Buxus</i>	<i>Prunus armeniaca, Pyrus communis, Citrus jambhiri</i>
2	ARUNACHAL PRADESH	Shi Yomi	965		
3	HIMACHAL PRADESH	Kullu	912		
4	HIMACHAL PRADESH	Kinnaur	653	<i>wallichiana, Tsuga dumosa, Pinus roxburghii, Cupressus torulosa, Illicium griffithii Juniperus squamata,</i>	
5	JAMMU AND KASHMIR	Anantrag	938	<i>Rhododendron arboreum, Terminalia myriocarpa, Juniperus recurva, Abies densa</i>	
6	JAMMU AND KASHMIR	Badgam	971		
7	JAMMU AND KASHMIR	Bandipura	668		
8	JAMMU AND KASHMIR	Baramula	882		
9	JAMMU AND KASHMIR	Ganderbal	797		
10	JAMMU AND KASHMIR	Kishtwar	607		
11	JAMMU AND KASHMIR	Kupwara	889		
12	JAMMU AND KASHMIR	Muzaffarabad	860		
13	JAMMU AND KASHMIR	Pulwama	943		
14	JAMMU AND KASHMIR	Punch	827		
15	JAMMU AND KASHMIR	Srinagar	786		
16	SIKKIM	North	692		

C. List of Species (Rainfall : 500mm - 1000mm) Multiplier for rainfall zone: 1.2					
S.No	STATE	district	Average Rainfall (mm)	Forestry Species	Horticulture Species
1	DADRA & NAGAR HAVELI & DAMAN & DIU	Diu	759	<i>Acacia catechu, Acacia nilotica, Acacia Senegal, Acacia tortilis, Aegle marmelos, Anogeissus pendula, Avicenna officianalis, Azadirachta indica, Balunites aegyptiaca, Bauhinia variegata, Borassus flabifera, Boswellia serrata, Butea monosperma, Capparis deciduas, Commiphora mukul, Commiphora wightii, Cordia dichotoma, Dalbergia paniculata, Grewia tenax, Lagerstroemia speciosa, Maytenus emarginata, Melia azedarach, Phoenix dactylifera, Phyllanthus emblica, Prosopis cineraria, Salvadora oleoides, Shorea robusta, Swietenia</i>	<i>Annona reticulata, Annona squamosa, Artocarpus heterophyllus, Citrus limetta, Citrus maxima, Citrus sinensis, Cocos nucifera, Emblica officinalis, Ficus carica, Ficus palmata, Grewia asiatica, Litchi chinensis, Mangifera indica, Manilkara zapota, Morus alba, Psidium guajava, Punica granatum, Sapindus mukorossi, Ziziphus mauritiana</i>
2	DELHI	South	681		
3	DELHI	Central	677		
4	DELHI	East	706		
5	DELHI	New Delhi	657		
6	DELHI	North	622		
7	DELHI	North East	684		
8	DELHI	North West	621		
9	DELHI	Shahadra	710		
10	DELHI	South West	601		
11	DELHI	West	623		
12	DELHI	South East	693		
13	HARYANA	Ambala	972		
14	HARYANA	Faridabad	666		

15	HARYANA	Rewari	519	<i>mahagoni, Tectona grandis, Terminalia arjuna, Terminalia bellirica, Terminalia chebula, Terminalia tomentosa, Tamarix articulata</i>
16	HARYANA	Gurugram	579	
17	HARYANA	Jhajjar	541	
18	HARYANA	Kaithal	520	
19	HARYANA	Karnal	665	
20	HARYANA	Kurukshetra	724	
21	HARYANA	Mahendragarh	509	
22	HARYANA	Mewat	575	
23	HARYANA	Palwal	592	
24	HARYANA	Panipat	623	
25	HARYANA	Rohtak	512	
26	HARYANA	Sonipat	577	
27	PUNJAB	Amritsar	660	
28	PUNJAB	Barnala	525	
29	PUNJAB	Fatehgarh Sahib	785	
30	PUNJAB	Firozpur	502	
31	PUNJAB	Gurdaspur	845	
32	PUNJAB	Hoshiarpur	972	
33	PUNJAB	Jalandhar	674	
34	PUNJAB	Kapurthala	701	
35	PUNJAB	Ludhiana	670	
36	PUNJAB	Moga	525	
37	PUNJAB	Patiala	690	
38	PUNJAB	Rupnagar	988	
39	PUNJAB	Sangrur	557	
40	PUNJAB	Sas Nagar	959	
41	PUNJAB	Shahid Bhagat Singh	824	
42	PUNJAB	Tarn Taran	598	
43	PUNJAB	Malerkotla	557	
44	GUJARAT	Devbhumi Dwarka	543	
45	GUJARAT	Jamnagar	706	
46	GUJARAT	Bhavnagar	686	
47	GUJARAT	Bharuch	968	
48	GUJARAT	Aravalli	867	
49	GUJARAT	Banas Kantha	596	
50	GUJARAT	Dahod	947	
51	GUJARAT	Mahisagar	941	
52	GUJARAT	Amreli	652	
53	GUJARAT	Rajkot	718	
54	GUJARAT	Surendranagar	616	
55	GUJARAT	Botad	645	
56	GUJARAT	Kheda	905	
57	GUJARAT	Morbi	600	
58	GUJARAT	Ahmadabad	748	
59	GUJARAT	Anand	852	
60	GUJARAT	Gir Somnath	852	
61	GUJARAT	Junagadh	922	
62	GUJARAT	Sabar Kantha	813	
63	GUJARAT	Porbandar	791	
64	GUJARAT	Mahesana	719	
65	GUJARAT	Gandhinagar	788	
66	GUJARAT	Patan	607	
67	RAJASTHAN	Alwar	657	
68	RAJASTHAN	Banswara	957	

69	RAJASTHAN	Baran	893
70	RAJASTHAN	Bharatpur	682
71	RAJASTHAN	Bhilwara	607
72	RAJASTHAN	Bundi	740
73	RAJASTHAN	Chittaurgarh	770
74	RAJASTHAN	Dausa	706
75	RAJASTHAN	Dhaulpur	798
76	RAJASTHAN	Dungarpur	780
77	RAJASTHAN	Jaipur South	571
78	RAJASTHAN	Jhalawar	933
79	RAJASTHAN	Karauli	739
80	RAJASTHAN	Kota	810
81	RAJASTHAN	Pratapgarh	900
82	RAJASTHAN	Raj Samand	589
83	RAJASTHAN	Sawai Madhopur	758
84	RAJASTHAN	Sirohi	699
85	RAJASTHAN	Tonk	626
86	RAJASTHAN	Udaipur	722
87	RAJASTHAN	Deeg	682
88	RAJASTHAN	Dudu	571
89	RAJASTHAN	Jaipur North	571
90	RAJASTHAN	Khairthal	657
91	RAJASTHAN	Kotputli Behror	571
92	RAJASTHAN	Salumbar	722
93	RAJASTHAN	Shahpura	607

D. List of Species (Rainfall : 500mm - 1000mm)			Multiplier for rainfall zone: 1.2		
S.No	STATE	district	Average Rainfall (mm)	Forestry Species	Horticulture Species
1	ANDHRA PRADESH	Chittoor	816	<i>Acacia chundra, Acacia leucophloea, Acacia nilotica, Aegle marmelos, Ailanthes excelsa, Albizia lebbeck, Albizia procera,</i>	<i>Anacardium occidentale, Annona reticulate, Annona squamosa, Artocarpus heterophyllus,</i>
2	ANDHRA PRADESH	Anantapur	549	<i>Anogeissus latifolia, Artocarpus gomezianus,</i>	<i>Averrhoa carambola, Citrus limetta, Citrus nobilis, Citrus reticulate, Citrus sinensis, Cocos nucifera, Emblica officinalis, Ficus carica, Grewia asiatica, Litchi chinensis, Mangifera indica, Manilkara zapota, Morus alba, Prunus persica, Psidium guajava, Punica granatum, Sapindus mukorossi, Ziziphus mauritiana, Citrus sinensis</i>
3	ANDHRA PRADESH	Y S R Kadapa	689	<i>Artocarpus hirsutus, Azadirachta indica, Borassus flabellifer, Boswellia serrata, Bridelia retusa, Bruguiera spp., Buchanania cochinchinensis, Calophyllum elatum, Calophyllum inophyllum, Canarium strictum, Casuarina equisetifolia, Chloroxylon swietenia, Cinnamomum tamala, Cinnamomum zeylanicum, Cleistanthus collinus, Dalbergia latifolia, Dalbergia paniculata, Dalbergia sissoo, Diospyros melanoxylon, Elaeocarpus serratus, Excoecaria agallocha, Garcinia indica, Garcinia spicata, Gardenia gummifera, Gardenia resinifera, Gmelina arborea, Hardwickia binnata, Holarrhena pubescens, Holigarna arnottiana, Holoptelea</i>	
4	ANDHRA PRADESH	Guntur	849		
5	ANDHRA PRADESH	Kurnool	702		
6	ANDHRA PRADESH	Potti Sriramulu Nellore	938		
7	ANDHRA PRADESH	Prakasam	786		
8	KARNATAKA	Bagalkot	744		
9	KARNATAKA	Ballari	630		
10	KARNATAKA	Bengaluru Rural	776		
11	KARNATAKA	Bengaluru Urban	827		
12	KARNATAKA	Bidar	994		
13	KARNATAKA	Chamarajanagar	791		
14	KARNATAKA	Chik Ballapur	666		
15	KARNATAKA	Chitradurga	510		
16	KARNATAKA	Davangere	650		
17	KARNATAKA	Dharwad	904		
18	KARNATAKA	Gadag	698		

19	KARNATAKA	Haveri	887	<i>integrifolia, Hopea wightiana,</i> <i>Lagerstroemia parviflora, Lannea</i>
20	KARNATAKA	Kalaburagi	865	<i>coromandelica, Madhuca longifolia,</i> <i>Magnolia champaca, Melia</i>
21	KARNATAKA	Kolar	682	<i>azedarach, Melia dubia, Mimusops</i>
22	KARNATAKA	Koppal	702	<i>elengi, Morinda pubescens, Moringa</i>
23	KARNATAKA	Mandya	664	<i>oleifera, Morus alba, Myristica</i>
24	KARNATAKA	Mysuru	994	<i>indica, Oroxylum indicum,</i>
25	KARNATAKA	Raichur	673	<i>Petrocarpus marsupium, Phoenix</i>
26	KARNATAKA	Ramanagaram	762	<i>loureiroi, Pongamia pinnata,</i>
27	KARNATAKA	Tumakuru	597	<i>Pterocarpus marsupium,</i>
28	KARNATAKA	Vijayapura	809	<i>Pterocarpus santalinus, Santalum</i>
29	KARNATAKA	Yadgir	729	<i>album, Sapindus emarginatus,</i>
30	TAMIL NADU	Erode	704	<i>Schleichera oleosa, Spondias</i>
31	TAMIL NADU	Pudukkottai	968	<i>pinnata, Sterculia guttata, Sterculia</i>
32	TAMIL NADU	Ramanathapuram	846	<i>urens, Stereospermum chlonoides,</i>
33	TAMIL NADU	Tiruppattur	885	<i>Strychnos nux-vomica, Swietenia</i>
34	TAMIL NADU	Tuticorin	723	<i>mahogany, Tamarindus indica,</i>
35	TAMIL NADU	Vellore	911	<i>Tectona grandis, Terminalia</i>
36	TAMIL NADU	Dharmapuri	900	<i>catappa, Terminalia arjuna,</i>
37	TAMIL NADU	Dindigul	851	<i>Terminalia bellerica, Terminalia</i>
38	TAMIL NADU	Karur	722	<i>chebula, Terminalia tomentosa,</i>
39	TAMIL NADU	Madurai	900	<i>Vateria indica, Wrightia tinctoria,</i>
40	TAMIL NADU	Namakkal	809	<i>Xylia xylocarpa, Toona ciliata</i>
41	TAMIL NADU	Perambalur	953	
42	TAMIL NADU	Salem	887	
43	TAMIL NADU	Sivaganga	967	
44	TAMIL NADU	Tiruchirapalli	841	
45	TAMIL NADU	Tiruppur	687	
46	TAMIL NADU	Virudhunagar	860	
47	TAMIL NADU	Krishnagiri	817	
48	TELANGANA	Hyderabad	797	
49	TELANGANA	Karimnagar	961	
50	TELANGANA	Mahabubnagar	818	
51	TELANGANA	Siddipet	908	
52	TELANGANA	Nalgonda	735	
53	TELANGANA	Rangareddy	750	
54	TELANGANA	Jogulamba Gadwal	716	
55	TELANGANA	Nagarkurnool	731	
56	TELANGANA	Wanaparthy	780	
57	TELANGANA	Narayanpet	802	
58	TELANGANA	Vikarabad	921	
59	TELANGANA	Medchal- malkajgiri	835	
60	TELANGANA	Yadadri Bhuvanagiri	815	
61	TELANGANA	Suryapet	913	
62	TELANGANA	Jangaon	906	
63	TELANGANA	Warangal (urban)	973	
64	TELANGANA	Jagtial	973	
65	TELANGANA	Ranjanna Sircilla	906	
66	MAHARASHTRA	Aurangabad	737	
67	MAHARASHTRA	Jalna	799	
68	MAHARASHTRA	Usmanabad	850	
69	MAHARASHTRA	Washim	966	
70	MAHARASHTRA	Ahamadnagar	634	
71	MAHARASHTRA	Akola	778	
72	MAHARASHTRA	Bid	785	

73	MAHARASHTRA	Buldhana	786
74	MAHARASHTRA	Dhule	680
75	MAHARASHTRA	Jalgaon	786
76	MAHARASHTRA	Latur	953
77	MAHARASHTRA	Nandurbar	896
78	MAHARASHTRA	Parbhani	919
79	MAHARASHTRA	Sangli	877
80	MAHARASHTRA	Solapur	723
81	MADHYA PRADESH	Agar Malwa	944
82	MADHYA PRADESH	Alirajpur	914
83	MADHYA PRADESH	Ashoknagar	994
84	MADHYA PRADESH	Barwani	759
85	MADHYA PRADESH	Bhind	862
86	MADHYA PRADESH	Burhanpur	908
87	MADHYA PRADESH	Datia	934
88	MADHYA PRADESH	Dhar	899
89	MADHYA PRADESH	Guna	962
90	MADHYA PRADESH	Gwalior	952
91	MADHYA PRADESH	Jhabua	937
92	MADHYA PRADESH	Mandsaur	919
93	MADHYA PRADESH	Morena	836
94	MADHYA PRADESH	Nimach	894
95	MADHYA PRADESH	Nivari	876
96	MADHYA PRADESH	Rewa	964
97	MADHYA PRADESH	Sheopur	830
98	MADHYA PRADESH	Shivpuri	909
99	MADHYA PRADESH	Singrauli	964
100	MADHYA PRADESH	Tikamgarh	980
101	MADHYA PRADESH	Ujjain	964
102	MADHYA PRADESH	Khargone	858
103	MADHYA PRADESH	Mauganj	964

E. List of Species (Rainfall : 500mm - 1000mm)			Multiplier for rainfall zone: 1.2		
S.No	STATE	district	Average Rainfall (mm)	Forestry Species	Horticulture Species
1	BIHAR	Arwal	900	<i>Acacia catechu, Acacia leucociphala, Acacia modesta, Acacia nilotica, Acacia nilotica, Aegle marmelos, Ailanthus excelsa, Albizia lebbeck, Azadirachta indica, Bauhinia purpurea, Bauhinia varigeta, Bombax ceiba, Dalbergia sissoo, Ficus racemosa, Ficus virens, Holoptelea integrifolia, Melia azedarach, Moringa oleifera, Phyllanthus emblica, Pongamia pinnata, Prosopis cineraria, Pterocarpus marsupium, Sterculia villosa, Swietenia mahagoni, Syzygium cumini, Tecomella undulata, Terminalia arjuna, Terminalia bellirica, Toona ciliata, Ziziphus mauritiana Madhuca longifolia var. latifolia Schleichera oleosa Spondias pinnata, Boswellia serrata, Diospyros melanoxylon, Buchanania cochinchinensis, Pongamia pinnata, Sterculia urens, Lannea coromandelica,</i>	<i>Annona reticulata, Annona squamosa, Artocarpus heterophyllus, Citrus limetta, Citrus maxima, Citrus sinensis, Emblica officinalis, Ficus carica, Ficus palmata, Grewia asiatica, Litchi chinensis, Mangifera indica, Manilkara zapota, Morus alba, Psidium guajava, Punica granatum, Sapindus mukorossi, Ziziphus mauritiana,</i>
2	BIHAR	Aurangabad	952		
3	BIHAR	Kaimur	949		
4	BIHAR	Bhojpur	946		
5	BIHAR	Buxar	907		
6	BIHAR	Gaya	942		
7	BIHAR	Jahanabad	887		
8	BIHAR	Lakhisarai	975		
9	BIHAR	Muzaffarpur	974		
10	BIHAR	Nalanda	914		
11	BIHAR	Nawada	924		
12	BIHAR	Patna	945		
13	BIHAR	Rohtas	955		
14	BIHAR	Samastipur	992		
15	BIHAR	Sheikhpura	931		
16	BIHAR	Vaishali	954		
17	JHARKHAND	Kodarma	991		
18	JHARKHAND	Garhwa	998		
19	UTTAR PRADESH	Mahoba	840		
20	UTTAR PRADESH	Agra	783		
21	UTTAR PRADESH	Aligarh	734		
22	UTTAR PRADESH	Ambedkarnagar	989		
23	UTTAR PRADESH	Amethi	900		
24	UTTAR PRADESH	Amroha	860		
25	UTTAR PRADESH	Auraiya	820		
26	UTTAR PRADESH	Azamgarh	995		
27	UTTAR PRADESH	Budaun	851		
28	UTTAR PRADESH	Baghpat	719		
29	UTTAR PRADESH	Ballia	959		
30	UTTAR PRADESH	Banda	830		
31	UTTAR PRADESH	Barabanki	933		
32	UTTAR PRADESH	Bareilly	993		
33	UTTAR PRADESH	Bhadohi	870		
34	UTTAR PRADESH	Bulandshahr	771		
35	UTTAR PRADESH	Chandauli	957		
36	UTTAR PRADESH	Chitrakoot	859		
37	UTTAR PRADESH	Ayodhya	979		
38	UTTAR PRADESH	Etah	738		
39	UTTAR PRADESH	Etawah	840		
40	UTTAR PRADESH	Farrukhabad	827		
41	UTTAR PRADESH	Fatehpur	862		
42	UTTAR PRADESH	Firozabad	780		
43	UTTAR PRADESH	Gautambudhnagar	716		
44	UTTAR PRADESH	Gazipur	953		
45	UTTAR PRADESH	Ghaziabad	770		
46	UTTAR PRADESH	Hamirpur	789		
47	UTTAR PRADESH	Hapur	815		
48	UTTAR PRADESH	Hardoi	899		
49	UTTAR PRADESH	Hathras	734		
50	UTTAR PRADESH	Jalaun	868		
51	UTTAR PRADESH	Jaunpur	902		
52	UTTAR PRADESH	Jhansi	875		
53	UTTAR PRADESH	Kannauj	822		

54	UTTAR PRADESH	Kanpur	836
55	UTTAR PRADESH	Kanpur Dehat	806
56	UTTAR PRADESH	Kasganj	743
57	UTTAR PRADESH	Kaushambi	837
58	UTTAR PRADESH	Lucknow	900
59	UTTAR PRADESH	Mainpuri	789
60	UTTAR PRADESH	Mathura	647
61	UTTAR PRADESH	Meerut	851
62	UTTAR PRADESH	Mirzapur	902
63	UTTAR PRADESH	Moradabad	956
64	UTTAR PRADESH	Muzaffarnagar	891
65	UTTAR PRADESH	Pratapgarh	887
66	UTTAR PRADESH	Raibareli	870
67	UTTAR PRADESH	Sambhal	814
68	UTTAR PRADESH	Shahjahanpur	990
69	UTTAR PRADESH	Shamli	792
70	UTTAR PRADESH	Sitapur	963
71	UTTAR PRADESH	Sonbhadra	994
72	UTTAR PRADESH	Sultanpur	927
73	UTTAR PRADESH	Unnao	869
74	UTTAR PRADESH	Varanasi	939
75	UTTAR PRADESH	Prayagraj	833

F. List of Species (Rainfall : 1000mm - 2000mm) Multiplier for rainfall zone: 1.1				
S.No	STATE	District	Forestry Species	Horticulture Species
1	ARUNACHAL PRADES	Anjaw	Abizia lebbeck, Aegle marmelos, Ailanthus excelsa, Albizia chinensis, Albizia odoratissima, Albizia procera, Aquilaria malaccensis, Artocarpus chama, Artocarpus lakoocha, Baccarea ramiflora, Betula alnoides, Bischofia javanica, Bombax ceiba, Bauhinia purpurea, Bauhinia varigeta, Canarium resiniferum, Canarium strictum, Castanopsis spp. Chukrasia tabularis, Cinnamomum tamala, Cordia dichotoma, Dalbergia sissoo, Derris robusta, Dillenia indica, Dipterocarpus retusus, Dipterocarpus turbinatus, Docynia indica, Duabanga grandiflora, Dysoxylum binectariferum, Erythroxylon kunthianum, Garcinia cowa, Garcinia kydia, Garcinia pedunculata, Garcinia tinctoria, Gmelina arborea, Gynocardia odorata, Heteropanax fragrans, Holarrhena antidysenterica, Juglans regia, Kayea assamica, Livistona jenkinsiana, Magnolia champaca, Magnolia gustavi, Melia azadirach, Mesua ferrea, Morus alba, Myrica esculenta, Neolamarckia cadamba, Oroxylum indicum, Phoebe goalparensis, Parkia timoriiana, Pinus kesiya, Premna latifolia, Schima wallichii, Shorea assamica, Stereospermum chelonoides, Syzygium cumunii Tectona grandis, Terminalia arjuna, Terminalia bellarica, Terminalia chebula, Terminalia citrine, Terminalia myriocarpa, Terminalia tomentosa, Toona	Areca catechu, Litchi chinensis, Pyrus communis, Psidium guajava, Artocarpus heterophyllus, Citrus sinensis, Elaeocarpus floribundus, Citrus maxima, Prunus domestica, Pyrus communis, Prunus persica, Averrhoa carambola, Citrus hystrix, Emblica officinalis, Mangifera indica, Moringa oleifera
2	ARUNACHAL PRADES	Dibang Valley		
3	ARUNACHAL PRADES	East Kameng		
4	ARUNACHAL PRADES	Kurung Kumey		
5	ARUNACHAL PRADES	Upper Siang		
6	ARUNACHAL PRADES	Upper Subansiri		
7	ARUNACHAL PRADES	West Kameng		
8	ARUNACHAL PRADES	Lower Subansiri		
9	ARUNACHAL PRADES	Siang		
10	ARUNACHAL PRADES	Kra Daadi		
11	SIKKIM	West Sikkim		
12	SIKKIM	Soreng		
13	ASSAM	Darrang		
14	ASSAM	Dima Hasao		
15	ASSAM	Golaghat		
16	ASSAM	Kamrup Metro		
17	ASSAM	Kamrup Rural		
18	ASSAM	Karbi Anglong		
19	ASSAM	Marigaon		
20	ASSAM	Nagaon		
21	ASSAM	Nalbari		

22	ASSAM	Sonitpur	ciliata, <i>Trewia nudiflora</i>	
23	ASSAM	West Karbi Anglong		
24	MANIPUR	Churachandpur		
25	MANIPUR	Jiribam		
26	MANIPUR	Ukhrul		
27	MANIPUR	Senapati		
28	MANIPUR	Pherzawl		
29	MIZORAM	Champhai		
30	MIZORAM	Aizawl		
31	NAGALAND	Paren		
32	NAGALAND	Phek		
33	NAGALAND	Wokha		
34	NAGALAND	Dimapur		
35	NAGALAND	Kohima		
36	NAGALAND	Kiphire		
37	NAGALAND	Zunheboto		
38	NAGALAND	Chümoukedima		
39	NAGALAND	Niuland		
40	NAGALAND	Tseminyu		
41	TRIPURA	Khawai		
42	TRIPURA	West Tripura		

G. List of Species (Rainfall : 1000mm - 2000mm) Multiplier for rainfall zone: 1.1				
S.No	STATE	District	Forestry Species	Horticulture Species
1	CHANDIGARH	Chandigarh	Acacia catechu, Acacia nilotica, Acacia Senegal, Acacia tortilis, Aegle marmelos, Albizia procera, Anthocephalus chinensis, Anogeissus pendula, Aquilaria malaccensis	Annona reticulata, Annona squamosa, Artocarpus heterophyllus, Citrus limetta, Citrus maxima, Citrus sinensis, Cocos nucifera, Emblica officinalis, Ficus carica, Ficus palmata, Grewia asiatica, Litchi chinensis, Mangifera indica, Manilkara zapota, Morus alba, Psidium guajava, Punica granatum, Sapindus mukorossi, Ziziphus mauritiana
2	GUJARAT	Dangs		
3	GUJARAT	Surat		
4	GUJARAT	Chhota Udepur		
5	GUJARAT	Narmada		
6	GUJARAT	Panch Mahals		
7	GUJARAT	Tapi		
8	GUJARAT	Vadodara		
9	HARYANA	Panchkula		
10	HARYANA	Yamunanagar		
11	JHARKHAND	Chatra		
12	JHARKHAND	Deoghar		
13	JHARKHAND	Godda		
14	JHARKHAND	Bokaro		
15	JHARKHAND	Dhanbad		
16	JHARKHAND	Dumka		
17	JHARKHAND	Giridih		
18	JHARKHAND	Gumla		
19	JHARKHAND	Hazaribagh		
20	JHARKHAND	Jamtara		
21	JHARKHAND	Khunti		
22	JHARKHAND	Latehar		
23	JHARKHAND	Lohardaga		
24	JHARKHAND	Pakur		
25	JHARKHAND	Palamu		
26	JHARKHAND	West Singhbhum		
27	JHARKHAND	East Singhbhum		
28	JHARKHAND	Ramgarh		
29	JHARKHAND	Ranchi		
30	JHARKHAND	Sahibganj		
31	JHARKHAND	Saraikela-kharsawan		
32	JHARKHAND	Simdega		

H. List of Species (Rainfall : 1000mm - 2000mm) Multiplier for rainfall zone: 1.1				
S.No	STATE	District	Forestry Species	Horticulture Species
1	UTTAR PRADESH	Bahraich	Acacia catechu, Acacia leucociphala, Acacia modesta, Acacia nilotica, Acacia nilotica, Aegle marmelos, Ailanthus excelsa, Albizia lebbeck, Azadirachta indica, Bombax ceiba, Dalbergia sissoo, Ficus racemosa, Ficus virens, Holoptelea integrifolia, Melia azedarach, Moringa oleifera, Phyllanthus emblica, Pongamia pinnata, Prosopis cineraria, Pterocarpus marsupium, Sterculia villosa, Swietenia mahagoni, Syzygium cumini, Tecomella undulata, Terminalia arjuna, Terminalia bellirica, Toona ciliata, Ziziphus mauritiana Buchanania cochinchinensis, Lannea coromandelica, Diospyros melanoxylon, Gmelina arborea, Sterculia urens,	Annona reticulata, Annona squamosa, Artocarpus heterophyllus, Citrus limetta, Citrus maxima, Citrus sinensis, Emblica officinalis, Ficus carica, Ficus palmata, Grewia asiatica, Litchi chinensis, Mangifera indica, Manilkara zapota, Morus alba, Psidium guajava, Punica granatum, Sapindus mukorossi, Ziziphus mauritiana
2	UTTAR PRADESH	Balrampur		
3	UTTAR PRADESH	Basti		
4	UTTAR PRADESH	Bijnor		
5	UTTAR PRADESH	Deoria		
6	UTTAR PRADESH	Gonda		
7	UTTAR PRADESH	Gorakhpur		
8	UTTAR PRADESH	Kheri		
9	UTTAR PRADESH	Kushinagar		
10	UTTAR PRADESH	Lalitpur		
11	UTTAR PRADESH	Mau		
12	UTTAR PRADESH	Pilibhit		
13	UTTAR PRADESH	Rampur		
14	UTTAR PRADESH	Saharanpur		
15	UTTAR PRADESH	Santkabirnagar		
16	UTTAR PRADESH	Shrawasti		
17	UTTAR PRADESH	Siddharthnagar		
18	UTTAR PRADESH	Maharajganj		
19	BIHAR	Araria		
20	BIHAR	Banka		
21	BIHAR	Begusarai		
22	BIHAR	Bhagalpur		
23	BIHAR	Darbhanga		
24	BIHAR	Gopalganj		
25	BIHAR	Jamui		
26	BIHAR	Katihar		
27	BIHAR	Khagaria		
28	BIHAR	Madhepura		
29	BIHAR	Madhubani		
30	BIHAR	Munger		
31	BIHAR	Pashchimi Champaran		
32	BIHAR	Purbi Champaran		
33	BIHAR	Purnia		
34	BIHAR	Saharsa		
35	BIHAR	Saran		
36	BIHAR	Sheohar		

37	BIHAR	Sitamarhi
38	BIHAR	Siwan
39	BIHAR	Supaul

I. List of Species (Rainfall : 1000mm - 2000mm) Multiplier for rainfall zone: 1.1				
S.No	STATE	District	Forestry Species	Horticulture Species
1	CHHATTISGARH	Bastar	Acacia chundra, Acacia leucophloea, Acacia nilotica, Aegle marmelos, Ailanthus excelsa, Albizia lebbeck, Albizia procera, Anacardium occidentale, Anogeissus latifolia, Artocarpus gomezianus, Artocarpus hirsutus, Azadirachta indica, Borassus flabellifer, Boswellia serrata, Bridelia retusa, Buchanania cochinchinensis, Calophyllum elatum, Calophyllum inophyllum, Canarium strictum, Chloroxylon swietenia, Cinnamomum tamala, Cinnamomum zeylanicum, Cleistanthus collinus, Dalbergia latifolia, Dalbergia paniculata, Dalbergia sissoo, Diospyros melanoxylon, Elaeocarpus serratus, Garcinia indica, Garcinia spicata, Gardenia gummifera, Gardenia resinifera, Gmelina arborea, Hardwickia binnata, Holarrhena pubescens, Holigarna arnottiana, Holoptelea integrifolia, Hopea wightiana, Lagerstroemia parviflora, Lannea coromandelica, Madhuca longifolia, Magnolia champaca, Melia azedarach, Melia dubia, Mimusops elengi, Morinda pubescens, Moringa oleifera, Morus alba, Myristica indica, Oroxylum indicum, Petrocarpus marsupium, Phoenix loureiroi, Pongamia pinnata, Pterocarpus marsupium, Pterocarpus santalinus, Santalum album, Sapindus emarginatus, Schleichera oleosa, Spondias pinnata, Sterculia guttata, Sterculia urens, Stereospermum chlonoides, Swietenia mahogany, Tamarindus indica, Tectona grandis, Terminalia catappa, Terminalia arjuna, Terminalia bellerica, Terminalia chebula, Terminalia tomentosa, Wrightia tinctoria, Xylia xylocarpa, Toona ciliata, Schrebera swietenioides	Anacardium occidentale, Annona reticulate, Annona squamosa, Artocarpus heterophyllus, Averrhoa carambola, Citrus limetta, Citrus nobilis, Citrus reticulata, Citrus sinensis, Cocos nucifera, Emblica officinalis, Ficus carica, Grewia asiatica, Litchi chinensis, Mangifera indica, Manilkara zapota, Morus alba, Prunus persica, Psidium guajava, Punica granatum, Sapindus mukorossi, Ziziphus mauritiana, Citrus sinensis
2	CHHATTISGARH	Dantewada		
3	CHHATTISGARH	Dhamtari		
4	CHHATTISGARH	Janjgir - Champa		
5	CHHATTISGARH	Narainpur		
6	CHHATTISGARH	Raigarh		
7	CHHATTISGARH	Sukma		
8	CHHATTISGARH	Balod		
9	CHHATTISGARH	Baloda Bazar		
10	CHHATTISGARH	Balrampur		
11	CHHATTISGARH	Bemetara		
12	CHHATTISGARH	Bijapur		
13	CHHATTISGARH	Bilaspur		
14	CHHATTISGARH	Gaurela-pendra-marwahi		
15	CHHATTISGARH	Durg		
16	CHHATTISGARH	Gariyaband		
17	CHHATTISGARH	Jashpur		
18	CHHATTISGARH	Kabirdham		
19	CHHATTISGARH	Uttar Bastar Kanker		
20	CHHATTISGARH	Kondagaon		
21	CHHATTISGARH	Korba		
22	CHHATTISGARH	Korea		
23	CHHATTISGARH	Mahasamund		
24	CHHATTISGARH	Mungeli		
25	CHHATTISGARH	Raipur		
26	CHHATTISGARH	Raj Nandgaon		
27	CHHATTISGARH	Surajpur		
28	CHHATTISGARH	Surguja		
29	MADHYA PRADESH	Anuppur		
30	MADHYA PRADESH	Balaghat		
31	MADHYA PRADESH	Betul		
32	MADHYA PRADESH	Bhopal		
33	MADHYA PRADESH	Chhatarpur		
34	MADHYA PRADESH	Chhindwara		
35	MADHYA PRADESH	Damoh		
36	MADHYA PRADESH	Dewas		
37	MADHYA PRADESH	Dindori		
38	MADHYA PRADESH	Khandwa		
39	MADHYA PRADESH	Harda		

40	MADHYA PRADESH	Narmadapuram
41	MADHYA PRADESH	Indore
42	MADHYA PRADESH	Jabalpur
43	MADHYA PRADESH	Katni
44	MADHYA PRADESH	Mandla
45	MADHYA PRADESH	Narshimapura
46	MADHYA PRADESH	Panna
47	MADHYA PRADESH	Raisen
48	MADHYA PRADESH	Rajgarh
49	MADHYA PRADESH	Ratlam
50	MADHYA PRADESH	Sagar
51	MADHYA PRADESH	Satna
52	MADHYA PRADESH	Sehore
53	MADHYA PRADESH	Seoni
54	MADHYA PRADESH	Shahdol
55	MADHYA PRADESH	Shajapur
56	MADHYA PRADESH	Sidhi
57	MADHYA PRADESH	Umaria
58	MADHYA PRADESH	Vidisha
59	MAHARASHTRA	Satara
60	MAHARASHTRA	Amaravati
61	MAHARASHTRA	Bhandara
62	MAHARASHTRA	Chandrapur
63	MAHARASHTRA	Gadchiroli
64	MAHARASHTRA	Gondia
65	MAHARASHTRA	Hingoli
66	MAHARASHTRA	Nagpur
67	MAHARASHTRA	Nanded
68	MAHARASHTRA	Nashik
69	MAHARASHTRA	Pune
70	MAHARASHTRA	Wardha
71	MAHARASHTRA	Yavatmal
72	KARNATAKA	Belagavi
73	KARNATAKA	Hassan

J. List of Species (Rainfall : 1000mm - 2000mm) Multiplier for rainfall zone: 1.1				
S.No	STATE	District	Forestry Species	Horticulture Species
1	LAKSHADWEEP	Lakshadweep	<i>Acacia sinuate, Adenanthera pavonina,</i>	<i>Anacardium occidentale,</i>
2	KERALA	Thiruvananthapuram	<i>Aegle marmelos, Ailanthus excelsa,</i>	<i>Annona reticulata,</i>

3	PUDUCHERRY	Karaikal	<i>Alstonia scholaris, Anacardium occidentale, Anogeissus latifolia, Anogeissus latifolia, Aphananixis polystachya, Artocarpus hirsutus, Artocarpus lacucha, Borassus flabellifer, Buchanania cochinchinensis, Calophyllum elatum, Casuarina equisetifolia, Cinnamomum camphora, Cinnamomum tamala, Cinnamomum zeylanicum, Citrus medica, Cocos nucifera, Cordia oblique, Dipterocarpus indicus, Dysoxylum malabaricum, Garcinia indica, Garcinia spicata, Gmelina arborea, Holoptelia integrifolia, Hopea parviflora, Hydnocarpus wightianus, Madhuca longifolia, Magnolia champaca, Melia composita, Millingtonia hortensis, Moringa oleifera, Olea dioica, Petrocarpus marsupium, Phoenix sylvestris, Pongamia pinnata, Prunus dulcis, Santalum album, Sapindus emarginatus, Schleichera oleosa, Spondias pinnata, Sterculia guttata, Sterculia urens, Stereospermum chlonoides, Swietenia mahagoni, Syzygium aromaticum, Syzygium calophyllifolium, Syzygium cumini, Tamarindus indica, Tectona grandis, Terminalia alata, Terminalia bellirica, Terminalia catappa, Terminalia chebula, Terminalia tomentosa, Toona Ciliata</i>	<i>Annona squamosa, Artocarpus heterophyllus, Averrhoa carambola, Citrus limetta, Citrus nobilis, Citrus reticulate, Citrus sinensis, Cocos nucifera, Emblica officinalis, Ficus carica, Grewia asiatica, Litchi chinensis, Mangifera indica, Manilkara zapota, Morus alba, Prunus persica, Psidium guajava, Punica granatum, Sapindus mukorossi, Ziziphus mauritiana, Citrus sinensis</i>
4	PUDUCHERRY	Puducherry		
5	PUDUCHERRY	Yanam		
6	TAMIL NADU	Cuddalore		
7	TAMIL NADU	Kanchipuram		
8	TAMIL NADU	Nilgiris		
9	TAMIL NADU	Nagapattinam		
10	TAMIL NADU	Thanjavur		
11	TAMIL NADU	Thiruvarur		
12	TAMIL NADU	Tiruvallur		
13	TAMIL NADU	Ariyalur		
14	TAMIL NADU	Chengalpattu		
15	TAMIL NADU	Chennai		
16	TAMIL NADU	Coimbatore		
17	TAMIL NADU	Kallakkurichi		
18	TAMIL NADU	Kanyakumari		
19	TAMIL NADU	Ranipettai		
20	TAMIL NADU	Teni		
21	TAMIL NADU	Tenkasi		
22	TAMIL NADU	Tirunelveli		
23	TAMIL NADU	Tiruvannamalai		
24	TAMIL NADU	Villupuram		
25	TAMIL NADU	Mayiladuthurai		
26	TELANGANA	Adilabad		
27	TELANGANA	Bhadradri Kothagudem		
28	TELANGANA	Nizamabad		
29	TELANGANA	Mulugu		
30	TELANGANA	Kumuram Bheem		
31	TELANGANA	Mancherial		
32	TELANGANA	Nirmal		
33	TELANGANA	Kamareddy		
34	TELANGANA	Sangareddy		
35	TELANGANA	Khammam		
36	TELANGANA	Mahabubabad		
37	TELANGANA	Warangal (rural)		
38	TELANGANA	Jayashankar Bhupalapally		
39	TELANGANA	Peddapalli		
40	TELANGANA	Medak		
41	ANDHRA PRADESH	East Godavari		
42	ANDHRA PRADESH	Krishna		
43	ANDHRA PRADESH	Srikakulam		
44	ANDHRA PRADESH	Visakhapatnam		
45	ANDHRA PRADESH	Vizianagaram		
46	ANDHRA PRADESH	West Godavari		

K. List of Species (Rainfall : 1000mm - 2000mm) Multiplier for rainfall zone: 1.1				
S.No	STATE	District	Forestry Species	Horticulture Species
1	UTTARAKHAND	Haridwar	<i>Adina cardifolia, Aegle marmelos,</i>	<i>Pyrus communis,</i>
2	UTTARAKHAND	Udham Singh Nagar	<i>Aesculus assamicus, Alnus nepalensis,</i>	<i>Psidium guajava,</i>
3	UTTARAKHAND	Almora	<i>Amoora wallichii, Anogeissus latifolia,</i>	<i>Artocarpus</i>

4	UTTARAKHAND	Bageshwar	<i>Bauhinia purpurea, Bauhinia varigeta, Biscofia javanica, Celtis australis, Dalbergia sissoo, Grewia asiatica, Grewia optiva, Holoptelia integrifolia, Lagerstroemia parviflora, Lagerstroemia indica, Lannea coromandelica, Mallotus phillipensis, Melia azedarach, Myrica esculenta, Ougeinia oojeiensis, Pistacia khinjuk, Sapium insigne, Shorea robusta, Terminalia tomentosa, Toona ciliata, Cassia fistula, Erythrina suberosa, Syzygium cumini, Shorea robusta, Delbergia latifolia, Bombax ceiba, Neolamarckia cadamba, Salix alba, Populus ciliata, Prunus cerasoides, Myrica esculanta, Kydia calycina, Pyrus pashia, Quercus leucotrichophora, quercus floribunda, Rhododendron arboreum, Grewia optiva Moringa oleifera, Oroxylum indicum, Spondias pinnata, Boswellia serrata, Prunus cerasoides, Lannea coromandalica, Buchanania cochinchinensis, Diospyros melanoxylon tupru, Terminalia bellarica, Terminalia arjuna, Terminalia chebula</i>	<i>heterophyllus, Mangifera indica, Juglans regia, Emblica officinalis, Litchi chinensis</i>
5	UTTARAKHAND	Champawat		
6	UTTARAKHAND	Dehradun		
7	UTTARAKHAND	Nainital		
8	UTTARAKHAND	Pauri Garhwal		
9	UTTARAKHAND	Rudraprayag		
10	UTTARAKHAND	Tehri Garhwal		
11	UTTARAKHAND	Chamoli		
12	UTTARAKHAND	Pithoragarh		
13	UTTARAKHAND	Uttarkashi		
14	HIMACHAL PRADESH	Solan		
15	HIMACHAL PRADESH	Bilaspur		
16	HIMACHAL PRADESH	Chamba		
17	HIMACHAL PRADESH	Hamirpur		
18	HIMACHAL PRADESH	Kangra		
19	HIMACHAL PRADESH	Mandi		
20	HIMACHAL PRADESH	Shimla		
21	HIMACHAL PRADESH	Sirmaur		
22	HIMACHAL PRADESH	Una		
23	PUNJAB	Pathankot		
24	JAMMU AND KASHMIR	Doda		
25	JAMMU AND KASHMIR	Jammu		
26	JAMMU AND KASHMIR	Kathua		
27	JAMMU AND KASHMIR	Kulgam		
28	JAMMU AND KASHMIR	Mirpur		
29	JAMMU AND KASHMIR	Rajauri		
30	JAMMU AND KASHMIR	Ramban		
31	JAMMU AND KASHMIR	Riasi		
32	JAMMU AND KASHMIR	Samba		
33	JAMMU AND KASHMIR	Shupiyan		
34	JAMMU AND KASHMIR	Udhampur		

L. List of Species (Rainfall : 1000mm - 2000mm) Multiplier for rainfall zone: 1.1				
S.No	STATE	District	Forestry Species	Horticulture Species
1	ODISHA	Anugul	<i>Abizia lebbeck, Aegle marmelos,</i>	<i>Areca catechu, Litchi chinensis, Pyrus communis, Psidium guajava, Artocarpus</i>
2	ODISHA	Balasore (baleshwar)	<i>Ailanthus excelsa, Albizia chinensis,</i>	
3	ODISHA	Bhadrak	<i>Albizia procera, Artocarpus chama,</i>	
4	ODISHA	Gajapati	<i>Baccaurea ramiflora, Bischofia javanica,</i>	

5	ODISHA	Kendraparha	Bombax ceiba, Canarium strictum, Chukrasia tabularis, Cinnamomum tamala, Cordia dichotoma, Dalbergia sissoo, Derris robusta, Docynia indica, Duabanga grandiflora, Dysoxylum binectariferum, Erythroxylon	heterophyllus, Citrus sinensis, Elaeocarpus floribundus, Citrus maxima, Prunus domestica, Pyrus communis, Prunus persica, Averrhoa carambola, Citrus hystrix, Cocos nucifera, Emblica officinalis, Mangifera indica
6	ODISHA	Bolangir (balangir)	kunthianum, Garcinia cowa, Garcinia kydia, Garcinia pedunculata, Garcinia tinctoria, Gmelina arborea, Gynocardia odorata, Heteropanax fragrans, Holarhena antidysenterica, Livistona jenkinsiana, Magnolia champaca, Magnolia gustavi, Melia azadirach, Morus alba, Myrica esculenta, Neolamarckia cadamba, Oroxylum indicum, Premna latifolia, Schima wallichii, Shorea robusta, Stereospermum chelonoides, Syzygium cumunii, Tectona grandis, Terminalia arjuna, Terminalia bellarica, Terminalia chebula, Terminalia citrina, Terminalia myriocarpa, Terminalia tomentosa, Toona ciliata, Trewia nudiflora	
7	ODISHA	Baragarh		
8	ODISHA	Cuttack		
9	ODISHA	Deogarh		
10	ODISHA	Dhenkanal		
11	ODISHA	Ganjam		
12	ODISHA	Jagatsinghpur		
13	ODISHA	Jajapur		
14	ODISHA	Jharsuguda		
15	ODISHA	Kalahandi		
16	ODISHA	Kandhamal		
17	ODISHA	Keonjhar (kendujhar)		
18	ODISHA	Khordha		
19	ODISHA	Koraput		
20	ODISHA	Malkangiri		
21	ODISHA	Mayurbhanj		
22	ODISHA	Nabarangapur		
23	ODISHA	Nayagarh		
24	ODISHA	Nuaparha		
25	ODISHA	Puri		
26	ODISHA	Rayagarha		
27	ODISHA	Sambalpur		
28	ODISHA	Subarnapur		
29	ODISHA	Sundargarh		
30	ODISHA	Baudh (bauda)		
31	WEST BENGAL	Purba Medinipur		
32	WEST BENGAL	South Twenty-four Parganas		
33	WEST BENGAL	Bankura		
34	WEST BENGAL	Purba Barddhaman		
35	WEST BENGAL	Birbhum		
36	WEST BENGAL	Dakshin Dinajpur		
37	WEST BENGAL	Haora		
38	WEST BENGAL	Hugli		
39	WEST BENGAL	Kolkata		
40	WEST BENGAL	Maldah		
41	WEST BENGAL	Murshidabad		
42	WEST BENGAL	Nadia		
43	WEST BENGAL	North Twenty-four Parganas		
44	WEST BENGAL	Paschim Medinipur		
45	WEST BENGAL	Puruliya		
46	WEST BENGAL	Uttar Dinajpur		
47	WEST BENGAL	Jhargram		
48	WEST BENGAL	Paschim Barddhaman		

M. List of Species (Rainfall : above 2000mm) Multiplier for rainfall zone: 1.0				
S.No	STATE	District	Forestry Species	Horticulture Species
1	ARUNACHAL PRADESH	Changlang	<i>Abizia lebbeck, Aegle marmelos, Ailanthus excelsa, Albizia chinensis, Albizia odoratissima, Albizia procera, Altengia excelsa, Aquilaria malaccensis, Artocarpus chama, Artocarpus lakoocha, Baccarea ramiflora, Betula alnoides, Bischofia javanica, Bombax ceiba, Bauhinia</i>	<i>Areca catechu, Litchi chinensis, Pyrus communis, Psidium guajava, Artocarpus heterophyllus, Citrus sinensis, Elaeocarpus floribundus, Citrus maxima, Prunus</i>
2	ARUNACHAL PRADESH	Lohit		
3	ARUNACHAL PRADESH	Lower Dibang Valley		
4	ARUNACHAL PRADESH	Papumpare		

5	ARUNACHAL PRADESH	Tirap	<i>purpurea, Bauhinia varigeta, Canarium resiniferum, Canarium strictum, Chukrasia tabularis, Cinnamomum tamala, Cordia dichotoma, Dalbergia sissoo, Derris robusta, Dillenia indica, Dipterocarpus retusus, Dipterocarpus turbinatus, Docynia indica, Duabanga grandiflora, Dysosylum binectariferum, Erythroxylon kunthianum, Exbucklandia populnea, Garcinia cowa, Garcinia kydia, Garcinia pedunculata, Garcinia tinctoria, Gmelina arborea, Gynocardia odorata, Heteropanax fragrans, Holarrhena antidysenterica, Kayea assamica, Livistona jenkinsiana, Magnolia champaca, Magnolia gustavi, Melia azadirach, Mesua ferrea, Morus alba, Myrica esculenta, Neolamarckia cadamba, Oroxyllum indicum, Phoebe goalparensis, Parkia timoriana, Pinus kesiya, Premna latifolia, Schima wallichii, Shorea assamica, Stereospermum chelonoides, Syzygium cumunii Tectona grandis, Terminalia arjuna, Terminalia bellarica, Terminalia chebula, Terminalia citrina, Terminalia myriocarpa, Terminalia tomentosa, Toona ciliata, Trewia nudiflora</i>	<i>domestica, Pyrus communis, Prunus persica, Averrhoa carambola, Citrus hystrix, Emblica officinalis, Mangifera indica, Moringa oleifera</i>
6	ARUNACHAL PRADESH	Lower Siang		
7	ARUNACHAL PRADESH	West Siang		
8	ARUNACHAL PRADESH	Lepa Rada		
9	ARUNACHAL PRADESH	Pakke Kessang		
10	ARUNACHAL PRADESH	Namsai		
11	ARUNACHAL PRADESH	Kamle		
12	ARUNACHAL PRADESH	East Siang		
13	ARUNACHAL PRADESH	Longding		
14	ARUNACHAL PRADESH	Capital complex itanagar		
15	ARUNACHAL PRADESH	lepa rada		
16	ASSAM	Baksa		
17	ASSAM	Dhubri		
18	ASSAM	Hailakandi		
19	ASSAM	Lakhimpur		
20	ASSAM	Barpeta		
21	ASSAM	Bongaigaon		
22	ASSAM	Cachar		
23	ASSAM	Charaideo		
24	ASSAM	Dhemaji		
25	ASSAM	Dibrugarh		
26	ASSAM	Goalpara		
27	ASSAM	Jorhat		
28	ASSAM	Karimganj		
29	ASSAM	Kokrajhar		
30	ASSAM	Majuli		
31	ASSAM	Sibsagar		
32	ASSAM	South Salmara Mancachar		
33	ASSAM	Tinsukia		
34	ASSAM	Udalguri		
35	BIHAR	Kishanganj		
36	MANIPUR	Tamenglong		
37	MANIPUR	Bishnupur		
38	MANIPUR	Chandel		
39	MANIPUR	Imphal West		
40	MANIPUR	Imphal East		
41	MANIPUR	Thoubal		
42	MANIPUR	Kamjong		
43	MANIPUR	Nonei		
44	MANIPUR	Tengnoupal		
45	MANIPUR	Kangpokpi		
46	MANIPUR	Kakching		
47	MEGHALAYA	West Garo Hills		
48	MEGHALAYA	Ri-bhoi		
49	MEGHALAYA	South West Garo Hills		

50	MEGHALAYA	North Garo Hills
51	MIZORAM	Lawngtlai
52	MIZORAM	Saiha
53	MIZORAM	Serchhip
54	MIZORAM	Kolasib
55	MIZORAM	Mamit
56	MIZORAM	Lunglei
57	NAGALAND	Mokokchung
58	NAGALAND	Mon
59	NAGALAND	Tuensang
60	NAGALAND	Longleng
61	NAGALAND	Noklak
62	NAGALAND	Shamator
63	TRIPURA	Dhalai
64	TRIPURA	Gomati
65	TRIPURA	North Tripura
66	TRIPURA	Sepahijala
67	TRIPURA	South Tripura
68	TRIPURA	Unokoti
69	WEST BENGAL	Cooch Behar

N.List of Species (Rainfall : above 2000mm) Multiplier for rainfall zone: 1.0				
S.No	STATE	District	Forestry Species	Horticulture Species
1	WEST BENGAL	Darjeeling	Acer laevigatum, Acer oblongum, Acrocarpus fraxinifolius, Albizia lebbeck, Amoora wallichii, Neolamarckia cadamba, Betula utilis, Boehmeria rugulosa, Canarium sikkimensis, Castanopsis hystrix, Castanopsis indica, Cinnamomum tamala, Cinnamomum zeylanicum, Engelhardtia spicata, Juglans regia, Gmelina arborea, Heteropanax fragrans, Morus laevigata, Rhododendron spp. Quercus spp. Tusga dumosa, Taxus wallichiana, Terminalia myriocarpa, Artocarpus spp. Albizza procera, , Tetrameles nudiflora, Exbucklandia populnea, Litsea polyantha,	Litchi chinensis, Pyrus communis, Psidium guajava, Artocarpus heterophyllus, Pyrus communis, Citrus sinensis, Elaeocarpus floribundus, Citrus maxima, Prunus domestica, Prunus persica, Averrhoa carambola, Citrus sinensis
2	SIKKIM	East Sikkim		
3	SIKKIM	South Sikkim		
4	SIKKIM	Pakyong		
5	DADRA & NAGAR HAVELI & DAMAN & DIU	Dadra & Nagar Haveli	Tectona grandis, Calophyllum inophyllum, Pongamia pinnata, Holarrhena pubescens, Anacardium occidentale, Oroxylum indicum, Buchanania cochinchinensis, Pterocarpus marsupium, Dalbergia latifolia, Artocarpus heterophyllus, Casuarina equisetifolia, Pandanus tectorius, Terminalia paniculata, Terminalia tomentosa, Carallia brachiata, Excoecaria agallocha, Rhizophora apiculata, Bruguiera cylindrica, Dipterocarpus indicus, Cinnamomum verum, Cinnamomum zeylanicum, Hopea sp., Hydnocarpus sp. Lagerstroemia microcarpa, Adina cordifolia, Aquilaria malaccensis Pterygota alata, Artocarpus hirsuta, e Garcinia cowa, Syzygium rubicundum, Diospyros buxifolia, Holigarna grahamii, Tetrameles	Cocus nucifera, Anacardium occidentale, Mangifera indica, Artocarpus heterophyllus, Emblica officinalis, Areca catechu, Annona reticulata, Artocarpus hirsutus, Myristica fragrans
6	DADRA & NAGAR HAVELI & DAMAN & DIU	Daman		
7	GUJARAT	Valsad		
8	GUJARAT	Navsari		
9	KARNATAKA	Chikkamagaluru		
10	KARNATAKA	Shivamogga		
11	KERALA	Alappuzha		
12	KERALA	Idukki		
13	KERALA	Kollam		
14	KERALA	Kottayam		
15	KERALA	Palakkad		
16	KERALA	Pattanamthitta		
17	MAHARASHTRA	Kolhapur		
18	MAHARASHTRA	Mumbai City		
19	MAHARASHTRA	Sub Urban		

		Mumbai	
20	ANDAMAN & NICOBAR	Nicobar	nudiflora, Cryptocarya stockii, Elaeocarpus tuberculatus, Garcinia spicata, Knema attenuata, Baccaurea courtallensis, Syzygium cumini, Litsea floribunda, Litsea deccanensis, Dimocarpus longan Terminalia crenulata, Dalbergia lanceolaria, Dalbergia sissooides, Xylia xylocarpa, Mesua ferrea, Acrocarpus fraxinifolius, Hydnocarpus alpinia, Xylocarpus molluccensis, Heritiera littoralis, Knema andamanica, Barringtonia asiatica, Morinda citrifolia, Terminalia citrina,
21	ANDAMAN & NICOBAR	South Andaman	
22	ANDAMAN & NICOBAR	North & Middle Andaman	

O. List of Species (Rainfall : above 2000mm) Multiplier for rainfall zone: 1.0				
S.No	STATE	District	Forestry Species	Horticulture Species
1	GOA	North Goa	Abroma angusta, Anacardium occidentale, Artocarpus gomezianus, Baccaurea ramiflora, Borassus flabellifer, Calophyllum inophyllum, Carallia brachiata, Casuarina equisetifolia, Cycas rumphii, Cynometra ramiflora, Dalbergia latifolia, Dillenia indica, Diospyros andamanica, Dipterocarpus alatus, Excoecaria agallocha, Garcinia indica, Garcinia mangostana, Lagerstroemia speciosa, Magnolia champaca, Manilkara littoralis, Manilkara zapota, Mimusops elengi, Morinda citrifolia, Moringa oleifera, Myristica fragrans, Pandanus odoratissimus, Phyllanthus emblica, Pongamia pinnata, Santalum album, Sapindus laurifolius, Spondias dulcis, Spondias pinnata, Sterculia macrophylla, Tamarindus indicus, Tectona grandis, Terminalia arjuna, Terminalia bellirica, Terminalia bialata, Terminalia catappa, Terminalia citrina	Cocos nucifera, Anacardium occidentale, Mangifera indica, Artocarpus heterophyllus, Emblica officinalis, Areca catechu, Annona reticulate, Artocarpus hirsutus, Myristica fragrans
2	GOA	South Goa		
3	KARNATAKA	Dakshina Kannada		
4	KARNATAKA	Kodagu		
5	KARNATAKA	Udupi		
6	KARNATAKA	Uttara Kannada		
7	KERALA	Ernakulam		
8	KERALA	Kannur		
9	KERALA	Kasaragod		
10	KERALA	Kozhikode		
11	KERALA	Malappuram		
12	KERALA	Trissur		
13	KERALA	Wayanad		
14	PUDUCHERRY	Mahe		
15	MAHARASHTRA	Ratnagiri		
16	MAHARASHTRA	Palghar		
17	MAHARASHTRA	Raygad		
18	MAHARASHTRA	Sindhudurg		
19	MAHARASHTRA	Thane		
20	ASSAM	Chirang	Abizia lebbeck, Ailanthus excelsa, Albizia chinensis, , Albizia procera, Altengia excelsa, Aquilaria malaccensis, Artocarpus lakoocha, , Bauhinia purpurea, Canarium strictum, Chukrasia tabularis, Cinnamomum tamala, Derris robusta, Dillenia indica, Dipterocarpus retusus, Duabanga grandiflora, Exbucklandia populnea, Gmelina arborea, Holarrhena antidysenterica, Magnolia champaca, Mesua ferrea, Myrica esculenta, Phoebe goalparensis, Pinus kesiya, Premna latifolia, Schima wallichii, Stereospermum chelonoides, Syzygium cumunii, Terminalia arjuna, Terminalia bellarica, Terminalia chebula, Terminalia citrina, Terminalia myriocarpa, Toona ciliata, Eurya japonica Pterospermum acerifolium, Aegle marmelos, Dysoxylum binectariferum Anacardium occidentale,	Areca catechu, Litchi chinensis, Pyrus communis, Psidium guajava, Artocarpus heterophyllus, Citrus sinensis, Elaeocarpus floribundus, Citrus maxima, Prunus domestica, Pyrus communis, Prunus persica, Averrhoa carambola, Citrus hystrix, Emblica officinalis, Mangifera indica,
21	MEGHALAYA	East Garo Hills		
22	MEGHALAYA	East Khasi Hills		
23	MEGHALAYA	East Jaintia Hills		
24	MEGHALAYA	South Garo Hills		
25	MEGHALAYA	West Khasi Hills		
26	MEGHALAYA	South West Khasi Hills		
27	MEGHALAYA	West Jaintia Hills		
28	WEST BENGAL	Alipur Duar		
29	WEST BENGAL	Jalpaiguri		

30	WEST BENGAL	Kalimpong	Tamarindus indica, Lagerstroemia speciosa, Tectona grandis, Trewia nudiflora, Ficus auriculata, Ficus racemosa, Engelhardtia spicata Castanopsis indica, castanopsis tribuloides, Artocarpus chapsala, Morus laevigata, Betula alnoides, Rhododendron arboreum, Vitex pendacularis, Spondias pinnata, Garcinia lancifolia, Garcinia paniculata, Elaeocarpus floribundus, Quercus spp.	
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Note: List of tree species is tentative and it may be modified based on suggestions from stakeholders.

To calculate the average rainfall for each district, 30 years (1990-2019) climate data layers of worldclim and district boundaries provided by the Survey of India were used.