

GOVERNMENT OF MADHYA PRADESH
FOREST DEPARTMENT



5

SEED DIRECTORY
1967

Issued by
FOREST DEPARTMENT OF MADHYA PRADESH



PART—I

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RAJNANDGAON
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1967

SEED DIRECTORY OF FOREST DEPARTMENT OF MADHYA PRADESH

S. No.	Botanical name	Local name	Range in which found	Locality factor			Soil type	Quality of locality	Phenology		Approximate quantity of seed that can be available in quintal (12)	Division	Circle
				Altitude in metres (5)	Rain fall average in cms. (6)	Temperature variation in F. (7)			Time of fruiting (10)	Time of collection (11)			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1	Abrus precatorius	Gundi	All Ranges	464	101	50-93	Black cotton Sandy.	III, IV	Oct.-Dec.	Oct.-Dec.	0.25	Dewas	Indore
			do.	300-400	122	48-114	Shallow	III	Oct.-Nov.	Dec.-Jan.	0.25	North Panna	Rewa
2	Acacia arabica	Babul	Sohagpur	400-500	100	40-110	Black cotton	IV-b	Dec.-Jan.	April-June	0.10	Hoshangabad	Hoshangabad
			Piparia										
			Bhind	61 to 54	50	32-116	Alluvium with Kanker, Sandy.	IV	do.	do.	1.00	Gwalior	Gwalior
			All Ranges	250-770	95	40-100	Black cotton & shallow.	IV	do.	do.	0.50	Dhar	Indore
3	Acacia auriculata	Chilchati	Amroti	670.00	170	45-106	Clay	II-III	February	February	0.04	E.-Bastar	Bastar
		Chel	Kanger.										
4	Acacia catechu	Khair	All Ranges	500-600	140	40-115	Alluvium Sandy.	IV-b	Sept.-Oct.	Dec.-Jan.	2.00	N.-Seoni	Balaghat
			Rukhar	300-600	135	50-110	do.	IV-a	do.	do.	0.50	S.-Seoni	Balaghat
			All Ranges	304-80-914.4	139-190	98-103	Sandy loam	II	do.	do.	2.00	North Bastar	Bastar
			do.	662-1275	60-152	88-66	Sandy & Red soil	IV	do.	do.	2.00	S.-Bastar	Bastar
			do.	464	101.60	100-105	Black clay soil	III-IV	do.	do.	2.00	W.-Bastar	Bastar
			do.	748-1221	53-144	51-106	Sandy loam Lateritic.	III	do.	do.	5.00	Korea	Bilaspur
			do.	600-700	101	101	Laterite and Sandy loam.	III-IV	do.	do.	2.00	E.-Bhopal	Bhopal
			do.	396-579	127	52-112	Black clayey	IV-b	do.	do.	2.00	Sagar	Bhopal
			Raisen & Sarangi	1720	101.60	98-104	Sandy loam Black cotton.	IV	do.	do.	5.00	Raisen	do.
			All Ranges	400-550	100-110	50-115	Sandy loam	IV-b	do.	do.	2.00	Narsimhapur	Central
			do.	350-700	125	40-115	Sandy loam Laterite.	IV-a & b	do.	do.	2.00	Jabalpur	do.
			do.	305-549	89-152	41-106	Sandy loam	III	do.	do.	10.00	Guna	Gwalior
			do.	210-480	76.20	93-107	do.	IV-b	do.	do.	25.00	Sheopur	do.
			do.	666	88.90	46-112	Sandy loam Laterite.	IV-b	do.	do.	25.00	Sheopuri	do.
			do.	800-900	96-89	40-112	Sandy loam Clayey.	IV	do.	do.	5.00	Tikamgarh	do.
			do.	660	102-127	34-105	Black cotton	IV-a	do.	do.	0.50	S.-Betul	Hoshangabad
			do.	400-800	90-130	40-110	Red loam, Sandy loam, Sandy.	IV-b	do.	do.	0.20	Hoshangabad	do.

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				Altitude in metres (5)	Rain fall average in cms. (6)	Temperature variation in F. (7)			Time of fruiting (10)	Time of collection (11)			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Acacia catechu	Khair	All Ranges	464	101-60	50-93	Sandy	III-IV	Sept.-Oct.	Dec.-Jan.	5-00	Dewas	Indore
			do.	250-770	95	40-110	Black cotton & shallow.	IV	do.	do.	5-00	Dhar	do.
			Indore and Rantargarh	250-600	75-100	50-93	Sandy loam	IV-b	do.	do.	0-20	Indore	do.
			All Ranges	183-914	51-76	50-118	Semi-black Sandy.	IV	do.	do.	1-00	E.-Khargone	do.
			Bijawar	274-365	127	46-114	Brown sandy loam.	IV-b	do.	do.	5-00	Chattarpur	Rewa
			All Ranges	400-300	101-60	40-114	Shallow soil	III	do.	do.	5-00	N.-Panna	do.
			do.	500	125	91-4-116-6	Loamy sandy	IV-b	do.	do.	20-00	S.-Panna	do.
			do.	800	114	41-91	Sandy loam & Black cotton.	..	do.	do.	5-00	S.-Shahdol	do.
do.	425-800	125-150	40-104	Sandy to Sandy loam.	IV-b	do.	do.	2-00	Umaria	Rewa			
do.	400-650	140	104-113	Sandy soil	III	do.	do.	2-00	E.-Sidhi	do.			
do.	450-700	125	68-111	do.	III	do.	do.	1-00	W.-Sidhi	do.			
5	Adhatoda vasica	Adulsa	Barhi	370-700	125	40-115	Sandy loam Laterite.	IV-a, IV-b	July-August	Dec.-January	0-01	Jabalpur	Central
6	Adina cordifolia	Haldu	Ukua B/Damoh	525	165	40-112	Sandy loam	IV-a	June-August	April-June	0-20	N.-Balaghat	Balaghat
			W/Seoni	300-600	157-152	35-85	do.	III & IV	do.	do.	0-50	S.-Balaghat	do.
			All Ranges	500-1000	115	37-103	Loam	III & IV	do.	do.	0-20	E.-Chhindwara	do.
			do.	400-800	100-125	39-105	Deep loam	III-IV	do.	do.	0-20	W.-Chhindwara	do.
			do.	365-825	170-00	45-106	Sandy loam Red sand.	II/III	do.	do.	0-50	E.-Bastar	Bastar
			do.	304-1214	139-190	98-103	Sandy loam	II	do.	do.	0-50	N.-Bastar	do.
			do.	662-1275	60-152	44-86	Sandy & red	IV/III	do.	do.	0-50	S.-Bastar	do.
			do.	200-300	167	44-86	Sandy loam	II/III	do.	do.	0-50	W.-Bastar	do.
			do.	610	152	63-136	Sandy loam	III	do.	do.	0-50	Kanker	do.
			do.	1066-80	152-40	40-118	Sandy loam	III	do.	do.	0-01	Bilaspur	Bilaspur
			do.	1194	143-6	52-110	Sandy loam	IV	do.	do.	0-20	N.-Bilaspur	do.
			do.	.	152		do.	III	do.	do.	0-20	Raigarh	do.
			do.	1200	137-96	34-110	Well drained Sandy.	III	do.	do.	0-05	N.-Surguja	do.
			do.	327-1152	137-96	34-110	Sandy loam	III	do.	do.	0-10	S.-Surguja	do.
			do.	748-1221	144-78	41-90	Sandy loam	III-IV	do.	do.	0-50	Korea	do.

		do.	300-100	137-152	35-116	Laterite and Sandy loam.	II-III	do	do	0-20	Jashpur	do.	
		do.	400-550	100-150	50-115	Clayey loam Sandy loam.	III-II	do.	do.	0-10	Narsimhapur	Central	
		do.	350-700	125	40-115	Sandy loam Laterite.	IV-a & b	do.	do.	0-02	Jabalpur	do.	
		do.	305-549	89-152	41-105	Black cotton	IV-b	do	do.	0-01	Guna	Gwalior	
		do.	70-600	125	34-107	Well drained soil.	IV-II	do.	do.	0-75	N.-Betul	Hoshangabad	
		do.	70-600	102-127	34-107	Black cotton	...	do.	do.	0-01	S -Betul	do.	
		do.	325	100		Black cotton & Red.	IV-a	do.	do.	0-01	Harda	do.	
		Bori Sukhtava Bagra Sahagpur.	600-700	125	32-102	do.	III-IV-b	do.	do.	0-05	Hoshangabad	do.	
		All Ranges	464	102	50-93	Black, Sandy	III-IV	do.	do.	0-01	Dewas	Indore	
		do.	250-770	120	40-110	Deep clayey	IV-b	do.	do.	0-05	Dhar	do.	
		do.	300-350	63-76	60-90	Black cotton Sandy loam.	IV-III	do.	do.	0-05	W.-Khargone	do.	
		do.	400-600	112	52-114	Sandy loam	II-III	do.	do.	0-10	E.-Raipur	Raipur	
		Pithora Range	850-1000	140-150	52-114	Red loam	II & III	do.	do.	0-50	N.-Raipur	Raipur	
		All Ranges	300-400	140	52-114	Sandy loam	IV-III	do.	do.	0-50	S.-Raipur	do.	
		do.	300-400	122	40-114	Shallow	III	do.	do.	0-50	N.-Panna	Rewa	
		do.	400-650	140	40-113	Sandy loam Laterite.	III	do.	do.	0-10	E.-Sidhi	do.	
		do.	450	125	68-111	do.	III	do.	do.	0-10	W.-Sidhi	do.	
		do.	425-550	125-150	48-102	Sandy to Sandy loam.	IV-III	do.	do.	0-50	Umaria	do.	
7	Aegle marmelos	Bel	All Ranges	305-915	140-190	98-103	Sandy loam	II	May-July	May-July	4-00	N.-Bastar	Bastar
			do.	1029	145	52-110	Sandy & rocky	II	do.	do.	5-00	Korea	Bilaspur
			do.	290-800	137-152	52-110	Sandy loam	IV	do.	do.	0-20	Jashpur	do.
			do.	600-700	101		Laterite	III-IV	do.	do.	5-00	E.-Bhopal	Bhopal
			do.	549	152	49-112	Sandy loam	IV-b	do.	do.	3-00	Guna	Gwalior
			do.	464	101	50-93	Murram	III & IV	do.	do.	2-00	Dewas	Indore
8	Albizzia Labbek	Kala siris	do.	748-1276	60-152	66-88	Sandy & Red	IV	August-Sept.	Dec -Jan.	0-50	S.-Bastar	Bastar
			do.	914	152-40	35-118	Sandy loam	III	do.	do.		Bilaspur	Bilaspur
			do.	748-1029	145-48	52-110	Sandy loam Rocky.	III-IV	do.	do.	2-00	Korea	do.
			do.	300-600	137-152	45-116	Sandy loam	III	do.	do.	0-20	Jashpur	do.
			do.	305-550	88-152	49-112	All soil	IV	do.	do.	2-00	Guna	Gwalior
			do.	660	102-127	34-105	Black cotton	III	do.	do.	0-50	S.-Betul	Hoshangabad
		Chichola	do.	500-700	100-120	40-110	Black cotton Red loam.	IV-a & b	do.	do	0-01	Hoshangabad	do.
		Kala siris	do.	464	102	82-105	Murram, Sandy loam.	III-IV	do.	do.	1-00	Dewas	Indore
9	Albizzia odoratissima	Chichwa	All Ranges	600	165	35-105	Sandy loam	IV-a	October	December	0-01	N.-Balaghat	Balaghat

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				Altitude in metres (5)	Rain fall average in cms. (6)	Temperature variation in F. (7)			Time of fruiting (10)	Time of collection (11)				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
	<i>Albizzia odoratissima</i>	Kindgi	Amraoti Kanger.	670	170-00	44-86	Sandy loam	II/III	February	February	0.05	E.-Bastar	Bastar	
10	<i>Albizzia procera</i>	Safed siris	All Ranges	662	152	44-86	Sandy loam	IV	Oct.-Jan.	Feb.-May	0.50	S.-Bastar	Bastar	
			do.	449-1029	144.78	66-91	Sandy loam	IV-b	do.	do.	0.50	Korea	Bilaspur	
			do.	449.00	152.4	49-112	Sandy	IV-b	do.	do.	0.02	Guna	Gwalior	
			do.	464	102	50-93	Murram and Sandy loam.	III & IV	do.	do.	1.00	Dewas	Indore	
			do.	300-350	155-190	60-90	Red, Sandy loam.	III	do.	do.	2.00	W.-Khargone	do.	
11	<i>Alangium salvi-folium.</i>	Akol	All Ranges	464	102.00	50-93	Murram and Sandy loam.	III & IV	May-August	May-August	0.50	Dewas	Indore	
12	<i>Anogeissus latifolia</i>	Dhaora	All Ranges	325	165	35-105	Sandy clay loam.	IV-a	Dec.-March	Feb.-March	0.01	N.-Balaghat	Balaghat	
			do.	500-1000	115	37-103	Sandy loam	III-IV	do.	do.	1.00	E.-Chhindwara	do.	
			do.	400-700	103	37-107	Sandy loam	III-IV	do.	do.	1.00	S.-Chhindwara	do.	
			do.	400-800	125	42-104	Deep soil	III-IV	do.	do.	5.00	W.-Chhindwara	do.	
			do.	450-670	170.00	42-104	Sandy Soil	II	do.	do.	5.00	E.-Bastar	Bastar	
			do.	662	152	66-88	Sandy	IV	do.	do.	1.00	S.-Bastar	do.	
			do.	330-440	182	44-86	Sandy loam	III & IV-a	do.	do.	0.50	W.-Bastar	do.	
			do.	500	152	59-102	do.	III	do.	do.	2.00	Kanker	do.	
			do.	1066	152	30-118	do.	IV	do.	do.	1.00	Bilaspur	Bilaspur	
			do.	364-1125	143.6	66-86	Sandy	IV-V	do.	do.	1.00	N.-Bilaspur	do.	
			do.	198-982	152	82-108	do.	III	do.	do.	1.00	Raigarh	do.	
			do.	325-1200	138	34-110	Sandy loam	III	do.	do.	5.00	N.-Surguja	do.	
			do.	328-1152	138	34-110	do.	IV	do.	do.	2.00	S.-Surguja	do.	
			do.	548-1029	53-140	51-106	Sandy loam Rocky.	III	do.	do.	5.00	Korea	do.	
			do.	300-1000	137-152	35-110	Sandy loam	II, III, IV	do.	do.	5.00	Jashpur	do.	
			do.	600-700	101	39-102	Laterite	III, IV	do.	do.	1.00	E.-Bhopal	Bhopal	
			do.	100-500	150-175	84-104	Alluvial	IV	do.	do.	2.00	S.-Mandla	Central	
			do.	400-550	100-150	50-115	Sandy loam	IV	do.	do.	4.00	Narsimhapur	do.	
			do.	350-700	125	40-115	Sandy loam	IV-a & Laterite.	IV-b	do.	do.	do.	Jabalpur	do.
			do.	549	152	49-112	Sandy loam	IV-b	do.	do.	2.00	Guna	Gwalior	
		Dhau	do.	666	88-90	46-112	Shallow, Sandy loam, Laterite.	IV-b	do.	do.	1.00	Shivpuri	do.	
		Dhaora	do.	660	102-127	37-90	Sandy loam	III	do.	do.	0.10	S.-Betul	Hoshangabad	
			do.	500-700	80-120	40-110	Black cotton Red loam.	IV-a & IV-b	do.	do.	0.05	Hoshangabad	do.	

		do.	do.	464	102	50-93	Black cotton III, IV clay loam.	do.	do.	5-00	Dewas	Indore
			do.	250-770	111	40-110	Red, Clayey IV	do.	do.	1-00	Dhar	do.
			do.	250-600	75-100	50-93	Sandy loam IV	do.	do.	0-50	Indore	do.
			do.	183-914	51-76	50-118	Sandy loam IV	do.	do.	1-00	E.-Khargone	do.
			do.	350-400	63-76	60-90	Red Lateritic IV-III	do.	do.	10-00	W.-Khargone	do.
			do.	400	146	50-112	Sandy loam IV-III	do.	do.	0-50	S.-Raipur	Raipur
			do.	400-300	122	40-114	Shallow III	do.	do.	5-00	S.-Panna	Rewa
			do.	400-650	140	40-113	Red soil III	do.	do.	1-00	E.-Sidhi	do.
			do.	700	125	40-113	Rocky soil III	do.	do.	1-00	W.-Sidhi	do.
13	Anogeissus pendula.	Kardhai	All Ranges	549	152	49-112	Sandy IV-b	Oct.-Nov.	Dec.-Jan.	3-00	Guna	Gwalior
		do.	do.	800-900	76-89	40-110	Sandy loam IV-a Clayey.	do.	do.	5-00	Tikamgarh	do.
		do.	do.	366	88-90	46-112	Shallow sandy loam, Laterite. IV-b	do.	do.	4-00	Shivpuri	do.
		do.	do.	300-400	122	40-114	Shallow III	do.	do.	4-00	N.-Panna	Rewa
14	Andrographis paniculata.	Chiraita	Balaghat	300-600	127-152	46-185	Sandy III & IV	Feb.-Mar.	March	0-01	S.-Balaghat	Balaghat
			Kundam	350-700	125	40-115	Sandy loam IV-a, IV-b Laterite.	July-Aug.	Dec.-Jan.	0-01	Jabalpur	Central
15	Andropogon contortus.	Godem	All Ranges	662-1275	152	42-104	Sandy loam IV Red.	September	Sept.-Oct.	0-10	S.-Bastar	Bastar
16	Andropogon squarrosus	Kans	do.	464	101	50-93	Black cotton IV-b	Nov.-Jan.	Nov.-Jan.	0-25	Dewas	Indore
17	Andropogon annulatus.	Marwel Lahan	do.	350-700	125	40-115	Sandy loam IV-a, IV-b Laterite.	Sept.-Oct.	October	0-01	Jabalpur	Central
18	Anthistiria ciliata	Gaudrali	All Ranges	464	102	50-93	Sandy loam IV-b	Nov.-Jan.	Nov.-Jan.	0-25	Dewas	Indore
19	Anona squamosa	Sitaphal	do.	662-1275	152	42-104	Sandy loam IV	Sept.-Oct.	Oct.-Dec.	0-01	W.-Bastar	Bastar
			Raigarh	1500	100	39-102	Laterite IV	do.	do.	0-01	W.-Bhopal	Bhopal
20	Antidesma diandrum.	Amtuca	All Ranges	328-1152	138	34-110	Well drained sandy loam Laterite. III	Sept.-Oct.	May-June	0-01	S.-Surguja	Bilaspur
21	Arundinaria retusa.	..	All Ranges	328-1152	138	34-110	Well drained sandy loam. IV	Dec.-Jan.	April-May	Only when flowers.	S.-Surguja	Bilaspur
			do.	743-1221	145	66-91	Sandy rocky III	October	November	..	Korea	Bilaspur
22	Apluda mutica var aristata A. aristate	Fuli	Manpur	250-600	75-100	50-93	Sandy loam IV-b	August	September	0-01	Indore	Indore
23	Apluda mutica var mutica A. Varia.	Dhular	Keolari	500-600	130-150	40-115	Clayey loam IV-a, III Sandy stony.	Oct.-Nov.	Dec.-Jan.	0-20	N.-Seoni	Balaghat
		do.	Barghat Seoni	500-600	130-150	40-110	do. IV-a, III	do.	do.	0-20	S.-Seoni	Balaghat
		Kamro-duel.	All Ranges	464	102	50-93	Sandy loam IV-b and murrum.	do.	Oct.-Dec.	0-25	Dewas	Indore

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	<i>Apluda mutica</i> var <i>mutica</i> A. Varia.	Guner	All Ranges	198-914	152	81-109	Sandy loam and murrum.	III	Dec.-Jan.	Feb.-Mar.	0-20	Raigarh	Bilaspur
24	<i>Asparagus recemous</i>	Satawai Satomuli	All Ranges do.	364-1136 464	144 102	66-86 50-93	Sandy clay Sandy loam murrum.	III III	October Oct.-Dec.	October Oct.-Dec.	0-20 0-10	N.-Bilaspur Dewas	Bilaspur Indore
25	<i>Azadirachta indica</i>	Neem	Ukwa Kanta All Ranges do.	650 662-1275 350-700 464	165 60-152 125 102	35-105 66-88 40-115 50-93	Sandy Sandy, Red soil. Sandy loam Laterite. Murrum and Sandy loam.	IV-a IV IV IV, III	March May May May	June August August August	0-02 0-50 1-00 5-00	N.-Balaghat S.-Bastar Jabalpur Dewas	Balaghat Bastar Central Indore
26	<i>Balanites roxburghii</i>	Hingore	All Ranges	464	102	50-93	Sandy loam	IV, III	March	March-May	0-02	Dewas	Indore
27	<i>Bambusa arundinacea</i> .	Kanta Bans	All Ranges do.	662-1275 650	152 165	65-87 35-105	Sandy and Red. Sandy	IV III	.. ..	.. ..	Only when flowers. ..	S.-Bastar N.-Balaghat	Bastar Balaghat
28	<i>Borassus flabellifer</i> .	Teb	All Ranges	662-1275	152	65-87	Sandy and Red.	IV	April-May	April-May	0-20	S.-Bastar	Bastar
29	<i>Boswellia serrata</i>	Salai	All Ranges do. do. Keolari All Ranges do. Kanta All Ranges do. do. do. do. do.	650 183-914 400-800 500-600 300-700 305-914 662-1275 610-700 1200 327-1152 548-1029 300-600 400-550	150 51-76 125 130-150 130-150 55-75 60-112 100 138 138 53-144 137-152 102-150	35-105 50-118 39-105 40-115 50-110 98-103 66-88 59-136 34-110 34-110 66-91 43-116 50-115	Sandy loam Sandy loam Deep soil Sandy loam Laterite. Sandy loam Sandy & stony Sandy, Red Lateritic Deep Lateritic Well drained Sandy loam. Deep Mixed soils. Sandy loam do.	III IV-III III-IV IV-a IV-b-III II III-IV IV III III III-IV IV	March-April do. do. do. do. do. do. do. do. do. do. do. do.	May-June do. do. do. do. do. do. do. do. do. do. do. do.	0-02 1-00 — 1-00 0-50 4-00 1-00 0-50 10-00 5-00 20-00 0-10 4-00	N.-Balaghat E.-Chhindwara W.-Chhindwara N.-Seoni S.-Seoni N.-Bastar S.-Bastar Kanker S.-Surguja S.-Surguja Korea Jashpur Narsimhapur	Balaghat do. do. do. do. Bastar do. do. Bilaspur do. do. do. Central

			do.	666	88-9	46-112	Sandy loam Laterite.	IV-b	do.	do.	0 58	Shivpuri	Gwalior
			do.	660	102-152	34-105	Well drained Sandy loam.	II	do.	do.	0-05	S.-Betul	Hoshangabad
			do.	500-700	80-120	40-110	Black cotton Red loam.	IV-a & b	do.	do.	0-02	Hoshangabad	do.
			do.	300-600	80-100	60-104	Laterite	IV, V	do.	do.	15-00	S.-Khandwa	do.
			do.	750	102	50-93	Black cotton	III	do.	do.	20-00	Dewas	Indore
			do.	285-770	115	40-110	Sandy loam	IV	do.	do.	2-00	Dhar	do.
			do.	183-914	51-76	50-118	do.	IV	do.	do.	1-00	E.-Khargone	do.
			do.	42-336	102-152	40-104	Mostly Sandy loam.	III-IV	do.	do.	0-50	S.-Durg	Raipur
			do.	400-600	125	52-114	Sandy	III-II	do.	do.	0-10	E.-Raipur	do.
			do.	300-400	121	40-114	Shallow soil	III	do.	do.	2 00	N.-Panna	Rewa
			do.	400-650	140	104-113	Poor soil	III	do.	do.	1-00	E.-Sidhi	do.
			do.	500-700	125	68-111	Rocky soil	III	do.	do.	0-20	W.-Sidhi	do.
			do.	425-800	125-150	..	Sandy to Sandy loam.	IV-III	do.	do.	1-00	Umaria	do.
30	Bauhenia malabarica.	Amta	All Ranges	625	165	35-105	Sandy	IV	Aug.-Oct.	Jan.-March	0-10	N.-Balaghat	Balaghat
			do.	464	102	50-93	Murram, Sandy loam.	III	do.	do.	0-10	Dewas	Indore
31	Bauhenia retusa	Amti sehra.	All Ranges	650	170	58-122	Sandy loam	III	Sept.-Nov.	Feb.-May	0 10	Kanker	Bastar
32	Bauhenia racemosa	Astra	All Ranges	698	102	50-93	Murram, Sandy loam.	III-IV	March-June	Nov.-Dec.	0-10	Dewas	Indore
			do.	250-770	80	40-110	Rocky, clay soil	IV-a IV-b	do.	do.	0-25	Dhar	do.
33	Bauhenia variegata.	Kachnar	All Ranges	350-700	125	40-115	Sandy loam Laterite.	IV-a IV-b	Feb.-April	May-June	0-10	Jabalpur	Central
			do.	350-770	110	40-110	Well drained sandy.	IV	do.	do.	0-25	Dhar	Indore
34	Bauhenia vahlii	Mahul	All Ranges	100-500	150-175	75-86	All varieties	IV	July	December	0-20	S.-Mandla	Central
35	Bridelia retusa	Kasai	do.	748-1221	53-144	51-106	Sandy loam Rocky.	III	May-Aug.	Jan.-Feb.	0-10	Korea	Bilaspur
			do.	350-700	125	40-115	Sandy loam Laterite.	IV-a & b	do.	do.	0-05	Jabalpur	Central
			do.	660	102-127	105	Black cotton	III	do.	do.	0-01	S.-Betul	Hoshangabad
			do.	500-700	80-120	40-110	Black cotton Red loam.	IV-a & b	do.	do.	0-01	Hoshangabad	do.
36	Buchanania latifolia.	Achar	All Ranges	600	165	35-105	Sandy loam	IV-a	Jan.-March	April to June	0-25	N.-Balaghat	Balaghat
			do.	600-700	130-150	40-115	Clayey loam soil	IV	do.	do.	1-00	N.-Seoni	do.
			do.	662-1275	152	65-87	Sandy & red	IV	do.	do.	2-00	S.-Bastar	Bastar
			do.	650	220	63-140	Bouldry soil	IV	do.	do.	2-00	Kanker	do.
			do.	914	152	35-120	Sandy loam	IV	do.	do.	0-05	Bilaspur	Bilaspur

SEED DIRECTORY OF FOREST DEPARTMENT

S. No.	Botanical name	Local name	Range in which found	Locality factor			Soil type	Quality of locality	Phenology		Approximate quantity of seed that can be available in quintal	Division	Circle			
				Altitude in metres	Rain fall average in cms.	Temperature variation in F.			Time of fruiting	Time of collection						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)			
	Buchanania latifolia.	Achar	All Ranges	300-600	132-152	43-116	Sandy loam	IV	Jan.-March	April to June	2'00	Jashpur	Bilaspur			
			do.	600-700	102	93-102	Black cotton Laterite.	III-IV	do.	do.	2'00	E.-Bhopal	Bhopal			
			do.	464	102	50-93	Murram, Sandy	IV-III	do.	do.	2'00	Dewas	Indore			
			do.	250-770	115	40-110	Sandy loam	III-IV	do.	do.	0'50	Dhar	do.			
			do.	300-400	122	40-114	Shallow soil	III	do.	do.	5'00	N.-Panna	Rewa			
37	Butea monosperma	Palas	All Ranges	650	165	35-105	Clay	IV-b	March-April	May to June	0'10	N.-Balaghat	Balaghat			
			do.	662-1275	152	65-87	Sandy loam Laterite.	IV-III	do.	do.	2'00	S.-Bastar	Bastar			
			do.	580	100	59-140	Black cotton	IV-III	do.	do.	3'00	Kanker	do.			
			do.	600-700	102	93-102	Black cotton	IV-III	do.	do.	5'00	E.-Bhopal	Bhopal			
			do.	300-400	122	40-115	Shallow soil	III	do.	do.	5'00	N.-Panna	Rewa			
			do.	400-650	140	104-113	Clay loam	III	do.	do.	2'00	E.-Sidhi	do.			
			do.	450	125	68-104	Clay & clay loam.	IV	do.	do.	0'05	W.-Sidhi	do.			
			do.	Palas (chola).	do.	666	88-90	46-112	Shallow sandy Laterite.	IV-b	do.	do.	2'50	Shivpuri	Gwalior	
			38	Calotropis gigantea.		All Ranges	464	102	50-93	Sandy loam & Murram.	IV-III	Oct.-Feb.	Oct.-Feb.	0'50	Dewas	Indore
			39	Cephalostachyum pergracile.	Panslibu	All Ranges	305-914	140-190	98-103	Sandy loam	II	Feb -March	May-June	Only when flowers.	N.-Bastar	Bastar
40	Carissa opaca	Karonda	All Ranges	325-1200	138	34-110	Sandy loam	III	April-June	Oct. to Dec.	0'15	N.-Surguja	Bilaspur			
			do.	328-1152	138	34-110	Well drained Sandy loam.	III	do.	do.	0'10	S.-Surguja	do.			
			do.	749-1221	144	66-91	Sandy loam	III	do.	do.	0'50	Korea	do.			
			do.	305-549	89-152	41-107	All soil	IV-b	do.	do.	0'20	Guna	Gwalior			
			do.	600	75-100	50-93	Sandy	IV-b	do.	do.	0'10	Indore	Indore			
			do.	305	138	34-110	Sandy loam	III	April-June	Oct.-Dec.	0'15	N.-Surguja	Bilaspur			
			do.	328-1152	138	34-110	do	III	do.	do.	0'50	S.-Surguja	do.			
			do.	505	89	34-110	do.	IV	do.	do.	0'20	Guna	Gwalior			
			do.	464	102	50-93	Sandy loam Murram.	IV, III	do.	do.	0'50	Dewas	Indore			
			do.	600	100	50-98	do.	IV-b	do.	do.	0'10	Indore	Indore			
			do.	425-600	125-150		Sandy to Sandy loam.	IV	do.	do.	1'00	Umaria	Rewa			

41	Careya arborea	Kumbhi	All Ranges Bori	662 660 500-700	152 102-120 80-120	44-86 34-105 40-110	Sandy loam IV Clayey loam III Black cotton III, IV-b Red loam.	April-May do. do.	June-July do. do.	0.50 0.05 0.05	S.-Bastar South Betul Hoshangabad	Bastar Hoshangabad do.
42	Casearia tomentosa	Tondri Chilala	Ukwa All Ranges	600 464	165 102	35-105 50-93	Sandy loam IV-a Black cotton IV, III	April March-April	June March-April	0.05 0.05	N.-Balaghat Dewas	Balaghat Indore
43	Cassia auriculata	Tarwar	All Ranges	464	102	50-93	Murram III, IV Sandy loam.	Nov.-Dec.	Nov.-Dec.	1.00	Dewas	Indore
44	Cassia fistula	Amaltas	All Ranges do. Narayanpur Chandricolhi All Ranges do. do. do. Malehra All Ranges	305-914 364-1125 290-1065 305-549 660 500-700 464 250-770 305-427 400-650	140-190 144 137-152 89-152 102-127 80-120 102 110 114 140	98-103 66-86 34-116 41-107 34-105 40-110 50-93 40-110 46-114 40-113	Sandy loam II • do. III do. III, IV do. IV Rocky III Black cotton IV-a & Red loam. IV-b Black cotton III, IV Sandy loam IV Brown sandy IV-a loam. All type of soil III	April-June do. do. do. do. do. do. do. do. do.	Jan.-April do. do. do. do. do. do. do. do. do.	1.00 1.00 1.00 0.10 0.05 0.20 1.00 0.50 0.50 1.00	N.-Bastar N.-Bilaspur Jashpur Guna S.-Betul Hoshangabad Dewas Dhar Chhatarpur Sidhi	Bastar Bilaspur do. Gwalior Hoshangabad do. Indore do. Rewa do.
45	Cassia tora	Panwar Puwadia	All Ranges do.	662-1275 464	152 102	65-87 50-93	Sandy & Red III, IV Sandy loam IV-b Murram.	Feb.-March Oct.-Nov.	March Oct.-Nov.	0.10 0.50	S.-Bastar Dewas	Bastar Indore
46	Celastrus paniculata	Mal- kangni	All Ranges	464	102	50-93	Black cotton IV, III sandy.	Oct.-Jan.	Oct.-Jan.	0.01	Dewas	Indore
47	Chlorophytum attermtum.	Safed Musli Dhuli Musli	Balaghat All Ranges	600 464	152 102	35-105 50-93	Sandy loam III, IV Sandy loam III, IV	Feb.-March Oct.-Nov.	July-Aug. Oct.-Nov.	0.01 0.02	S.-Balaghat Dewas	Balaghat Indore
48	Chloroxylon swietenia.	Bhirra	All Ranges do. do. Budhni All Ranges do. do. do.	662-1275 300-600 600-700 517 400-550 350-700 660 500-700 560-700	152 137-152 101 115 100-150 125 102-127 80-120 125	65-87 63-116 93-102 93-102 50-115 40-115 34-105 40-110 68-104	Sandy loam III, IV and Red. Sandy loam IV Sandy & Red IV, III Laterite. Laterite IV Sandy loam & IV-b Black cotton. Sandy loam IV-a, IV-b Laterite. Black cotton III Black cotton IV-a & Red loam. IV-b Sandy to III- Rocky soil.	March-April do. do. do. do. do. do. do. do. do.	June-Sept. do. do. do. do. do. do. do. do. do.	0.50 0.20 0.50 0.50 0.75 0.20 0.10 0.20 0.05	S.-Bastar Jashpur E.-Bhopal W.-Bhopal Narsimhapur Jabalpur S.-Betul Hoshangabad W.-Sidhi	Bastar Bilaspur Bhopal do. Central Central Hoshangabad do. Rewa

SEED DIRECTORY OF FOREST DEPARTMENT

S. No.	Botanical name	Local name	Range in which found	Locality factor			Soil type	Quality of locality	Phenology		Approximate quantity of seed that can be available in quintal (12)	Division	Circle
				Altitude in metres (5)	Rain fall average in cms. (6)	Temperature variation in F. (7)			Time of fruiting	Time of collection			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
49	Cleistanthus collinus	Karra	All Ranges	300-600	127-152	35-85	Sandy loam	III	April-May	March-April	2-00	S.-Balaghat	Balaghat
			do.	500	150	40-115	Laterite	IV-a	do.	do.	2-00	N.-Seoni	do.
			do.	500	135	50-110	Laterite, Sandy loam.	IV-b	do.	do.	2-00	S.-Seoni	do.
			do.	50-670	170	45-106	Sandy loam	II	do.	do.	2-00	E.-Bastar	Bastar
			do.	304-914	140-190	98-103	do.	II	do.	do.	2-00	N.-Bastar	Bastar
			do.	580	100	50-93	do.	III	do.	do.	1-00	Kanker	do.
			Pandaria Baloda.	274	152	70-120	Sandy	IV	do.	do.	0-50	Bilaspur	Bilaspur
			All Ranges	336-612	102-152	40-110	Sandy loam.	IV, III	do.	do.	0-10	S.-Durg	Raipur
			do.	400-600	125	50-112	Sandy loam	II, III	do.	do.	1-00	E.-Raipur	do.
			do.	400	146	50-112	do.	IV, III	do.	do.	2-00	S.-Raipur	do.
do.	325-450	130-150	80-105	Red & Sandy loam.	III	do.	do.	1-00	N.-Raipur	do.			
50	Cochlospermum religiosum.	Galgal	Keolari	500-600	130-150	40-115	Sandy stone and murrum.	IV-b	Feb.-March	May-June	0-50	N.-Seoni	Balaghat
			do.	All Ranges	464	102	50-93	Black cotton	III, IV	do.	do.	0-50	Dewas	Indore
51	Cordia Myxa	Lasera	Ukwa	600	115	35-105	Sandy loam	IV-a	March-May	June-August	0-02	N.-Balaghat	Balaghat
			All Ranges	350-700	125	40-115	Sandy loam laterite.	IV-a, IV-b	do.	do.	0-01	Jabalpur	Central
52	Coix gigantea	Bhos	All Ranges	304-914	139-190	98-108	Sandy loam	II	Feb.-March	May-June	0-50	N.-Bastar	Bastar
53	Cymbopogon martinii.	Rusa grass.	All Ranges	1000	120	37-103	Deep loam	IV	September	December	0-10	E.-Chhindwara	Balaghat
		Tikbadi	Kanhan Borpani.	400-700	103	37-107	Deep loam with alluvial deposit in valleys.	III, IV	do.	do.	0-10	S.-Chhindwara	do.
		Rusa grass.	All Ranges	327-1152	137	34-110	Well drained sandy loam.	III*	Dec.-January	April-May	0-05	S.-Surguja	Bilaspur
		do.	do.	748-1221	53-144	51-106	Sandy loam rocky soil.	III	Dec.-October	November	0-05	Korea	do.
		do.	do.	305	88-152	34-110	Sandy loam with boulder.	IV-b	November	December	0-01	Guna	Gwalior
		do.	Bhaisdehi	660	101-152	34-105	Black cotton with boulder.	III	Nov.-Dec.	December	0-01	S.-Betul	Hoshangabad
		Rusa	All Ranges	300-600	80-110	49-108	All type of soil.	IV	Sept.-October	October-Nov.	0-05	S.-Khandwa	do.

	do.	do.	464	102-00	50-93	Sandy loam III, IV Murrum.	do.	do.	0-25	Dewas	Indore	
	do.	do.	250-600	75-100	50-93	Sandy loam IV-b with boulder.	Aug.-Sept.	Dec.-October	0-05	Indore	do.	
	do.	Mathwad	300-400	80	60-115	Alluvial soil IV, III	Sept.-October	October.-Nov.	0-50	Jhabua	do.	
	do.	All Ranges	600-2000	50-76	50-118	Semi black IV	April	May	0-20	E.-Khargone	do.	
	do.	Pati Pansened	350-400	63-76	60-90	Red grey III & IV	Nov.-Dec.	Nov.-Dec.	0-20	W.-Khargone	do.	
54	Dalbergia latifolia	Shisham	All Ranges	650	165	35-105	Sandy loam IV-a	September	March-April	0-02	N.-Balaghat	Balaghat
			do.	500-1000	115	37-103	do. III-IV	do.	do.	0-10	E.-Chhindwara	do.
			do.	400-700	103	37-107	do. III-IV	do.	do.	0-20	S.-Chhindwara	do.
			do.	800	125	37-103	do. III-IV	do.	do.	0-20	W.-Chhindwara	do.
			do.	478	170	45-106	do. II-III	do.	do.	1-00	E.-Bastar	Bastar
			do.	662-1275	152	65-87	do. IV	do.	do.	0-10	S.-Bastar	do.
			do.	200-290	167	100-105	do. II-III	do.	do.	0-50	W.-Bastar	do.
			do.	1216	152	35-110	do. IV	do.	do.	0-20	Bilaspur	Bilaspur
		Sarangarh and Ghargoda.	198-982	152	82-108	Clayey loam III	do.	do.	2-00	Raigarh	do.	
		All Ranges	548-1029	53-144	51-106	Sandy loam III-IV Rocky.	do.	do.	2-00	Korea	do.	
		do.	305-549	88-152	41-109	Sandy loam IV	do.	do.	0-20	Guna	Gwalior	
		do.	660	102-127	34-105	do. III	do.	do.	0-20	S.-Betul	Hoshangabad	
		do.	500-700	80-120	80-110	Black cotton III-IV-b Red loam.	do.	do.	0-05	Ho-hangabad	do.	
		do.	464	102	50-93	Sandy loam III-IV Rocky.	do.	do.	0-20	Dewas	Indore	
		do.	450-1100	130-150	80-105	Red loamy soil. III	do.	do.	0-50	N.-Raipur	Raipur	
		do.	800	114	41-91	Sandy loam & Black cotton. III	do.	do.	0-50	S.-Shahdol	Rewa	
		Karkali	500-700	125	40-104	Sandy to Sandy loam. IV	do.	do.	0-20	Umaria	do.	
55	Dalbergia paniculata	Phansi	All Ranges	600-700	101	42-101	Laterite soil III-IV	April-June	April-June	0-20	E.-Bhopal	Bhopal
			do.	650-700	125	40-115	Sandy loam IV-a & b laterite.	do.	do.	0-05	Jabalpur	Central
			do.	464	102	50-93	Black cotton IV	do.	do.	0-50	Dewas	Indore
56	Dalbergia Sissoo	Sissoo	Baikunthpur	548-1029	53-145	66-91	Sandy loam III	March-April	Dec.-Jan.	1-00	Korea	Bilaspur
		do.	Kundam	350-700	125	40-115	Sandy loam IV-a & b laterite.	do.	do.	0-10	Jabalpur	Central
		Shisham	Bhind-Gwalior	400	74-127	32-116	Alluvium III	do.	do.	5-00	Gwalior	Gwalior
		Sissoo	All Ranges	210-480	76-78	75-84	Sandy loam IV-b	do.	do.	1-00	Sheopur	do.
		do.	do.	400	125	68-111	do. III	do.	do.	0-10	W.-Sidhi	Rewa
57	Diospyros melanoxylon	Tendu	Ukwa	600	165	35-105	Sandy loam IV-a	April-June	April-June (Next).	0-09	N.-Balaghat	Balaghat
		do.	All Ranges	500-1000	115	37-103	Murrum sandy III loam.	do.	do.	1-00	E.-Chhindwara	do.

SEED DIRECTORY OF FOREST DEPARTMENT

S. No.	Botanical name	Local name	Range in which found	Locality factor			Soil type	Quality of locality	Phenology		Approximate quantity of seed that can be available in quintal (12)	Division	Circle
				Altitude in metres (5)	Rain fall average in cms. (6)	Temperature variation in F. (7)			Time of fruiting (10)	Time of collection (11)			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Diospyros melanoxylon.	Tendu	All Ranges	50-670	170	45-106	Sandy loam	II, III	April-June	April-June (Next).	1.00	E.-Bastar	Bastar
	do.	do.	do.	662-1275	152	65-87	Sandy loam	IV	do.	do.	1.00	S.-Bastar	do.
	do.	do.	do.	600-700	120-127	59-140	Sandy loam	III	do.	do.	2.00	Kanker	do.
	do.	do.	do.	914	152	32-120	do.	IV	do.	do.	1.00	Bilaspur	Bilaspur
		do.	do.	363-1097	143	66-86	do.	III	do.	do.	2.00	N.-Bilaspur	do.
		do.	do.	325-1200	138	34-110	Murram, Sandy loam.	III	do.	do.	25.00	N.-Surguja	do.
		do.	do.	327-1127	138	34-110	Well drained sandy loam.	III	do.	do.	5.00	S.-Surguja	do.
		do.	do.	549-1029	53-144	66-91	Murram, Sandy loam.	III	do.	do.	5.00	Korea	do.
		do.	do.	600-700	100	42-101	Black cotton	III-IV	do.	do.	5.00	E.-Bhopal	Bhopal
		do.	do.	100-500	150-175	42-104	Murram, Sandy loam.	III	do.	do.	5.00	S.-Mandla	Central
		do.	do.	400-550	100-150	50-115	Sandy loam	IV	do.	do.	5.00	Narsimhapur	Central
		do.	do.	300-600	137-152	43-116	Black cotton.	III-IV	do.	do.	5.00	Jabalpur	do.
		do.	do.	305-549	89-152	41-109	do.	IV	do.	do.	5.00	Guna	Gwalior
		do.	do.	666	88-90	46-112	Sandy loam	IV-b	do.	do.	1.00	Shivpuri	Shivpuri
		do.	do.	660	102-127	34-105	Laterite.						
		do.	do.	660	102-127	34-105	Murram, Sandy loam.	III	do.	do.	0.10	Betul	Hoshangabad
		do.	do.	500-700	80-120	40-110	Black cotton	III & IV-b	do	do.	0.20	Hoshangabad	do.
		do.	do.	464	102	50-93	Red loam						
		do.	do.	464	102	50-93	Murram, Sandy loam.	III-IV	do.	do.	10.00	Dewas	Indore
		do.	do.	250-770	118	40-110	do.						
		do.	do.	250-600	75-100	40-110	Sandy loam	IV	do.	do.	5.00	Dhar	do.
		do.	do.	250-600	75-100	40-110	Murram, Sandy loam.	IV-b	do.	do.	0.20	Indore	do.
		do.	do.	336-612	102-152	40-104	do.						
		do.	do.	336-612	102-152	40-104	Mostly Sandy loam.	III-IV	do.	do.	1.00	S.-Durg	Raipur
		do.	do.	400-600	125	52-114	do.						
		do.	do.	400-650	140	104-113	Sandy loam	II-III	do.	do.	2.00	E.-Raipur	do.
		do.	do.	400-650	140	104-113	All type of soil	III	do.	do.	1.00	E.-Sidhi	Rewa
		do.	do.	450-700	125	68-111	Sandy loam	III	do.	do.	0.50	W.-Sidhi	do.
58	Dioscorea hispida.	Baichandi	All Ranges	304-914	139-190	96-103	Sandy loam	II	June-July	April-May	0.01	N.-Bastar	Bastar
			Bori, Bagda	500-700	80-120	40-110	Black cotton	III/IV-b	March	April	0.01	Hoshangabad	Hoshangabad
							red loam.						

59	<i>Dendrocalamus strictus.</i>	Bans	All Ranges	300-600	127-152	35-85	Black cotton	III	Nov.-Feb.	April-June	Only when gregarious flowering occurs.	S.-Balaghat	Balaghat
			do.	500-600	130-150	40-115	Clayey loam	IV-b, III	do.	do.	do.	N.-Seoni	do.
			do.	500-600	130-150	50-110	do.	IV-b, III	do.	do.	do.	S.-Seoni	do.
			do.	662-1275	152	65-87	Sandy loam	IV	do.	do.	do.	S.-Bastar	Bastar
			do.	600-700	101	93-102	Sandy loam	IV-III	do.	do.	do.	E.-Bhopal	Bhopal
			do.	100-500	150-175	42-104	All varieties	...	do.	do.	do.	S.-Mandla	Central
			do.	305-549	89-152	41-109	Sandy to sandy loam.	IV-b	do.	do.	30-00	Guna	Gwalior
			do.	464	102	50-93	Sandy loam	III-IV	do.	do.	Only when gregarious flowering occurs.	Dewas	Indore
			do.	...	...	...	...	...	do.	do.	do.	E.-Khargone	do.
			do.	350-400	154-192	60-90	Black cotton	IV	do.	do.	do.	W.-Khargone	do.
			do.	300-400	121	40-114	Shallow soil	III	do.	do.	do.	N.-Panna	Rewa
			do.	425-800	425-800	40-115	Sandy to sandy loam.	III	do.	do.	do.	Umaria	do.
60	<i>Dichanthium annulatum.</i>	Kail, Marwel	Bhopal	1300	115	42-101	Laterite	IV	October	November	0-25	W.-Bhopal	Bhopal
61	<i>Dodonia viscosa</i>	Jangli Mehandi	All Ranges	350-700	125	40-115	Sandy loam Laterite.	IV-a & b	Feb.-April	July-August	0-02	Jabalpur	Central
62	<i>Ehretia laevis</i>	Datranga	All Ranges	350-700	125	40-115	Sandy loam Laterite.	IV-a, IV-b	Feb.-March	March-June	0-01	Jabalpur	Central
		Tambdia	do.	464	102	50-93	Black cotton	III-IV	do.	do.	0-25	Dewas	Indore
63	<i>Elæodendron glaucum.</i>	Jamrasi	All Ranges	660	102-127	34-115	Black cotton Rocky.	III-IV-b	December	February	0-10	S.-Betul	Hoshangabad
64	<i>Elionurushirsutis</i>	Soran	All Ranges	464	102	50-93	Sandy loam Murrum.	IV-III	Oct.-Dec.	Oct.-Dec.	0-25	Dewas	Indore
65	<i>Emblica officinalis</i>	Aoula	All Ranges	650	165	35-105	Black cotton	IV-a	March-May	Nov.-Feb.	5-00	N.-Balaghat	Balaghat
			do.	50-670	170	45-106	Sandy loam	II/III	do.	do.	5-00	E.-Bastar	Bastar
			do.	304-914	180-190	98-103	Sandy sandy clayey.	III	do.	do.		N.-Bastar	do.

SEED DIRECTORY OF FOREST DEPARTMENT

S. No.	Botanical name	Local name	Range in which found	Locality factor			Soil type	Quality of locality	Phenology		Approximate quantity of seed that can be available in quintal (12)	Division	Circle
				Altitude in metres (5)	Rain fall average in cms. (6)	Temperature variation in F. (7)			Time of fruiting (10)	Time of collection (11)			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	<i>Emblica officinalis</i>	Aoula	All Ranges	662-1275	152	65-87	Sandy loam Red.	IV	March-May	Nov.-Feb.	5.00	S.-Bastar	Bastar
			do.	500-600	76-152	45-106	Sandy	IV	do.	do.	8.00	Kanker	do.
			do.	548-1029	144	93-144	Sandy loam	III	do.	do.	8.00	Korea	Bilaspur
			do.	290-1060	137-152	35-116	Sandy loam	III-IV	do.	do.	4.00	Jashpur	do.
			do.	600-700	101	42-101	Laterite	III-IV	do.	do.	10.00	E.-Bhopal	Bhopal
			do.	700	102	50-93	Sandy loam	III-IV	do.	do.	10.00	Dewas	Indore
			do.	250-770	95	40-110	Sandy loam	III	do.	do.	3.00	Dhar	do.
			do.	400-600	125	40-112	do.	II/III	do.	do.	0.10	E.-Raipur	Raipur
			do.	450-500	125	68-111	do.	III	do.	do.	0.50	W.-Sidhi	Rewa
			do.	425-700	125-150	40-115	Sandy to sandy loam.	IV-b	do.	do.	5.00	Umaria	do.
66	<i>Embelia robusta</i>	Baibirang	All Ranges	650	165	35-105	Sandy loam	IV-b	July-Nov.	November	1.00	N.-Balaghat	Balaghat
			Amroti,	60-670	170	45-106	Sandy loam	II/III	Dec.-Jan.	Dec.-Jan.	1.00	E.-Bastar	Bastar
			Kanger geedam.										
			All Ranges	364-1226	143	66-86	Sandy to clay loam.	III		Sept.-Nov.	0.50	N.-Bilaspur	Bilaspur
			do.	325-1200	138	34-110	Sandy loam	III	Sept.-Oct.	Dec.-Jan.	2.00	N.-Surguja	do.
			do.	327-1152	138	34-110	Well drained sandy loam.	III	Sept.-Oct.	Dec.-Jan.	0.50	S.-Surguja	do.
			do.	198-982	152	82-108	Granite gneisses.	III	Jan.-Feb.	May-June	0.50	Raigarh	do.
			do.	600-1000	137-165	35-104	Laterite	III	Nov.-Jan.	Dec.-Jan.	0.50	Jashpur	do.
			do.	305-549	89-152	41-109	All type of soil.	IV-b	December	January	0.25	Guna	Gwalior
			do.	400-600	125	40-112	Sandy loam	II/III	January	February	0.20	E.-Raipur	Raipur
67	<i>Eragrostis Blera</i>	Phuler	All Ranges	464	102	50-93	Sandy loam Murram.	III/IV	Oct.-Dec.	Oct.-Dec.	0.05	Dewas	Indore
68	<i>Eragrostis trimula</i>	Bhur-bhusi	All Ranges	327-1152	137	34-110	Well drained sandy loam.	III	Nov.-Dec.	April-May	0.05	S.-Surguja	Bilaspur
		do.	do.	464	102	50-93	Sandy loam Murram.	III/IV	Oct.-Dec.	Oct.-Dec.	0.05	Dewas	Indore
69	<i>Eriolæna hookariana.</i>	Banjari	All Ranges	699	102	50-93	Black cotton	III	May-April	May-April	0.05	Dewas	Indore
70	<i>Etionurus hirsutus</i>	Seran	Indore	250-600	75-100	50-93	Sandy loam	IV	Aug.-Sept.	Dec.-Oct.	0.05	Indore	Indore

71	<i>Eulaliopsis lunata</i>	Sahai	All Ranges	662	152	65-87	Sandy loam IV Red soil.	September	Sept.-Oct.	0-05	S.-Bastar	Bastar
			do.	364-1125	144	66-86	Sandy clay III		October	0-05	N.-Bilaspur	Bilaspur
			do.	1152	137	34-110	Well drained III sandy loam.	Nov.-Dec.	April-May	0-10	S.-Surguja	do.
			do.	549-1125	57	66-104	Sandy loam & IV Rocky.	May	May	0-50	Korea	do.
			do.	350-700	125	40-115	Sandy loam IV-a IV-b Laterite.	Sept.-Oct.	October	0-05	Jabalpur	Central
		Bagai	do.	425-700	125-150	40-115	Sandy to III Sandy loam.	Aug.-Sept.	October	0-05	Umaria	Rewa
72	<i>Elaeodendron glaucom.</i>	Jamrasi	All Ranges	305-549	89-152	41-109	Murram, Sandy IV loam.	Feb.-June	Nov.-Jan.	0-20	Guna	Gwalior
			do.	660	102-127	34-105	Black cotton III	Sept.-Dec.		0-10	S.-Betul	Hoshangabad
73	<i>Eranthemum pulchellum.</i>	Bantulsi	Jagdapur, Amroti, Machholi Kanger	50-670	170	45-106	Sandy loam III	April	May	0-02	E.-Bastar	Bastar
74	<i>Ficus bengalensis</i>	Bar	Baihar All Ranges do.	575 290-800 464	165 137-152 102	35-105 34-116 104-126	Sandy loam IV-a In all type IV-III Murram, Sandy III-IV loam.	April do. do.	March-May do. do.	1-00 0-50 0-50	N.-Balaghat Jashpur Sagar	Balaghat Bilaspur Bhopal
			do.	464	102	50-93	Murram, Sandy III-IV loam.	do.	do.	1-00	Dewas	Indore
75	<i>Ficus infectoria</i>	Phipar	All Ranges	464	102	50-93	Black cotton III-IV	May-June	June-Aug.	0-50	Dewas	Indore
76	<i>Ficus glamerata</i>	Gular	All Ranges do.	300-600 464	137-152 102	35-110 50-93	Sandy loam III Black cotton III-IV	April-June April-July	March-July do.	0-50 0-20	Jashpur Dewas	Bilaspur Indore
77	<i>Ficus religiosa</i>	Pipal	All Ranges	464	102	50-93	Black cotton III-IV	April-May	March-June	0-50	Dewas	Indore
78	<i>Flacourtia iodica</i> <i>F. ramontehi.</i>	Kakai	All Ranges	305-549	89-152	41-107	All type IV-b	Dec.-March	March-July	0-20	Guna	Gwalior
		do.	do.	464	102	50-93	Black cotton III-IV	do.	do.	0-10	Dewas	Indore
79	<i>Gardenia resnifera</i> <i>Gardenia lucida.</i>	Dikamali	All Ranges	327-1152	138	34-110	Well drained III sandy loam.	Nov.-Dec.	May-June	0-25	S.-Surguja	Bilaspur
80	<i>Gardenia gummi-fera</i>	Dikamali	All Ranges	698	102	50-93	Black cotton III	Nov.-Jan.	Nov.-Jan.	0-02	Dewas	Indore
81	<i>Gardenia latifolia</i>	Papra Pakhana kurbo papra. Papra	Chhapara All Ranges do. do. do.	600-700 36-825 327-1152 500-700 464	130 170 138 100-120 102	40-115 45-106 34-110 40-110 50-93	Clayey loam IV-a Sandy loam II/III and clay. Well drained III sandy. Black cotton III-IV Red loam. Black cotton III	Nov.-Dec. do. Nov.-Dec. Nov.-Jan. Nov.-Dec.	Feb.-March do. May-June Dec.-Feb. Nov.-Dec.	0-50 0-02 0-10 0-20 0-05	N.-Seoni E.-Bastar S.-Surguja Hoshangabad Dewas	Balaghat Bastar Bilaspur Hoshangabad Indore

SEED DIRECTORY OF FOREST DEPARTMENT

S. No.	Botanical name	Local name	Range in which found	Locality factor			Soil type	Quality of locality	Phenology		Approximate quantity of seed that can be available in quintal (12)	Division	Circle
				Altitude in metres (5)	Rain fall average in cms. (6)	Temperature variation in F. (7)			Time of fruiting (10)	Time of collection (11)			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
82	Gardenia turgida	Phetra	All Ranges	327-1152	138	34-110	Well drained sandy loam.	III	March-April	May-June	0-10	S.-Surguja	Bilaspur
			do.	464	102	50-93	Sandy	III	do.	do.	0-05	Dewas	Indore
83	Garuga pinnata	Kakad Ghoger	All Ranges	300-600	127-137	43-116	Sandy loam	III-IV	Feb.-March	July-Sept.	1-00	Jashpur	Bilaspur
			do.	350-700	125	40-115	Sandy loam Laterite.	IV-a & b	do.	do.	0-20	Jabalpur	Central
			do.	464	102	50-93	Murram and Sandy loam.	III-IV	do.	do.	0-20	Dewas	Indore
84	Gmelina arborea	Khamar	All Ranges	600	165	35-105	Sandy loam	IV	Feb -April	April-July	0-05	N.-Balaghat	Balaghat
			do.	548-1029	53	37-103	do.	III-IV	do.	do.	0-50	E.-Chhindwara	do.
			do.	400-700	103	37-107	Deep sandy	III-IV	do.	do.	0-20	S.-Chhindwara	do.
		Siwan	do.	800	125	37-105	Sandy deep soil	III-IV	do.	do.	0-20	W.-Chhindwara	do.
			do.	36-825	170	45-106	Sandy loam & clay.	II-III	do.	do.	1-00	E.-Bastar	Bastar
			do.	662	152	65-87	Sandy loam Heavy red.	IV	do.	do.	1-00	S.-Bastar	do.
		Gamari	do.	580	120	58-106	Rocky	IV	do.	do.	0-20	Kanker	do.
		Khamer	do.	480	152	35-118	Sandy loam	IV	do.	do.	0-20	Bilaspur	Bilaspur
			do.	325-1200	138	34-110	Sandy loam	III	do.	do.	1-00	N.-Surguja	do.
			do.	327-1152	138	34-110	Well drained Sandy loam.	III	do.	do.	1-00	S.-Surguja	do.
		Gamari	do.	548-1029	53-144	106	Sandy loam	III	do.	do.	1-00	Korea	do.
		Khamer	do.	300-600	137-152	45-110	Sandy loam	III-IV	do.	do.	0-50	Jashpur	do.
		Sewan	do.	100-500	150-175	76	Alluvial	III-IV	do.	do.	1-00	S.-Mandla	Central
			do.	350-700	125	40-115	Sandy loam Laterite.	IV-a & b	do.	do.	0-50	Jabalpur	do.
		Gamari	do.	305	89	41-107	Sandy loam	IV-b	do.	do.	0-05	Guna	Gwalior
		Khamer	do.	370-600	125	34-107	Murram, Sandy loam.	IV	do.	do.	0-05	N.-Betul	Hoshangabad
			do.	660	102-127	34-105	Murram, Sandy loam	IV	do.	do.	0-10	S.-Betul	do.
		Siwan	do.	500-700	80-120	40-110	Black cotton Red loam.	III/IV-b	do.	do.	0-01	Hoshangabad	do.
		do.	do.	464	102	50-93	Murram, Sandy Clayey	III/IV	do.	do.	0-05	Dewas	Indore
		Sewan	do.	350-770	115	40-110	Clayey	IV, V	do.	do.	0-05	Dhar	do.
		Gamari	do.	300-350	63-76	60-80	Red and grey alluvium.	IV-III	do.	do.	0-10	W.-Khargone	do.
		Khamer	do.	850-1100	140-150	80-105	Red loam	II-III	do.	do.	0-20	N.-Raipur	Raipur

		do.	800	114	41-91	Sandy loam & III Balek cotton.	do.	do.	0-20	S.-Shahdol	Rewa	
85	Grewia hirsuta	Gudsa-kari	Balaghat	600	152	35-105	Sandy III	Jan.-Dec.	Feb.-March	0-10	S.-Balaghat	Balaghat
			All Ranges	304-914	140-190	98-103	Sandy & sandy II-III clay.	April-May	Dec. Jan.	0-10	N.-Bastar	Bastar
		do.		464	102	40-104	Sandy loam III-IV murrum.	Nov.-Dec.	Nov.-Dec.	0-10	Dewas	Indore
86	Grewia tiliaefolia	Dhaman	All Ranges	650	165	35-105	Sandy IV-a	March	July	0-01	N.-Balaghat	Balaghat
			do.	304-914	139-190	98-103	Sandy loam III-II	March-April	August	0-02	N.-Bastar	Bastar
		do.		662	152	65-87	Sandy clay, Sandy loam IV	April-June	June-July	0-20	S.-Bastar	do.
		do.		363	143	35-118	Heavy red, Sandy III	September	November	0-50	N.-Bilaspur	Bilaspur
		do.		350-700	125	40-115	Sandy loam IV-a & b	April-May	June-July	0-20	Jabalpur	Central
		do.		305-549	88-152	41-107	laterite, All type of soil IV-b	July	August	0-10	Guna	Gwalior
		do.		660	102-127	40-105	Black cotton III-IV	Sept.-Oct.	Nov.-Dec.	0-10	S.-Betul	Hoshangabad
		do.		500-700	80-120	40-110	Black cotton III-IV-b	Sept.-Oct.	November	0-05	Hoshangabad	do.
		do.		464	102	50-93	Red loam, Black cotton III	September	Nov.-Dec.	0-02	Dewas	Indore
		do.		250-770	110	40-110	Moist clay IV	July-Aug.	September	0-05	Dhar	do.
87	Gymnosporia montavia	Baikal	All Ranges	462	152	65-87	Sandy loam & IV/V Heavy red.	Dec.-March	Feb.-March	0-20	S.-Bastar	Bastar
		do.	do.	464	102	50-93	Sandy loam III/IV & Murrum.	Sept.-Jan.	Sept.-Jan.	1-00	Dewas	Indore
		do.	Indore	250-600	75-100	40-104	Sandy loam IV-b	Sept.-Oct.	Dec.-Jan.	0-50	Indore	do.
88	Hardwickia binata	Anjan	All Ranges	650	165-00	35-105	Sandy IV-a	July-Sept.	April-May	0-15	N.-Balaghat	Balaghat
		do.	do.	1029	125-00	105	Sandy loam III	do.	do.	5-00	W.-Chhindwara	do.
		do.	do.	662	152-00	65-87	Sandy loam IV/V	do.	do.	0-50	S.-Bastar	Bastar
		do.	Narsimhapur	400-550	100-150	50-115	Heavy red IV	do.	do.	2-00	Narsimhapur	Central
		do.	All Ranges	300-400	70-75-00	66-113	Clay IV	do.	do.	0-20	N.-Khandwa	Hoshangabad
		do.	do.	300-600	80-100-00	42-150	Laterite IV/III	do.	do.	1-00	S.-Khandwa	do.
		do.	do.	464	102-00	50-93	Sandy loam IV	do.	do.	1-00	Dewas	Indore
		do.	do.	350-550	110-00	40-110	Shallow & IV-b alkaline,	do.	do.	2-00	Dhar	do.
		do.	Mhow	600	100-00	35-105	Sandy IV-b	do.	do.	3-00	Indore	do.
		do.	All Ranges	1029	76-00	40-104	Semi-Black IV cotton.	do.	do.	1-00	E.-Khargone	do.
		do.	Pati	350-400	63-76-00	60-90	Red IV/III	do.	do.	3-00	W.-Khargone	do.
89	Heteropogon contortus.	Kusal & Sural.	All Ranges	550	165-00	35-105	Sandy IV-b	November	January	0-02	N.-Balaghat	Balaghat
		do.	do.	600	152-00	35-105	do. III/IV	Dec.-Jan.	February	0-05	S.-Balaghat	do.
		Kusal	do.	198-982	152-00	88-108	do. III	do.	Feb.-March	0-20	Raigarh	Bilaspur

SEED DIRECTORY OF FOREST DEPARTMENT

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				Altitude in metres (5)	Rain fall average in cms. (6)	Temperature variation in F. (7)			Time of fruiting (10)	Time of collection (11)			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Heterpogon contortus.	Kusal	All Ranges	328-1152	138.00	34-110	Well drained and sandy loam.	III	Nov.-Dec.	March-April	0.10	S-Surguja	Bilaspur
		Kusal, Sural & Lampa.	do.	350-700	125.00	40-111	Sandy loam Laterite.	IV-a and IV-b	Sept.-Oct.	October	0.10	Jabalpur	Central
		Sukli	do.	464	102.00	50-93	Sandy	III/IV	Oct.-Dec.	Oct.-Dec.	0.25	Dewas	Indore
			Singhpur, Dhamtari, & Risgoan.	300-400	146.00	50-112		III-IV	Oct.-Jan.	Feb.-March	0.50	S-Raipur	Raipur
90	Helictres isora	Marod phal	All Ranges	600	152.00	35-105	Sandy loam	III/IV	July-August	Dec.-Jan.	0.25	S-Balaghat	Balaghat
			do.	662	152.00	65-87	Sandy loam Heavy red.	IV	do.	do.	0.10	S-Bastar	Bastar
			do.	1125	143.00	41-107	Sandy	III	do.	do.	0.50	N-Bilaspur	Bilaspur
			do.	1200	138.00	34-110	Sandy loam	III	do.	do.	0.25	N-Surguja	do.
			do.	328-1152	138.00	34-110	Well drained sandy loam.	III	do.	do.	0.50	S-Surguja	do.
			Chirmiri	549-1029	53.00	66-91	Sandy loam	III/IV	do.	do.	0.50	Korea	do.
			All Ranges	600-700	101.00	42-101	Sandy loam	III/IV	do.	do.	1.00	E-Bhopal	Bhopal
			do.	400-550	100-150	50-115	Variety of soil	IV-b	do.	do.	0.50	Narsimhapur	Central
			do.	350-700	125.00	40-115	Sandy loam Laterite.	IV-a & IV-b	do.	do.	0.20	Jabalpur	Central
			do.	305-549	89-152	41-108	All type	IV-b	do.	do.	0.01	Guna	Gwalior
			do.	660	102-127	34-105	Black cotton Trap.	IV-a	do.	do.	0.01	S-Betul	Hoshangabad
			do.	464	102.00	50-93	Sandy loam Murrum.	III/IV	do.	do.	0.20	Dewas	Indore
			Mhow, Manpur.	250-600	75-100	72-80	Sandy loam	IV-b	do.	do.		Indore	do.
		Rinathi	All Ranges	425-700	125-150	40-115	Sandy	III	do.	do.	0.50	Umaria	Rewa
91	Holarrhena antidysenterica.	Indrajava	Ukwa	550	165	35-105	Sandy loam	IV	May-June	Feb.-April	0.02	N-Balaghat	Balaghat
		Kudo	Balaghat	600	102	35-105	Sandy	III/IV	do.	do.	0.05	S-Balaghat	do.
		Khurchi	All Ranges	36-825	170	45-106	Sandy loam and Rocky.	II/III	do.	do.	0.02	E-Bastar	Bastar

		Indrajava Chirmiri	305 1029	145	66-91	Sandy loam	III/IV	do.	do.	0.50	Korea	Bilaspur
		Kurchi Narayanpur Indrajava All Ranges	300-1000 350-700	137-165 125	63-110 40-115	All type Sandy loam	IV IV-a & b	do. do.	do. do.	0.50 0.20	Jashpur Jabalpur	do. Central
		Dudhi do.	660	102-127	34-105	Black cotton Trap.	IV-a	do.	do.	0.25	S-Betul	Hoshangabad
		do. do.	464	102	50-93	do.	III	do.	do.	0.20	Dewas	Indore
		do. do.	400	146	50-112	do.	III/IV	do.	do.	0.10	S-Raipur	Raipur
92	Holoptelia integrifolia.	Chirol All Ranges	305-700	125	40-115	Sandy loam	IV-a & b	Feb.-April	April-May	0.05	Jabalpur	Central
		do. do.	549	122	41-108	Laterite. Alluvial soil	IV-b	do.	do.	0.01	Guna	Gwalior
		do. do.	464	101	50-93	do.	III/IV	do.	do.	0.05	Dewas	Indore
		do. do.	450-500	125	68-111	Loamy to sandy loam.	III	do.	do.	0.05	W-Sidhi	Rewa
93	Hymenodictyon excelsum.	Bhorsal All Ranges	662	152	65-87	Sandy loam	IV/V	June-August	April-May	0.05	S-Bastar	Bastar
		do. do.	660	122	34-105	Black cotton	III/IV	do.	do.	0.05	S.-Betul	Hoshangabad
		do. do.	464	102	50-93	Murram Sandy loam.	III/IV	do.	do.	0.01	Dewas	Indore
94	Imperata cylindrica	Chhir Keolan	500-600	130 150	40-115	Clayey loam	III/IV	Oct.-Nov.	Dec.-Jan.	1.00	N-Seoni	Balaghat
		All Ranges	500-600	150	50-110	do.	III IV	do.	do.	0.20	S-Seoni	do.
		do. do.	60-825	170	45-106	Sandy loam	II/III	February	March	0.10	E-Bastar	Bastar
		do. do.	304-914	140-190	98-103	Sandy loam sandy clay.	III/II	Feb.-March	May-June	0.10	N-Bastar	Bastar
		do. do.	327-1152	137	34-110	Well drained sandy.	III	Nov.-Dec.	April-May	0.10	S-Surguja	Bilaspur
		Chirmiri	548-1029	53-145	66-91	Sandy loam	III/IV	October	November	0.50	Korea	do.
		Dhamtari Singhpur.	400	146	50-112	Rockey.	IV/III	Oct.-Jan.	February	0.20	S-Raipur	Raipur
		All Ranges	425-610	125-150	40-115	Sandy to sandy loam.	III	do.	do.	0.20	Umaria	Rewa
95	Indigofera pulchella.	Neel All Ranges	300-1000	137-165	35-114	All type	III	April	April-May	0.20	Jashpur	Bilaspur
		Neel do.	350-700	125	40-115	Sandy loam	IV-a, IV-b	Sept -Oct.	March-April	0.10	Jabalpur	Central
		Birhol. Junglineel	464	102	50-93	Laterite. Sandy loam Murram.	III/IV	do.	Sept.-Oct.	0.10	Dewas	Indore
96	Iseilema laxum	Muchhail Rajgarh Machhari hopal	457	95	42-101	Laterite	IV	October	November	0.20	W.-Bhopal	Bhopal

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S. No.	Botanical name	Local name	Range in which found	Locality factor			Soil type	Quality of locality	Phenology		Approximate quantity of seed that can be available in quintal (12)	Division	Circle	
				Altitude in metres (5)	Rain fall average in cms. (6)	Temperature variation in F. (7)			Time of fruiting (10)	Time of collection (11)				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
97	Ischaemum pilosum.	Kuda	All Ranges	464	102	50-93	Sandy loam III/IV	III/IV	Oct.-Dec.	Oct.-Dec.	0.25	Dewas	Indore	
			Manpur	250-600	75-100	40-110	Sandy loam	III	Aug.-Sept.	December	0.10	Indore	do.	
98	Ischaemum laxum	Seran	All Ranges	464	102	50-93	Sandy loam III/IV	III/IV	Oct.-Dec.	Oct.-Dec.	0.25	Dewas	Indore	
99	Kydia calycina	Pula	All Ranges	662	152	65-87	Sandy loam	III	Sept.-Oct.	March-April	0.10	S-Bastar	Bastar	
			Baranga	do.	364-1126	143	66-86	Sandy to clay loam.	III	do.	do.	0.50	N-Bilaspur	Bilaspur
			Chirmiri	do.	549-1029	53-144	66-91	Sandy loam	III/IV	do.	do.	2.00	Korea	do.
			All Ranges	do.	350-700	125	40-115	Sandy loam	IV-a IV-b	do.	do.	0.50	Jabalpur	Central
		Safed Dhaman	do.	464	102	50-93	Murram, Sandy loam.	III/IV	do.	do.	0.50	Dewas	Indore	
100	Lagerstræmia parviflora.	Lendia	Baihar	625	165	35-105	Sandy loam	IV-a	April-June	Dec.-Feb.	0.02	N-Balaghat	Balaghat	
			do.	All Ranges	300-600	152	35-105	Sandy	III/II	do.	do.	0.02	S-Balaghat	do.
			do.	do.	1000	115	37-103	Sandy	III/IV	do.	do.	10.00	E-Chhindwara	do.
			do.	do.	800	125	37-105	do.	III-IV	do.	do.	2.00	W-Chhindwara	do.
			do.	do.	500	150	40-115	Lateritic	IV-b	do.	do.	2.00	N-Seoni	do.
			do.	do.	500	135	50-110	Lateritic Sandy loam.	IV-b	do.	do.	2.00	S-Seoni	do.
			Bhat, Sewan	Amroti, Kanger.	670 487-1275	170 152	45-106 45-106	Sandy loam	II/III	do.	do.	2.00	E-Bastar	Bastar
			do.	do.	do.	do.	do.	Sandy loam	IV	do.	do.	0.50	S-Bastar	do.
			Saja	All Ranges	914	127	35-118	Sandy to sandy loam.	IV	do.	do.	1.00	Bilaspur	Bilaspur
			do.	do.	364-1125	143	66-86	Sandy loam	III	do.	do.	5.00	N-Bilaspur	do.
		Sidha	do.	1200	138	35-118	Sandy loam	III	do.	do.	1.00	N-Surguja	do.	
do.	do.	328-1152	138	34-110	Well drained sandy loam.	III	do.	do.	2.00	S-Surguja	do.			
Kanker	do.	549-1029	102	66-91	Sandy loam	III/IV	Rocky.	do.	do.	5.00	Korea	do.		

		Sandha	do.	300-600	137-152	43-116	Sandy loam	III/IV	do.	do.	10-00	Jashpur	do.
		Lendia	do.	198-982	152	82-108	Sandy	III	do.	do.	2-00	Raigarh	do.
		do.	do.	600-700	101	42-101	Sandy loam	III/IV	do.	do.	2-00	E-Bhopal	Bhopal
		do.	do.	500	175	40-102	Sandy	IV	do.	do.	1-00	S-Mandla	Central
			do.	400-550	100-150	50-115	Clay loam	IV-b	do.	do.	2-00	Narsimhapur	do.
			do.	350-700	125	40-115	Sandy loam	IV-a and	do.	do.	1-00	Jabalpur	do.
		Saja	do.	666	88-90	46-112	Lateritic.	IV-b.	do.	do.	0-30	Shivpuri	Gwalior
		Lendia	do.	660	101-127	34-105	do.	IV-b	do.	do.	0-50	S-Betul	Hoshangabad
			do.	500-700	80-120	40-110	Black cotton	IV/III	do.	do.	0-20	Hoshangabad	do.
			do.	464	50-76	50-93	Rocky.	III/IV-b	do.	do.	2-00	Dewas	Indore
		Kankar	do.	183-914	50-76	50-118	Murram, Sandy	III/IV	do.	do.	1-00	E-Kha.gone	do.
		Lendia	do.	300-350	73-76	60-90	loam.	IV	do.	do.	1-00	W-Khargone	do.
			do.	400-600	125	112	Sandy loam	IV/III	do.	do.	0-10	E-Raipur	Raipur
		Kankar	do.	300-400	53-115	40-114	Shallow soil	II/III	do.	do.	2-00	N-Panna	Rewa
		Sandha or Saja.	do.	400-750	140	68-111	All type	III	do.	do.	0-50	E-Sidhi	do.
			do.	500-700	125	68-111	Rocky and	III	do.	do.	0-50	W-Sidhi	do.
							sandy soil.						
101	Lannea coromandelica.	Moyan	Ukwa	650	105	35-105	Sandy loam	IV-a	March-April	May-July	0-02	N-Balaghat	Balaghat
		Jhingan	All Ranges	388	152	65-87	Sandy loam	IV	do.	do.	0-25	S-Bastar	Bastar
		Moyan	do.	350-700	125	40-115	Sandy loam	IV-a	do.	do.	0-50	Jabalpur	Central
		do.	do.	464	102	82	Laterite.	IV-b	do.	do.	5-00	Dewas	Indore
		Mohni	do.	250-750	110	40-110	Murram	IV	do.	do.	2-00	Dhar	
		Jhingan	do.	400-650	140	104-113	Laterite, Sandy	IV	do.	do.	1-00	E-Sidhi	Rewa
		Gurgan	do.	666	88-90	46-112	loam.	IV	do.	do.	0-50	Shivpuri	Gwalior
							All type of	III					
							soil.						
							Shallow Sandy	IV-b					
							Laterite.						
102	Litsea sebifera	Maida lakri.	Baihar	600	165	35-105	Sandy loam	IV-a	March	May	0-02	N-Balaghat	Balaghat
103	Madhuca latifolia	Mahua	All Ranges	600	125	35-105	All type of soil	IV-a	Feb-April	June-August	0-02	N-Balaghat	Balaghat
		do.	do.	500-700	130-150	40-115	All soil type	IV-b III	do.	do.	2-00	N-Seoni	do.
		do.	do.	300-700	130-150	50-110	do.	IV-b III	do.	do.	2-00	S-Seoni	do.
		do.	do.	304-914	139	98-103	Sandy, sandy	II	do.	do.	2-00	N-Bastar	Bastar
							loam.						

SEED DIRECTORY OF FOREST DEPARTMENT

S. No.	Botanical name	Local name	Range in which found	Locality factor			Soil type	Quality of locality	Phenology		Approximate quantity of seed that can be available in quintal (12)	Division	Circle
				Altitude in metres (5)	Rain fall average in cms. (6)	Temperature variation in F. (7)			Time of fruiting (10)	Time of collection (11)			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Madhuca latifolia	Mahua	All Ranges	1275	152	70-87	Sandy loam IV		Feb.-April	June-August	5-00	S-Bastar	Bastar
		do.	do.	550-650	120	40-103	Sandy loam	III/II	do.	do.	2-00	Kanker	do.
		do.	do.	1029	53-144	66-91	Sandy loam		do.	do.	3-00	Korea	do.
		do.	do.	300-800	137-152	43-116	Rocky.	III/IV	do.	do.	3-00	Jashpur	
		do.	do.	600-700	101	42-101	Sandy loam	III/IV	do.	do.	5-00	E-Bhopal	Bhopal
		do.	do.	777	127	40-112	Lateritic.	III/IV-b	do.	do.	5-00	Sagar	do.
		do.	do.	500	175	40-102	Black clay		do.	do.	5-00	S-Mandla	Central
		do.	do.	350-700	125	40-115	Sandy Rocky		do.	do.	1-00	Jabalpur	do.
		do.	do.	305-549	152	41-107	Laterite.	IV-a and IV-b.	do.	do.	2-00	Guna	Gwalior
		do.	do.	500-700	80-120	40-110	All type of soil	III/IV-b	do.	do.	1-00	Hoshangabad	Hoshangabad
		do.	do.	464	102	50-93	Red loam.	III/IV	do.	do.	5-00	Dewas	Indore
		do.	do.	250-700	110	40-110	Murram, Sandy loam.		do.	do.	5-00	Dhar	do.
		do.	Kathiwada	250-800	75	60-115	Sandy loam	IV	do.	do.	10-00	Jhabua	do.
		do.	All Ranges	400-300	101	40-114	Alluvium soil	IV, III	do.	do.	5-00	N-Panna	Rewa
		do.	do.	400-650	140	104-113	Shallow soil	III	do.	do.	2-00	E-Sidhi	do.
		do.	do.	450	125	68-104	All type of soil	III	do.	do.	2-00	W-Sidhi	do.
		do.	do.	425-600	125-150	40-115	Sandy loam	III	do.	do.	5-00	Umaria	do.
		do.	do.				Sandy to sandy loam.	IV	do.	do.			
104	Mallotus philippensis.	Roli sandri	All Ranges	350-770	125	40-115	Sandy loam	IV-a, IV-b	October	March-June	0-01	Jabalpur	Central
		do.	do.	660	102	34-105	Black cotton	III/IV	do.	do.	0-01	S-Betul	Hoshangabad
105	Mangifera indica	Am do.	All Ranges	650	165	105	Sandy loam	IV-a	Jan.-March	June-July	5-00	N-Balaghat	Balaghat
		do.	do.	290-1065	130-152	34-116	Sandy, laterite	III/IV	do.	do.	5-00	Jashpur	Bilaspur
		do.	do.	464	102	50-93	Sandy loam.		do.	do.	1-00	Dewas	Indore
106	Milletia anriculata	Ganj	All Ranges	464	102	50-93	Sandy loam		do.	do.			
							Black cotton	III, IV	Oct.-Nov.	Oct.-Nov.	0-50	Dewas	do.
							Sandy loam.						
107	Miliuasa tomentosa.	Kari	All Ranges	243-1029	21-144	51-106	Sandy loam	III	March	June	0-50	Korea	Bilaspur
							Rocky.						

108	Mimusops hexandra.	Khirni	All Ranges	549	152	41-107	Sandy loam	IV-b	Nov.-Jan.	April-July	1-00	Guna	Gwalior
109	Mitragyna parvifolia.	Kalam	All Ranges	500	150	40-115	Sandy loam	IV-a	May-July	Oct.-Nov.	0-20	N-Seoni	Balaghat
		Chhoti Mundi, Kalmi.	do.	36-825	170	45-106	Sandy loam	II/III	do.	do.	0-20	E-Bastar	Bastar
		do.	do.	364-1125	143	66-86	Sandy to clay loam.	III	do.	do.	0-10	N-Bilaspur	Bilaspur
		do.	do.	325-1200	137	34-110	Sandy loam	III	do.	do.	0-05	N-Surguja	do.
		Mundi	do.	327-1152	138	34-110	Well drained sandy loam.	III	do.	do.	0-20	S-Surguja	do.
		Mundi	do.	548-1029	53-140	66-91	Sandy loam	III/IV	do.	do.	1-00	Korea	do.
110	Moghania semialata.	Banrahar	Barhi	350-700	125	40-105	Sandy loam Laterite.	IV-a and IV-b	Nov.-Dec.	Feb.-March	0-02	Jabalpur	Jabalpur
111	Morinda tinctoria	Aal	All Ranges	464	102-00	50-93	Sandy loam	III/IV	Feb.-April	Feb.-April	0-02	Dewas	Indore
112	Nyctanthes arbortristis.	Harsingar	do.	400-550	100-150	50-115	Variety of soil	IV	Aug.-Oct.	Nov.-Feb.	0-10	Narsimhapur	Central
		do.	do.	350-700	125	40-115	Sandy loam Laterite.	IV-a & b	do.	do.	0-10	Jabalpur	do.
		do.	do.	305-549	89-152	41-107	All type of soil	IV-b	do.	do.	0-10	Guna	Gwalior
		do.	do.	464	102	50-93	Sandy loam Murrum.	III, IV	do.	do.	0-10	Dewas	Indore
		do.	do.	600	100	40-110	Sandy	IV-b	do.	do.		Indore	do.
		do.	do.	182-609	50-76	40-115	Clay loam	IV	do.	do.	0-20	E-Khargone	do.
		Seharuwa	do.	425-700	125-150		Sandy	IV	do.	do.	0-20	Umaria	Rewa
113	Ougeinia dalbergioides.	Tinsa	All Ranges	600	165	35-105	Sandy loam	IV-a	Feb.-March	May-June	0-06	N-Balaghat	Balaghat
		do.	do.	600	152	35-105	Murrum, Sandy loam.	III, IV	do.	do.	0-25	S-Balaghat	do.
		do.	do.	500-100	115	37-103	Deep loamy sand.	III, IV	do.	do.	0-20	E-Chhindwara	do.
		do.	do.	400-700	103	37-107	Deep loam and sandy.	III, IV	do.	do.	0-20	S-Chhindwara	do.
		do.	do.	36-825	170	45-106	Sandy loam	II III	do.	do.	0-25	E-Bastar	Bastar
		do.	do.	304-914	139-190	98-103	Sandy to clayey.	III-II	do.	do.	0-20	N-Bastar	do.
		do.	do.	388-1474	152	70-87	Sandy loam Red.	IV	do.	do.	0-50	S-Bastar	do.
		do.	do.	364	143	66-86		IV	do.	do.	2-00	N-Bilaspur	Bilaspur
		do.	do.	325-1200	138	34-110	Sandy loam	III	do.	do.	2-00	N-Surguja	do.
		do.	do.	327-1152	138	34-110	Well drained sandy loam.	III	do.	do.	0-25	S-Surguja	do.
		do.	do.	549-1029	53-144	51-106	Murrum, Sandy loam.	III	do.	do.	5-00	Korea	do.

SEED DIRECTORY OF FOREST DEPARTMENT

S. No.	Botanical name	Local name	Range in which found	Locality factor			Soil type	Quality of locality	Phenology		Approximate quantity of seed that can be available in quintal (12)	Division	Circle
				Altitude in metres (5)	Rain fall average in cms. (6)	Temperature variation in F. (7)			Time of fruiting (10)	Time of collection (11)			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Ougeinia dalbergoides.	Tinsa	All Ranges	290-760	137	34-116	Sandy loam	IV-III	Feb.-March	May-June	0.50	Jashpur	Bilaspur
	do.	do.	do.	400-550	100-150	50-115	Sandy loam	IV-a & IV-b	do.	do.	0.50	Narsimhapur	Central
	do.	do.	do.	350-700	125	40-115	Laterite.	IV-a & b	do.	do.		Jabalpur	do.
	do.	do.	do.	305-549	102-152	41-107	Clayey soil	IV-b	do.	do.	0.04	Guna	Gwalior
	do.	do.	do.	370-600	125	34-107	Well drained sandy loam	IV	do.	do.	1.00	N-Betul	Hoshangabad
	do.	do.	do.	660	101-152	34-105	Black cotton	IV-III	do.	do.	0.50	S-Betul	do.
	do.	do.	do.	500-700	80-120	40-110	Black cotton	III/IV-b	do.	do.	0.10	Hoshangabad	do.
	do.	do.	do.	464	102	50-93	Red loam.						
	do.	do.	do.	250-750	115	40-110	Murram Sandy loam.	III & IV	do.	do.	1.00	Dewas	Indore
	do.	do.	do.	600	75-100	76-104	Black cotton, Sandy to Sandy loam.	III IV	do.	do.	0.80	Dhar	do.
	do.	do.	Pati	350-410	63-76	60-90	Sandy loam	IV-b	do.	do.	0.10	Indore	do.
	do.	do.	All Ranges	850-1100	140-150	80-105	Sandy loam	III-IV	do.	do.	0.50	W-Khargone	do.
	do.	do.	do.	400-650	140	104-113	Red loamy and Rocky.	III & IV	do.	do.	1.00	N-Raipur	Raipur
	do.	do.	do.	400-650	140	104-113	Sandy and Rocky.	III & IV	do.	do.	0.02	E-Sidhi	Rewa
114	Oxytenanthera nigrocilata.	Sandhen	Chandia	425-600	125-150	40-115	Loamy	IV	do.	do.	1.00	Umaria	do.
	do.	Pani bans	All Ranges	305-915	140-190	98-103	Sandy clay soil.	to II & III	Feb.-March	May-June	Only when flowers.	N-Bastar	Bastar
115	Phoenix acaulis	Chhind	All Ranges	550	165	35-105	Sandy loam	IV-b	do.	July	0.01	N-Balaghat	Balaghat
	do.	do.	do.	325-1200	137-96	34-110	Sandy loam	III	do.	do.	4.00	N-Surguja	Bilaspur
	do.	do.	do.	327-1152	138	34-110	Well drained sandy.	III	do.	do.		S-Surguja	do.
	do.	do.	do.	600-1000	137-165	35-144	All type of soil	III	do.	do.	5.00	Jashpur	do.
	do.	do.	do.	464	102	50-93	Black cotton	III, IV	do.	do.	0.25	Dewas	Indore
	do.	do.	do.	425-700	125-150	40-115	Sandy	III & IV	do.	do.	1.00	Umaria	Rewa
116	Pongamia pinnata	Karanji	Ukwa	575	165	35-105	Sandy loam	IV-a	April-June	March-May	0.02	N-Balaghat	Balaghat
	do.	do.	All Ranges	300-600	102-137	43-116	Lateritic sandy loam.	IV, III	do.	do.	0.20	Jashpur	Bilaspur
	do.	do.	do.	350-700	125	40-115	Sandy loam laterite.	IV-a & b	do.	do.		Jabalpur	Central

	do.	do.	464	102	50-93	Murram sandy III, IV loam.	do.	do.	0-20	Dewas	Indore	
117	Prosopis juliflora	Bilayti babul. Khejra	Bhind Gwalior Jora	400	73-127	32-116	Alluvium IV-b Laterite. Sandy loam IV-b	Feb.-March	April-May	50-00	Gwalior	Gwalior
				210-480	80	75-84		do.	do.	5-00	Sheopur	do.
118	Pterocarpus marsupium.	Bija	All Ranges	600	165	35-105	Well drained IV-a sandy loam.	June-Sept.	Dec.-April	0-05	N-Balaghat	Balaghat
		do.	do.	600	152	35-105	All type of soil III, IV	do.	do.	0-20	S-Balaghat	do.
		do.	do.	500-1000	115	37-107	Well drained III sandy loam.	do.	do.		E-Chhindwara	do.
		do.	do.	500	150	40-115	Lateritic IV, III	do.	do.	0-50	N-Seoni	do.
		do.	do.	140-500	140	50-110	Sand stone IV, III	do.	do.	0-50	S-Seoni	do.
		do.	do.	36-825	170	45-106	Sandy loam II/III	do.	do.	1-00	E-Bastar	Bastar
		do.	do.	304-800	137-190	98-103	Sandy to III, II clay.	do.	do.	1-00	N-Bastar	do.
		do.	do.	1275	152	70-87	Sandy loam IV, V Red.	do.	do.	1-00	S-Bastar	do.
		do.	do.	200-390	167	50-105	Well drained III, IV sandy loam.	do.	do.	0-25	W-Bastar	do.
		do.	do.	550-650	120-152	59-131	Sandy loam III Rocky.	do.	do.	1-00	Kanker	do.
		do.	do.	363-1029	143	40-103	Sandy III	do.	do.	5-00	N-Bilaspur	Bilaspur
		do.	do.	1200	138	34-110	Well drained III sandy loam.	do.	do.	2-00	N-Surguja	do.
		do.	do.	328-1152	138	34-110	Well drained III sandy.	do.	do.	0-25	S-Surguja	do.
		do.	do.	549-1029	78-144	51-106	Well drained III sandy loam.	do.	do.	2-00	Korea	do.
		do.	do.	290-1000	137-152	35-116	Sandy loam III, II Laterite.	do.	do.	2-00	Jashpur	do.
		do.	do.	198-982	152	82-108	Granite and III gneisses.	do.	do.	5-00	Raigarh	do.
		do.	do.	600-700	102	42-101	Laterite III, IV	do.	do.	1-00	E-Bhopal	Bhopal
		do.	do.	500	150	40-102	Well drained III sandy.	do.	do.	5-00	S-Mandla	Central
		do.	do.	400-550	100-150	50-115	Sandy loam IV-b	do.	do.	2-00	Narsimhapur	do.
		do.	do.	350-700	125	40-115	Sandy loam IV-a & b laterite.	do.	do.	0-02	Jabalpur	do.
		do.	do.	549	152	41-108	All type of soil IV-b	do.	do.	0-12	Guna	Gwalior
		do.	do.	370-600	125	34-107	Well drained III, IV sandy loam.	do.	do.	1-00	N-Betul	Hoshangabad
		do.	do.	660	102-121	34-105	Black cotton IV, III & rocky.	do.	do.	0-01	S-Betul	do.
		do.	do.	500-700	80-120	40-110	Black cotton III/IV-b Red loam.	do.	do.	0-05	Hoshangabad	do.
		do.	do.	464	102	50-93	Murram, Sandy III, IV loam.	do.	do.	1-00	Dewas	Indore

SEED DIRECTORY OF FOREST DEPARTMENT

S. No.	Botanical name	Local name	Range in which found	Locality factor			Soil type	Quality of locality	Phenology		Approximate quantity of seed that can be available in quintal (12)	Division	Circle
				Altitude in metres (5)	Rain fall average in cms. (6)	Temperature variation in F. (7)			Time of fruiting (10)	Time of collection (11)			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	<i>Pterocarpus marsupium.</i>	Bija	All Ranges	400-900	115	104-113	Sandy loam	III, IV	June-Sept.	Dec.-April	2-00	N-Durg	Raipur
	do.	do.	do.	850-1100	100-150	50-105	Red loamy	III	do.	do.	2-00	N-Raipur	do.
	do.	do.	do.	400-600	125	42-112	Sandy loam	II, III	do.	do.	0-10	E-Raipur	do.
	do.	do.	do.	400	146	50-112	Well drained sandy loam.	III, II	do.	do.	0-50	S-Raipur	do.
	do.	do.	do.	300-400	121	40-114	Shallow soil	III	do.	do.	0-50	N-Panna	Rewa
	do.	do.	do.	450-650	140	104-113	All type of soil		do.	do.		E-Sidhi	do.
	do.	do.	do.	800	114		Sandy loam & black cotton.	III	do.	do.	0-20	S-Shahdol	do.
	do.	do.	do.	425-600	125-150	40-115	Sandy to sandy loam.	IV	do.	do.	1-00	Umaria	do.
119	<i>Randia dumetorum.</i>	Mainphal	All Ranges	364-1125	143	40-118	Sandy loam			Oct.-Dec.	0-20	N-Bilaspur	Bilaspur
	do.	do.	do.	464	102	50-93	Sandy murrum	III, IV		do.	0-20	Dewas	Indore
120	<i>Saccopetalum tomentosum.</i>	Kari	All Ranges	500-600	150	40-115	Laterite	IV	Nov.-Dec.	Feb.-March	0-05	N-Seoni	Balaghat
	do.	do.	do.	1029	78-144	34-106	Sandy rocky		do.	do.	0-05	Korea	Bilaspur
	do.	do.	do.	305-549	89-152	41-107	Sandy loam	IV-b	do.	do.	0-02	Guna	Gwalior
	do.	do.	do.	500-700	80-120	40-110	Black cotton Red loam.	III/IV-b	do.	do.	0-02	Hoshangabad	Hoshangabad
	do.	do.	do.	464	102	50-93	Black cotton	IV	do.	do.	0-05	Dewas	Indore
	do.	do.	do.	450	125	68-111	Sandy loam	III & IV	do.	do.	0-01	W-Sidhi	Rewa
121	<i>Saccharum spontaneum.</i>	Kans	All Ranges	350-700	125	40-115	Sandy loam lateritic.	IV-a & b	Sept.-Oct.	October	0-10	Jabalpur	Central
	do.	do.	do.	464	102	50-93	Sandy loam Murrum.	III, IV	do.	do.	0-10	Dewas	Indore
122	<i>Salmaalial malbarica.</i>	Semal	All Ranges	650	165	35-105	Sandy loam Alluvium.	IV-a	Jan.-Feb.	April-May	0-05	N-Balaghat	Balaghat
	do.	do.	do.	36-825	170	45-106	Alluvial	II/III	do.	do.	2-00	E-Bastar	Bastar
	do.	do.	do.	484-1275	152	70-87	Sandy loam red.	IV	do.	do.	2-00	S-Bastar	do.
	do.	do.	do.	1066	152	35-120	Sandy alluvial	III	do.	do.		Bilaspur	Bilaspur
	do.	do.	do.	1200	96-137	110	Sandy loam alluvial.	III-IV	do.	do.	1-00	N-Surguja	do.
	do.	do.	do.	327-1152	138	34-110	Well drained sandy loam.	III-IV	do.	do.	0-50	S-Surguja	do.
	do.	do.	do.	548-1029	78-144	51-106	Sandy alluvial	III	do.	do.	5-00	Korea	do.

	do.	do.	300-1000	137-165	43-116	Lateritic sandy loam.	III	do.	do.	0-10	Jashpur	do.
	do.	do.	100-500	175	71-75	Sandy alluvial	III-IV	do.	do.	1-00	S-Mandla	Central
	do.	do.	400-550	100-150	50-115	Sandy loam	IV and below.	do.	do.	1-00	Narsinghpur	do.
	do.	do.	305-549	152	41-107	All type of soil	IV-b	do.	do.	0-01	Guna	Gwalior
	do.	do.	660	102-127	34-105	Black cotton	III	do.	do.	0-05	S-Betul	Hoshangabad
	do.	do.	500-700	100-120	40-110	Black cotton	III/IV-b	do.	do.	0-05	Hoshangabad	do.
	do.	do.	464	102	50-93	Sandy loam Alluvium.		do.	do.	2-00	Dewas	Indore
	do.	do.	250-770	110	40-110	Sandy	IV	do.	do.	1-00	Dhar	do.
	do.	do.	400-600	125	40-112	Sandy loam	II/III	do.	do.	0-50	E-Raipur	Raipur
	do.	do.	800	114	41-91	Sandy loam		do.	do.	0-50	S-Shahdol	Rewa
	do.	do.	425-700	125-150		Black cotton.		do.	do.			
	do.	do.				Sandy to	IV-III	do.	do.	2-00	Umaria	do.
	do.	do.				Sandy loam.		do.	do.			
123	Santalum album	Chandan	Rajgarh 457 Rehali, Khurai 400-457	105 127	42-101 40-112	Lateritic	IV	Jan.-March	July-Aug.	0-10 0-10	W-Bhopal Sagar	Bhopal do.
						Loose sand to stiff black clayey soil.	III, IV	do.	do.			
124	Sehima nervosum	Chhir	All Ranges	328-1552	138	34-110	Sandy loam	Dec.-Jan.	April-May	0-05	S-Surguja	Bilaspur
		do.	do.	1200	138	34-110	Sandy	do.	do.	0-5	N-Surguja	do.
125	Sehima sulcatum	Paonia	All Ranges	305-549	152	41-107	Sandy loam	November	December	0-10	Guna	Gwalior
			do.	464	102	50-93	Sandy loam	do.	do.	0-25	Dewas	Indore
			Manpur	250-600	75-100	40-104	Sandy loam	do.	do.	0-05	Indore	do.
			All Ranges	183-610	50-76	35-105	Clay soil	do.	do.	0-02	E-Khargone	do.
126	Schleichera oleosa	Kusum	All Ranges	650	165	35-105	Sandy loam	March-April	June-July	0-02	N-Balaghat	Balaghat
		do.	do.	304-914	137-190	98-105	Sandy to sandy clay.	do.	do.		N-Bastar	Bastar
		do.	do.	662	152	40-102	Sandy loam	do.	do.	0-50	S-Bastar	do.
		do.	do.	1029	53-144	51-106	Sandy, rocky	do.	do.	2-00	Korea	Bilaspur
		do.	do.	300-600	127-152	45-116	Sandy loam	do.	do.	0-20	Jashpur	do.
		do.	do.	305-549	152	41-107	Sandy	do.	do.	0-20	Guna	Gwalior
		do.	do.	500-700	80-120	40-110	Black cotton	do.	do.	0-05	Hoshangabad	Hoshangabad
						Red loam.						
		do.	do.	464	102	50-93	Sandy loam	do.	do.	0-05	Dewas	Indore
		do.	do.	400-650	140	104-113	Clay soil	do.	do.	0-02	E-Sidhi	Rewa
127	Semecarpus anacardium.	Bhilma	Baihar	575	165	35-105	Sandy loam	May-Sept.	Dec.-March	0-20	N-Balaghat	Balaghat
		do.	All Ranges	500-700	130-150	40-115	Black cotton	do.	do.	0-10	N-Seoni	do.
		do.	do.	300-700	130-150	50-110	do.	do.	do.	0-20	S-Seoni	do.

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				Altitude in metres (5)	Rain fall average in cms. (6)	Temperature variation in F. (7)			Time of fruiting (10)	Time of collection (11)			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	<i>Semecarpus anacardium.</i>	Bhilma	All Ranges	304-914	139-190	93-103	Sandy sandy clay.	to III-II	May-Sept.	Dec.-March	0-50	N-Bastar	Bastar
128	<i>Shorea robusta</i>	Sal, Sarai	All Ranges	1000	115	42-103	Sandy	III, IV	Feb.-April	June	2-00	E-Chhindwara	Balaghat
		do.	do.	400-1000	100-120	42-105	Sandy	IV	do.	do.	2-00	W-Chhindwara	do.
		do.	do.	304-914	139-190	98-103	Sandy sandy clay.	to II, III	do.	do.	10-00	N-Bastar	Bastar
		do.	do.	36-825	170	45-106	Sandy loam Clayey.	II/III	do.	do.	10-00	E-Bastar	do.
		do.	do.	1275	152	70-87	Sandy loam	IV	do.	do.	2-00	S-Bastar	do.
		do.	do.	550-650	120-150	59-131	Sandy loam	II, III	do.	do.	5-00	Kanker	do.
		do.	do.	1219	152	35-117	Sandy loam	III	do.	do.		Bilaspur	Bilaspur
		do.	do.	198-980	152	82-108	do.	III	do.	do.	500-00	Raigarh	do.
		do.	do.	1200	138	40-110	Sandy	IV	do.	do.	150-00	N-Surguja	do.
		do.	do.	327-1152	138	34-110	Well drained sandy loam.	III	do.	do.	200-00	S-Surguja	do.
		do.	do.	548	53-144	51-106	Sandy	IV	do.	do.	208-00	Korea	do.
		do.	do.	300-1125	137-165	35-116	Laterite, Sandy loam.	II-III	do.	do.	50-00	Jashpur	do.
		do.	do.	500	175	40-102	Sandy	IV	do.	do.	100-00	S-Mandla	Central
		do.	do.	350-700	125	40-115	Sandy loam Laterite.	IV-a & b	do.	do.	10-00	Jabalpur	do.
		do.	do.	400-900	105	46-118	Sandy loam	III-IV	do.	do.	10-00	N-Durg	Raipur
		do.	do.	400-600	125	40-112	Sandy loam	II, III	do.	do.	50-00	E-Raipur	do.
		do.	do.	850-1100	140-150	80-105	Red loamy	II, III	do.	do.	10-00	N-Raipur	do.
		do.	do.	302-640	140	50-112	Sandy	III, II	do.	do.	20-00	S-Raipur	do.
		do.	do.	400-650	140	50-113	Sandy to clay loam.	III, IV	do.	do.	10-00	E-Sidhi	Rewa
		do.	do.	425-600	125-150	40-115	Sandy to sandy loam.	IV-III	do.	do.	200-00	Umaria	do.
129	<i>Schrebera swietenoides.</i>	Mokha	All Ranges	650	165	35-105	Sandy loam	IV-a	April-June	Nov.-Jan.	0-05	N-Balaghat	Balaghat
		do.	do.	500	150	40-115	Laterite	IV	do.	do.	0-50	N-Seoni	do.
		do.	do.	305-549	152	41-107	Sandy loam	IV-b	do.	do.	0-05	Guna	Gwalior
		do.	do.	464	102	50-93	Sandy loam	III, IV	do.	do.	0-20	Dewas	Indore
130	<i>Soymida febrifuga</i>	Rohan	All Ranges	650	165	35-105	Sandy	IV-a	March-April	July-Aug.	0-05	N-Balaghat	Balaghat

		do.	do.	1275	152	70-87	Sandy loam IV Red.	do.	do.	0-05	S-Bastar	Bastar
		do.	do.	660	102-127	40-105	Black cotton IV-III	do.	do.		S-Betul	Hoshangabad
		do.	do.	464	102	50-93	Sandy IV	do.	do.	0-20	Dewas	Indore
131	<i>Sterculia urens</i>	Kulu	Ukwa	600	165	35-105	Sandy loam IV	Jan.-Feb.	April-May	0-02	N-Balaghat	Balaghat
		do.	All Ranges	1275	152	40-103	Sandy loam IV	do.	do.	0-25	S-Bastar	Bastar
		do.	do.	548-1029	78-144	66-91	Sandy loam III Rocky.	do.	do.	0-50	Korea	Bilaspur
		do.	do.	300-600	137-152	43-116	Sandy and IV Rocky soil,	do.	do.	0-10	Jashpur	do.
		do.	do.	464	102	50-93	Black cotton III, IV and loamy.	do.	do.	0-50	Dewas	Indore
		do.	do.	350-750	110	40-110	Sandy loam IV, V	do.	do.	2-00	Dhar	do.
		do.	do.	300-400	122	40-114	Shallow soil III	do.	do.	0-50	N-Panna	Rewa
		do.	do.	400-650	145	104-113	Rocky soil IV	do.	do.	0-50	E-Sidhi	do.
		do.	do.	425-800	125-150		Sandy to sandy loam.	do.	do.	1-00	Umaria	do.
132	<i>Stereospermum suaveolens.</i>	Padar	All Ranges	650	165	35-105	Sandy IV-b	April-June	March-May	0-05	N-Balaghat	Balaghat
		do.	do.	500-600	115	40-115	Sandy III, IV	do.	do.	0-50	N-Seoni	do.
		do.	do.	464	102	50-93	Sandy loam III, IV	do.	do.	0-05	Dewas	Indore
133	<i>Symplocos racemosa.</i>	Lenda	Baihar	625	165	35-105	Sandy loam IV-a	April	June	0-02	N-Balaghat	Balaghat
134	<i>Syzygium cumini</i>	Jamun	All Ranges	304-914	140-190	98-103	Sandy loam III, II	March-May	June-Aug.	1-00	N-Bastar	Bastar
		do.	do.	550	165	35-105	Sandy loam IV-a	do.	do.	0-10	N-Balaghat	Balaghat
		do.	do.	1219	190	30-118	Sandy loam IV	do.	do.	1-00	Bilaspur	Bilaspur
		do.	do.	1200	138	40-110	Sandy loam III	do.	do.	4-00	N-Surguja	do.
		do.	do.	327-1152	138	34-110	Well drained III sandy loam.	do.	do.	5-00	S-Surguja	do.
		do.	do.	300-1000	137-152	35-116	Laterite, Sandy III-IV loam.	do.	do.	5-00	Jashpur	do.
		do.	do.	100-500	150-175	75-77	Alluvial III	do.	do.	5-00	S-Mandla	Central
		do.	do.	350-700	125	40-115	Sandy loam IV-a, b Laterite.	do.	do.		Jabalpur	do.
		do.	do.	660	110-127	34-105	Black cotton III, IV	do.	do.	0-10	S-Betul	Hoshangabad
		do.	do.	464	102	50-93	Black cotton III	do.	do.	20-00	Dewas	Indore
		do.	do.	250-770	120	40-110	Moist loamy IV	do.	do.	0-50	Dhar	do.
		do.	do.	450	125	68-104	Loamy to III sandy loam.	do.	do.	0-05	W-Sidhi	Rewa
135	<i>Tamarindus indica</i>	Imli	Ukwa	550	165	35-105	Sandy loam IV-a	April-June	Feb.-April	7-00	N-Balaghat	Balaghat
			All Ranges	350-700	125	40-115	Sandy loam IV-a & b Laterite.	do.	do.	0-50	Jabalpur	Central
			do.	464	102	50-93	Black cotton IV-III Sandy.	do.	do.	2-00	Dewas	Indore

SEED DIRECTORY OF FOREST DEPARTMENT

S. No.	Botanical name	Local name	Range in which found	Locality factor			Soil type	Quality of locality	Phenology		Approximate quantity of seed that can be available in quintal (12)	Division	Circle
				Altitude in metres (5)	Rain fall average in cms. (6)	Temperature variation in F. (7)			Time of fruiting (10)	Time of collection (11)			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
136	Tamarix dioica	Jhau	Kundom Bihora.	350-700	125	40-115	Sandy loam Lateritic.	IV-a & b	May-Aug.	Dec.-Jan.	0-01	Jabalpur	Central
137	Tectona grandis	Teak, sagoon.	All Ranges	600	152	35-105	Loose sandy to stiff.	III-IV	June-Sept.	Nov.-Jan.	10-00	S-Balaghat	Balaghat
		do.	do.	1000	115	40-103	do.	III-IV	do.	do.	100-00	E-Chhindwara	do.
		do.	do.	400-700	103	37-107	do.	III-IV	do.	do.	200-00	S-Chhindwara	do.
		do.	do.	400-800	125	40-105	do.	III-IV	do.	do.	200-00	W-Chhindwara	do.
		do.	do.	500-700	130	40-115	Sandy	III-IV	do.	do.	100-00	N-Seoni	do.
		do.	do.	350-700	135	50-110	Alluvium	III-II	do.	do.	200-00	S-Seoni	do.
		do.	do.	36-825	170	45-106	Sandy.						
		do.	do.	304-914	140-190	98-103	Sandy loam	II-III	do.	do.	12-00	E-Bastar	Bastar
		do.	do.	662	152	40-103	Sandy loam	III-II	do.	do.	40-00	N-Bastar	do.
		do.	do.				Sandy loam	IV	do.	do.	100-00	S-Bastar	do.
		do.	do.	330-480	167	40-105	Red.						
		do.	do.	600	110	40-102	do.	III-IV	do.	do.	150-00	W-Bastar	do.
		do.	do.	600-700	101	42-101	Sandy loam	II-III	do.	do.	50-00	Kanker	do.
		do.	do.	487	120	42-101	Laterite, Sandy loam.	III-IV	do.	do.	100-00	E-Bhopal	Bhopal
		do.	do.	396-579	127	40-112	Black cotton	IV	do.	do.	100-00	W-Bhopal	do.
		do.	do.	517	115	90-104	Loose sand to stiff.	III-IV	do.	do.	100-00	Sagar	do.
		do.	do.	350-450	90-110	41-109	Sandy & Black cotton.	IV-b	do.	do.	100-00	Raisen	do.
		do.	do.	500	150	40-102	Sandy loam	IV	do.	do.	40-00	Damoh	Central
		do.	do.	400-550	100-150	85-115	do.	III	do.	do.	20-00	S-Mandla	do.
		do.	do.	350-700	125	40-115	Sandy loam	III-IV	do.	do.	50-00	Narsimhapur	do.
		do.	do.	549	152	41-107	Sandy loam	IV-a & b	do.	do.	50-00	Jabalpur	do.
		do.	do.	800-900	76-89	40-112	Lateritic.						
		do.	do.	370-800	125	34-107	Loose sandy to stiff.	IV-b	do.	do.	10-00	Guna	Gwalior
		do.	do.	660	102-127	34-105	Sandy loam	III	do.	do.	50-00	Tikamgarh	do.
		do.	do.	325	100		Clayey.						
		Sagoan	do.	500-700	80-120	40-110	Sandy loam	III-II	do.	do.	300-00	N-Betul	Hoshangabad
		do.	do.	300-600	177-190	50-110	Black cotton	III	do.	do.	200-00	S-Betul	do.
		do.	do.				Red loam.	IV	do.	do.	200-00	Harda	do.
		do.	do.				Lateritic	III/IV-b	do.	do.	200-00	Hoshangabad	do.
		do.	do.					III	do.	do.	100-00	N-Khandwa	do.

do.	do.	300-600	80-100	59-107	Laterite	IV	do.	do.	100-00	S-Khandwa	do.
do.	do.	464	102	50-93	Sandy loam	IV/II	do.	do.	100-00	Dewas	Indore
do.	do.	250-750	110	40-110	Black cotton	IV/V	do.	do.	50-00	Dhar	do.
					Sandy loam						
do.	do.	600	100	40-102	Sandy loam		do.	do.	50-00	Indore	do.
Teak,	Alirajpur,	250-800	75	60-115	Alluvial soil	IV-III	do.	do.	50-00	Jhabua	do.
sagoan.	Kathwada, Mathwad, Thandla, Petlawad.				varing texture loam to heavy clay.						
	All Ranges	182-609	50-76	50-118	do.	IV-V	do.	do.	50-00	E-Khargone	do.
	do.	500-800	125	46-118	Sandy loam	IV	do.	do.	10-00	N-Durg	Raipur
Teak	do.	336-612	102-152		Sandy loam.	III-IV	do.	do.	10-00	S-Durg	do.
	do.	304-426	114	46-112	Sandy loam.	IV-a	do.	do.	50-00	Chhatarpur	Rewa
	Modla, Ajay- garh, Panna.	300-400	121	40-114	Shallow	III	do.	do.	200-00	N-Panna	do.
	Rewa	325	104	52-110	Loamy clay	IV	do.	do.	50-00	Rewa	do.
	All Ranges	550-700	125	68-111	Sandy loam	III	do.	do.	0-50	W-Sidhi	do.
Sagoan	Kerkali, Chandia.	475-700	125-150		Sandy to sandy loam.	IV-III	do.	do.	50-00	Umaria	do.

138	Terminalia arjuna	Koha	All Ranges	625	165	35-105	Sandy loam	III	April-July	Feb.-May	0-10	N-Balaghat	Balaghat
			do.	500-1000	115	37-103	do.	III-IV	do.	do.	2-00	E-Chhindwara	do.
			do.	400-800	100-125	39-105	do.	III-IV	do.	do.	1-00	W-Chhindwara	do.
	Koha	do.	do.	400-670	170	45-106	do.	II-III	do.	do.	1-00	E-Bastar	Bastar
	Arjun.												
	Koha	do.	do.	304-914	140-190	98-103	Sandy	III-II	do.	do.	1-00	N-Bastar	do.
		do.	do.	662	154	40-105	Sandy	IV	do.	do.	0-50	S-Bastar	do.
		do.	do.	580	130	59-140	Laterite, Sandy loam Rocky.	IV	do.	do.	0-50	Kanker	do.
		do.	do.	along stream	177-80	70-118	Sandy loam	III	do.	do.	0-50	Bilaspur	Bilaspur
		do.	do.	549-1029	53-145	40-102	Sandy loam	III-IV	do.	do.	2-00	Korea	do.
		do.	do.	300-800	137-152	43-110	Sandy loam	III-IV	do.	do.	2-00	Jashpur	do.
		do.	do.	600-700	101	42-101	Sandy loam	III-IV	do.	do.	2-00	E-Bhopal	Bhopal
		do.	do.	1200	120	42-101	do.	IV	do.	do.	1-00	W-Bhopal	do.
		do.	do.	396-579	127	40-112	Sandy loam	IV-III	do.	do.	2-00	Sagar	do.
		do.	do.	400-550	100-150	50-115	Alluvial loam	IV	do.	do.	2-00	Narsinghpur	Central
		do.	do.	350-700	125	40-115	Sandy loam	IV-a & b	do.	do.	1-00	Jabalpur	do.
							Laterite.						
		do.	do.	305-549	89-152	41-107	Sandy loam	IV	do.	do.	1-00	Guna	Gwalior
		do.	do.	370-600	125	34-107	Sandy loam	IV-II	do.	do.	2-00	N-Betul	Hoshangabad
		do.	do.	464	102	50-93	Sandy loam	III-IV	do.	do.	1-00	Dewas	Indore
		do.	do.	250-750	115	40-110	Sandy loam	IV-V	do.	do.	1-00	Dhar	do.
		do.	do.	400-600	125	42-112	Sandy loam	II-III	do.	do.	1-00	E-Raipur	Raipur
		do.	do.	300-400	121	40-114	Shallow	III	do.	do.	2-5	N-Panna	Rewa
		do.	do.	400-650	145	40-115	Clay soil	III	do.	do.	2-00	E-Sidhi	do.

SEED DIRECTORY OF FOREST DEPARTMENT

S. No.	Botanical name	Local name	Range in which found	Locality factor			Soil type	Quality of locality	Phenology		Approximate quantity of seed that can be available in quintal (12)	Division	Circle
				Altitude in metres (5)	Rain fall average in cms. (6)	Temperature variation in F. (7)			Time of fruiting (10)	Time of collection (11)			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	<i>Terminalia arjuna</i>	Koha	All Ranges	450	125	68-111	Sandy to III Sandy loam.		April-July	Feb.-May	1-00	W-Sidhi	Rewa
139	<i>Terminalia belerica</i> ,	Bahera	Baihar Range	600	165	35-105	Sandy loam	IV-a	April-May	Nov.-Feb.	2-00	N-Balaghat	Balaghat
			Amroti, Kondagaon, Kanger.	40-670	170	45-106	Loam to gritty	II-III	do.	do.	2-00	E-Bastar	Bastar
			All Ranges	304-914	140-190	98-103	Sandy	III-II	do.	do.	1-00	N-Bastar	do.
			do.	662	152	40-105	Sandy loam	IV	do.	do.	2-00	S-Bastar	do.
			do.	48-1029	53-144	66-91	Sandy loam		do.	do.	0-50	Korea	Bilaspur
			do.	290-1060	137-152	34-116	Sandy loam to clay soil.	III-II	do.	do.	2-00	Jashpur	do.
			do.	350-700	125	40-115	Sandy loam	IV-a & b Laterite.	do.	do.	0-50	Jabalpur	Central
			Bori, Suktawa	500-700	80-120	40-110	Black cotton	III-IV-b	do.	do.	0-10	Hoshangabad	Hoshangabad
			All Ranges	464	102	50-93	Black cotton	III-IV	do.	do.	1-00	Dewas	Indore
			do.	250-750	110	40-110	Sandy loam	IV	do.	do.	0-50	Dhar	do.
			Indore	600	75-100	40-104	Sandy loam	IV	do.	do.	0-20	Indore	do.
			All Ranges	400-600	125	42-112	Sandy loam	II-III	do.	do.	2-00	E-Raipur	Raipur
			do.	300-400	121	40-114	Shallow soil	III	do.	do.	0-50	N-Panna	Rewa
			do.	400-650	145	40-115	Sandy loam to clay soil.	III	do.	do.	1-00	E-Sidhi	do.
			do.	450-500	125	68-111	Sandy to clay	III	do.	do.	1-00	W-Sidhi	do.
			do.	425-500	125-150		Sandy to sandy loam.	IV	do.	do.	0-5	Umaria	do.
140	<i>Terminalia chebula</i>	Harra	Ukwa Range	550	165	35-105	Lateritic	IV-a	April-May	Nov.-March	0-20	N-Balaghat	Balaghat
		do.	All Ranges	500	150	40-115	Sandy	IV	do.	do.	0-50	N-Seoni	do.
		do.	do.	350-600	135	50-110	Lateritic and Sandy.	IV-III	do.	do.	0-50	S-Seoni	do.
		do.	do.	40-670	170	45-106	Sandy loam	II/III to gritty.	do.	do.	0-50	E-Bastar	Bastar
		do.	do.	304-914	140-190	98-103	Sandy	III	do.	do.		N-Bastar	do.
		do.	do.	662	152	40-105	Sandy loam	IV	do.	do.	1-00	S-Bastar	do.
		do.	do.	550-650	130	59-104	All type	IV	do.	do.	0-50	Kanker	do.

do.	do.	1200	138	40-110	Well drained III sandy loam.	do.	do.	1-00	N-Surguja	Bilaspur
do.	do.	327-1152	138	35-110	III	do.	do.	2-00	S-Surguja	do.
do.	do.	549-1029	53-144	40-102	Well drained III sandy loam.	do.	do.	2-00	Korea	do.
do.	do.	500-1000	131-152	35-116	Sandy loam II, III	do.	do.	0-50	Jashpur	do.
do.	do.	500	150-175	73-75	Well drained III sandy loam.	do.	do.	1-00	S-Mandla	Central
do.	do.	350-700	125	40-115	Sandy loam IV-a & b Laterite.	do.	do.	2-02	Jabalpur	do.
do.	do.	660	101-127	34-105	Well drained II & III sandy loam.	do.	do.	0-50	S-Betul	Hoshangabad
do.	Bori	500-700	80-120	40-110	Black cotton III/IV-b Loam.	do.	do.	0-50	Hoshangabad	do.
do.	All Ranges	400-600	125	40-112	Sandy loam II, III	do.	do.	1-00	E-Raipur	Raipur
do.	do.	300-400	122	40-114	Shallow soil III	do.	do.	0-5	N-Panna	Rewa
do.	do.	400-650	145	104-113	All type of soil III	do.	do.	0-05	E-Sidhi	do.
do.	do.	450-500	125	68-111	Sandy to III Sandy loam.	do.	do.	1-00	W-Sidhi	do.
do.	do.	425-500	125-150		Sandy to IV Sandy loam.	do.	do.	1-00	Umaria	do.

141	Terminalia tomentosa.	Saja	All Ranges	650	165	35-105	Laterite	IV-a	May-June	Feb.-March	0-20	N-Balaghat	Balaghat
		do.	do.	300-600	127-152	35-85	Sandy	II, III	do.	do.	2-00	S-Balaghat	do.
		do.	do.	500-1000	115	37-103	Alluvium	III, IV	do.	do.	1-00	E-Chhindwara	do.
		do.	do.	700	103	40-107	do.	III, IV	do.	do.	1-00	S-Chhindwara	do.
		do.	do.	800	125	40-105	Sandy	III, IV	do.	do.	5-00	W-Chhindwara	do.
		do.	do.	500-600	130-150	40-105	Alluvium	IV, III	do.	do.	10-00	N-Seoni	do.
		do.	do.	350	130-150	50-110	Alluvium	III, IV	do.	do.	10-00	S-Seoni	do.
		Saja, Adan.	do.	36-825	170	45-106	Sandy loam to clayey.	II, III	do.	do.	2-00	E-Bastar	Bastar
		Saja	do.	305-914	140-190	98-103	Sandy	III, II	do.	do.	4-00	N-Bastar	do.
		do.	do.	662	152	40-105	Sandy loam Red.	III	do.	do.	10-00	S-Bastar	do.
		do.	do.	330-480	182	50-105	Sandy	II, III	do.	do.	1-00	W-Bastar	do.
		do.	do.	550-650	180	59-140	All type	III	do.	do.	2-00	Kanker	do.
		do.	do.	1219	179	60-120	Sandy loam	III	do.	do.	5-00	Bilaspur	Bilaspur
		do.	do.	364-1125	143	66-86	Sandy	III	do.	do.	5-00	N-Bilaspur	do.
		do.	do.	198-982	152	82-108	Sandy	III	do.	do.	20-00	Raigarh	do.
		do.	do.	325-1200	138	34-110	Sandy	III	do.	do.	10-00	N-Surguja	do.
		do.	do.	327-1152	138	34-110	Sandy loam	III	do.	do.	20-00	S-Surguja	do.
		do.	do.	548-1029	53-144	40-102	Sandy	III, IV	do.	do.	20-00	Korea	do.
		do.	do.	300-1000	137-152	43-116	Lateritic and Sandy.	II, III	do.	do.	10-00	Jashpur	Bilaspur
		do.	do.	600-700	101	42-101	Sandy loam Red.	III	do.	do.	10-00	E-Bhopal	Bhopal

SEED DIRECTORY OF FOREST DEPARTMENT

S. No.	Botanical name	Local name	Range in which found	Locality factor			Soil type	Quality of locality	Phenology		Approximate quantity of seed that can be available in quintal (12)	Division	Circle
				Altitude in metres (5)	Rain fall average in cms. (6)	Temperature variation in F. (7)			Time of fruiting (10)	Time of collection (11)			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Terminalia tomentosa.	Saja	All Ranges	457	127-152	42-101	Laterite, Black cotton.	IV	May-June	Feb.-March	1-00	W-Bhopal	Bhopal
	do.	do.	do.	396-579	127	40-112	Sandy	IV, III	do.	do.	10-00	Sagar	do.
	do.	do.	do.	518	115	90-104	Sandy, Black cotton.	IV-b	do.	do.	20-00	Raisen	do.
	do.	do.	do.	500	175	40-102	Sandy rocky	III, IV	do.	do.	20-00	S-Mandla	Central
	do.	do.	do.	400-550	100-150	50-115	Clay loam	II	do.	do.	10-00	Narsimhapur	do.
	do.	do.	do.	350-700	125	40-115	Sandy loam	IV-a & b	do.	do.	2-00	Jabalpur	do.
	do.	do.	do.	305-549	152	41-107	Laterite.	IV	do.	do.	2-00	Guna	Gwalior
	do.	do.	do.	660	101-127	34-105	Sandy loam		do.	do.	1-20	S-Betul	Hoshangabad
	do.	do.	do.	324-1125	100			IV-a	do.	do.	2-00	Harda	do.
	do.	do.	do.	500-700	80-120	40-110	Black cotton	III/IV-b	do.	do.		Hoshangabad	do.
	do.	do.	do.	464	102	50-93	Red loam.	III, IV	do.	do.	5-00	Dewas	Indore
	do.	do.	do.	250-750	110	104-113	Black cotton	IV	do.	do.	5-00	Dhar	do.
	do.	do.	do.	250-600	75-100	72-85	Sandy	IV	do.	do.	2-00	Indore	do.
	do.	do.	do.	250-800	75	60-115	Alluvium soil	IV, III	do.	do.	5-00	Jhabua	do.
	do.	do.	do.	183-610	50-76	50-118	Sandy	IV	do.	do.	1-00	E-Khargone	do.
	do.	do.	do.	350	76	50-118	Sandy loam	III, IV	do.	do.	5-00	W-Khargone	do.
	do.	do.	do.	400-900	115	40-118	Sandy loam	III, IV	do.	do.	4-00	N-Durg	Raipur
	do.	do.	do.	336-612	102-152		Sandy loam	III, IV	do.	do.	2-00	S-Durg	do.
	do.	do.	do.	400-600	125	125	Sandy loam	II, III	do.	do.	5-00	E-Raipur	do.
	do.	do.	do.	850-1100	140-150	80-105	Red loamy	III	do.	do.	5-00	N-Raipur	do.
	do.	do.	do.	330-640	140	50-112	Sandy loam	III, II	do.	do.	2-00	S-Raipur	do.
	do.	do.	do.	366-457	165	42-112	Brown sandy loam.	IV	do.	do.	2-00	Chhatarpur	Rewa
	do.	do.	do.	300-400	122	40-114	Shallow	III	do.	do.	5-00	N-Panna	do.
	do.	do.	do.	800	114	40-108	Sandy loam and Black cotton.		do.	do.	1-00	S-Shahdol	do.
	do.	do.	do.	400-650	140	104-113	Sandy loam to clayey soil.	IV	do.	do.	5-00	E-Sidhi	do.
	do.	do.	do.	500	125	68-111	Sandy loam to clayey soil.	IV	do.	do.	10-00	W-Sidhi	do.
	do.	do.	do.	425-700	125-150	40-115	Sandy loam.	IV-III	do.	do.	15-00	Umaria	do.

142	<i>Themada triandra</i>	Bhond	All Ranges	350-700	125	40-115	Sandy loam Laterite.	IV-a & b	Sept.-Oct.	Oct.-Dec.	0-01	Jabalpur	Central
143	<i>Themeda quadrivalvis.</i>	Gunher	Keolari	500-600	130-150	40-115	Sandy	IV-a, III	Oct.-Nov.	Nov.-Dec.	0-50	N-Seoni	Balaghat
			Rajgarh	457	95	42-101	Laterite	IV	do.	do.	0-50	W-Bhopal	Bhopal
144	<i>Thespesia lampas</i>	Bankapus	All Ranges	325-1200	138	34-110	Sandy loam	III	Aug.-Sept.	Feb.-March	0-12	N-Surguja	Bilaspur
			do.	327-1100	138	34-110	Well drained sandy loam.		do.	do.	0-10	S-Surguja	do.
145	<i>Toona ciliata</i>	Toon	All Ranges	1200	138	34-110	Sandy loam	III	February	May	0-05	N-Surguja	Bilaspur
			do.	327-1152	138	34-110	Well drained gandy.	III	do.	do.	0-05	S-Surguja	do.
146	<i>Vetiveria zizanoides.</i>	Khus	Balaghat	600	152	35-105	Sandy	III-IV	Dec.-Jan.	April-May	0-10	S-Balaghat	Balaghat
			All Ranges	363-1125	143	66-86	Sandy, Clayey loam.		do.	do.	0-10	N-Bilaspur	Bilaspur
			do.	548-1029	78-144	66-91	Sandy loam Red.	III, IV	do.	do.	0-50	Korea	do.
			do.	350-700	125	40-115	Laterite, Sandy loam.	IV-a & b	do.	do.	0-10	Jabalpur	Central
			do.	549	152	42-112	All type	IV-b	do.	do.	0-05	Guna	Gwalior
147	<i>Vitex negundo</i>	Nirgur	All Ranges	300-600	137	43-116	Sandy loam	IV	Oct.-Dec.	Oct.-Dec.	0-20	Jashpur	Bilaspur
			do.	464	102	50-93	Sandy	III, IV	do.	do.	0-50	Dewas	Indore
			Indore	250-600	75-100	40-104	Sandy loam	IV-b	do.	do.	0-20	Indore	do.
			All Ranges	182-609	50-76	50-118	Clay loam	IV	do.	do.	0-50	E-Khargone	do.
148	<i>Woodfordia fruticosa.</i>	Dhawai	All Ranges	1000	115	40-103	Sandy	III, IV	Jan.-April	April-June	0-50	E-Chhindwara	Balaghat
			do.	700	103	40-107	do.	III, IV	do.	do.	0-20	S-Chhindwara	do.
			do.	800	125	40-105	Sandy	III, IV	do.	do.	0-50	W-Chhindwara	do.
			do.	198-982	152	82-108	Sandy	IV	do.	do.	0-50	Raigarh	Bilaspur
			do.	325-1200	138	34-110	Sandy loam	III	do.	do.	0-12	N-Surguja	do.
			do.	327-1152	138	34-110	Well drained sandy loam.	III	do.	do.	0-12	S-Surguja	do.
			do.	1029	53-144	40-102	Sandy	III, IV	do.	do.	0-50	Korea	do.
			do.	300-1000	137-165	35-114	All places	IV	do.	do.	0-50	Jashpur	do.
			do.	350-700	125	40-115	Sandy loam Laterite.	IV-a & b	do.	do.	0-20	Jabalpur	Central
			do.	250-700	95	40-110	Sandy loam	IV, V	do.	do.	0-50	Dhar	Indore
			do.	425-600	125-150	52-110	Sandy to sandy loam.		Jan.-April	April-June	0-20	Umaria	Rewa
149	<i>Wrightia tomentosa</i>	Dudhi	All Ranges	662	152	40-104	Sandy loam	IV	April-June	Jan.-April	0-10	S-Bastar	Bastar
			do.	464	102	50-93	Sandy loam	III, IV	do.	do.	0-20	Dewas	Indore
150	<i>Zizyphus jujuba</i>	Ber	All Ranges	350-700	125	40-115	Sandy loam Laterite.	IV-a & b	April-Oct.	Oct.-March	1-00	Jabalpur	Central
			do.	464	102	50-93	Sandy loam	III, IV	do.	do.	2-00	Dewas	Indore

SEED DIRECTORY OF FOREST DEPARTMENT

S. No.	Botanical name	Local name	Range in which found	Locality factor			Soil type	Quality of locality	Phenology		Approximate quantity of seed that can be available in quintal (12)	Division	Circle
				Altitude in metres (5)	Rain fall average in cms. (6)	Temperature variation in F. (7)			Time of fruiting (10)	Time of collection (11)			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
151	Zizyphus xylopyra	Ghont Ghator	Ukwa	525	105	35-105	Sandy	IV	April-June	Jan.-April	0.05	N-Balaghat	Balaghat
			All Ranges	548-1029	53-144	40-102	Sandy loam	III, IV	do.	do.	0.50	Korea	Bilaspur
		do.	350-700	125	40-115	Sandy loam	IV-a & b	do.	do.	0.20	Jabalpur	Central	
		do.	464	102	50-93	Laterite.		do.	do.	2.00	Dewas	Indore	
		do.	666	88-90	46-112	Sandy loam	III, IV	do.	do.	1.00	Shivpuri	Gwalior	
							Sandy loam	IV-b	do.	do.			
							Laterite.						