

# SEED COLLECTION AND SOWING FOR BIODIVERSITY AND LIVELIHOOD

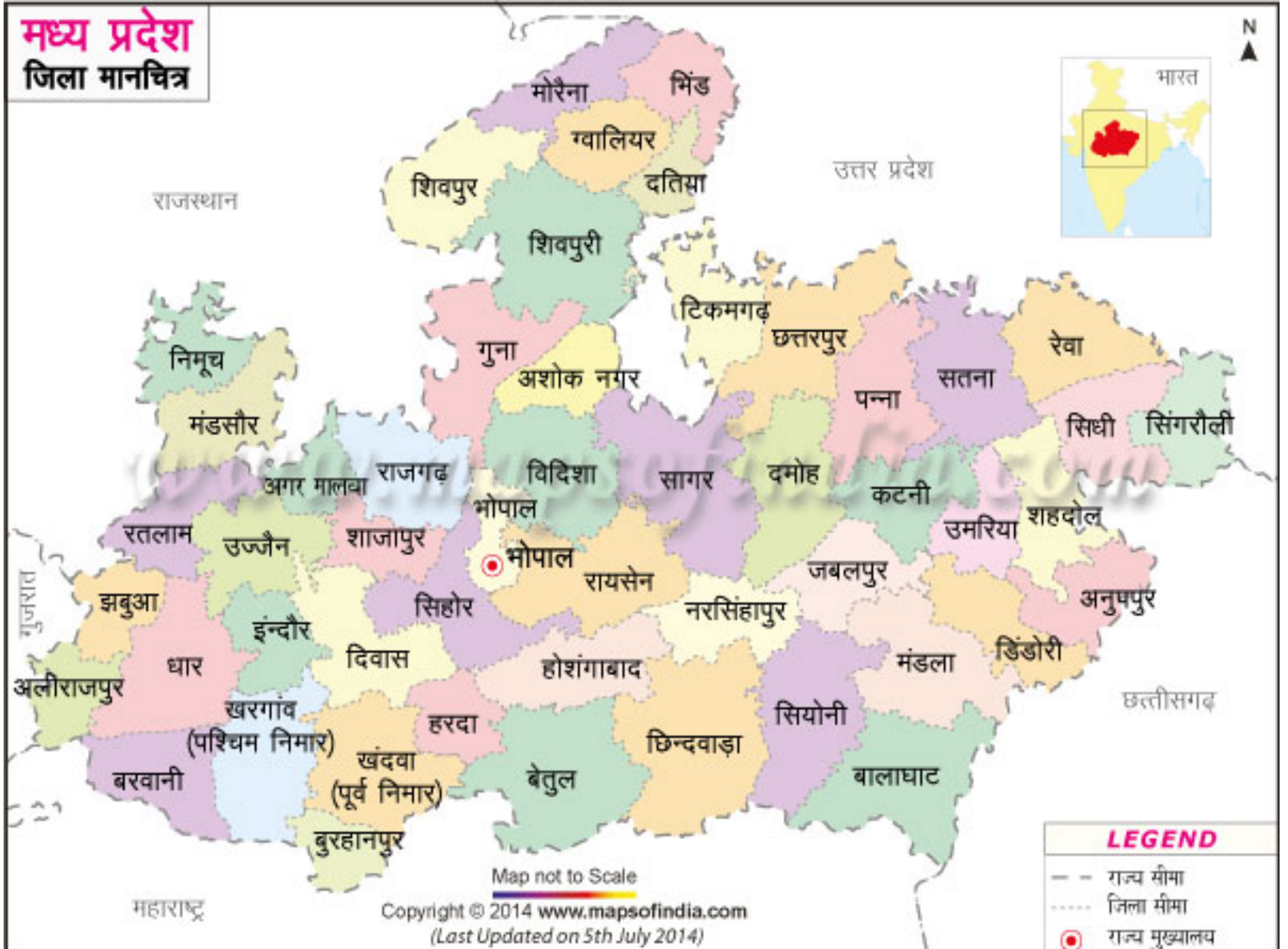
DHAR FOREST DIVISION

AKSHAY RATHORE, DCF

SANTOSH KUMAR RANSHORE, ACF



# मध्य प्रदेश जिला मानचित्र



# DHAR DIVISON

TYPE OF FOREST	AREA IN HA	PERCENTAGE
DENSE FOREST	941	0.81
OPEN FOREST	26889	23.24
BLANK FOREST	42747	36.94
REST (PLANTATION, FRA ETC)		



# धार — वनमंडल

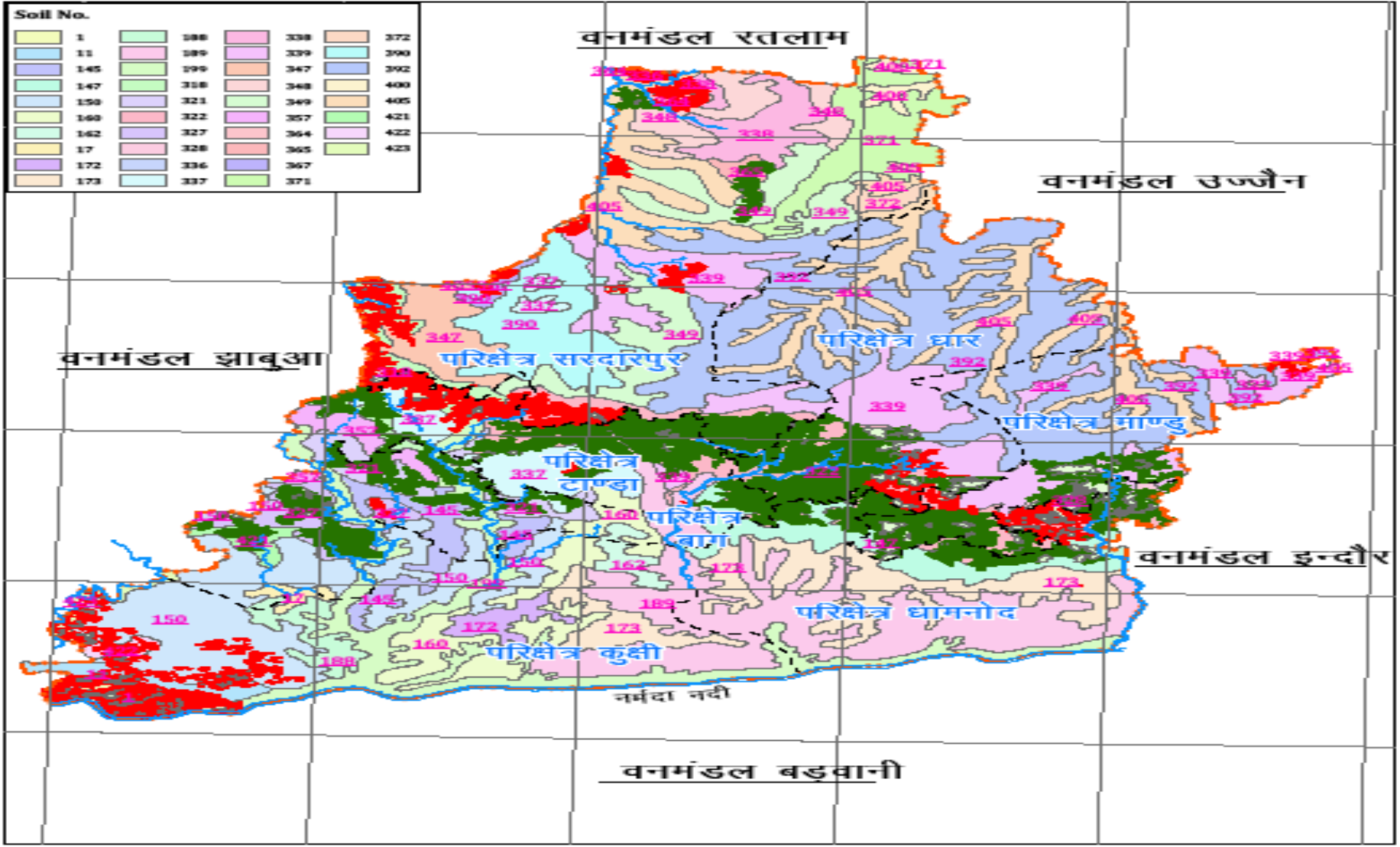
## मृदा मानचित्र



1:750,000

74°30'0"E      74°45'0"E      75°00'0"E      75°15'0"E      75°30'0"E      75°45'0"E

Soil No.			
1	188	338	372
11	189	339	390
145	199	347	392
147	318	348	400
150	321	349	405
160	322	357	421
162	327	364	422
17	328	365	423
172	336	367	
173	337	371	



74°30'0"E      74°45'0"E      75°00'0"E      75°15'0"E      75°30'0"E      75°45'0"E

### INDEX SHEET

46I	46M	55A
46J	46N	55B
46K	46O	55C

0 5 10 20 30 40 Kilometers

1 सेमी. = 7.5 किमी.

### संकेतिका :-

- आरक्षित वन
- संरक्षित वन
- वनमंडल सीमा
- परिक्षेत्र सीमा
- नदियां

# INTRODUCTION

- ▶ EVERY YEAR FOREST TREES IN THE AREA PRODUCE SUBSTANTIAL QUANTITY OF SEEDS.
- ▶ BECAUSE OF NON-UTILISATION, MANY ARE LOST DUE TO GRAZING AND FIRE.
- ▶ SCIENTIFIC COLLECTION OF THE LOCALLY PRODUCED SEEDS ENABLED CONSERVING BIODIVERSITY OF THE AREA
- ▶ COLLECTING SEEDS THROUGH THE JFMCS ELIMINATED THE SCOPE OF BUYING FROM OUTSIDE AGENCY.
- ▶ COLLECTION OF SEEDS PROVIDED THE MUCH NEEDED LIVELIHOOD OPPORTUNITY FOR THE FOREST DEPENDENT COMMUNITIES.
- ▶ THE SOURCE OF THE COLLECTED SEEDS IS VERIFIED.

# STRATEGY

- ▶ LISTING OF ALL THE LOCAL IMPORTANT SPECIES ALONG WITH DETAILS OF THEIR FLOWERING, FRUITING AND SEEDING TIMINGS.
- ▶ CONSTANT MONITORING OF DAILY COLLECTION OF SEEDS ACCORDING TO THE TIME TABLE PREPARED.
- ▶ MSP FOR MFP WAS USED FOR THE GUIDING RATES OF COLLECTION
- ▶ REQUIRED TREATMENT IS GIVEN TO SEEDS
- ▶ AUTHENTICITY OF THE DATA COLLECTED  
(ANNEXURE 1 AND 2)



# SEED COLLECTION















# SITE SELECTION

- ▶ ALL PLANTATION SITES AND AREAS TAKEN UP UNDER SOIL MOISTURE CONSERVATION IN THE PREVIOUS YEARS.
- ▶ DIMENSIONS OF CPT (CATTLE PROOF TRENCH), STAGGERED TRENCHES AND CHECKDAMS ARE RECORDED.
- ▶ BASED ON ABOVE DATA, QUANTITY OF SEED TO BE COLLECTED IS ESTIMATED SPECIES WISE DEPENDING ON THE REQUIREMENT OF THE SITE.
- ▶ TRAINING OF THE FRONTLINE STAFF ON SEED COLLECTION, PROCESSING AND SOWING



# Sites











Latitude: 22°29'6"  
Longitude: 75°12'34"  
Accuracy: 3300.0 m  
Time: 30-06-2021 10:28:50  
Note: 125(1)









# SEED PREFERENCE & TREATMENT

- ▶ FOR CPT-
  - ▶ SPECIES LIKE PROSOPIS, KHAIR, BABOOL, BER, CASTAR, REONJHA ARE MIXED IN SAME RATIO.
- ▶ FOR PLANTAION SITES-
  - ▶ SPECIES LIKE SEETAFAL, MAHUA, CHIROL, BAHEDA, SISSOO, TAMARIND, JUNGLE JALEBI , SAJA, SIRAS, MAHARUKH ARE GIVEN PREFERENCE .
- ▶ FOR CCT AND STAGGERED TRENCHES-
  - ▶ MIX OF ALL THE SPECIES.
- ▶ ALL THE SEEDS ARE TREATED WITH FUNGICIDES AND GROWTH HORMONES.



# SEED TREATMENT





























# SOWING TECHNIQUE

- ▶ CPT -
  - ▶ SOWN IN 3 LINES AT AN INTERVAL OF 15 CM AND SEEDS SOWN AT A SPACING OF 15 CM.
- ▶ FOR CCT AND STAGGERED TRENCHES-
  - ▶ SOWN IN 3 LINES AT AN INTERVAL OF 15 CM
- ▶ AS CASUALTY REPLACEMENT-
  - ▶ 2 SEEDS ARE SOWN IN THE PIT.



# SEED SOWING

Latitude: 22°25'39"  
Longitude: 75°12'26"  
Elevation: 397.82 m  
Accuracy: 3.2 m  
Time: 03-06-2021 12:19  
Note: bij buvay













Latitude: 22°25'26"  
Longitude: 75°12'45"  
Elevation: 438.35 m  
Accuracy: 4.3 m  
Time: 04-06-2021 11:06  
Note: bij buvay



# MSP ISSUED FOR VARIOUS FOREST PRODUCE BY MP VANOPAJ SANGH

S.No.	Name of Forest produce	Rate per KG		S.No.	Name of Forest produce	Rate per KG
1	अचार गुटली	130		17	लाख रंगीनी	200
2	बहेड़ा	25		18	शहद	225
3	हर्रा	20		19	महुआ फूल	35
4	बेलगूदा	30		20	नागरमोथा	35
5	करंज बीज	40		21	आंवला गूदा	52
6	महुआ गुल्ली	35		22	अनन्त मूल	35
7	नीम बीज	30		23	अर्जुन छाल	21
8	साल बीज	20		24	गिलोय	40
9	जामुन बीज	42		25	कालमेघ	35
10	मार्किंग नट (भिलावा)	09		26	धवई फूल	37
11	अमलताश बीज	13		27	वन तुलसी पत्तियां	22
12	कोंच बीज	21		28	कुटज (सूखी छाल)	31
13	बायबडंग बीज	94		29	मकोय (सूखे फल)	24
14	इमली बीज सहित	36		30	अपंग पौधा	28
15	चकोड़ा बीज	20		31	सतावरी	107
16	लाख कुसम	275		32	गुड़मार	41



# बीज से प्राप्त अंकुरित पौधे







बहेडा



महानीम



प्रोसोपीस



जंगल जलेबी





बेर



पलाश



खमेर



सागौन

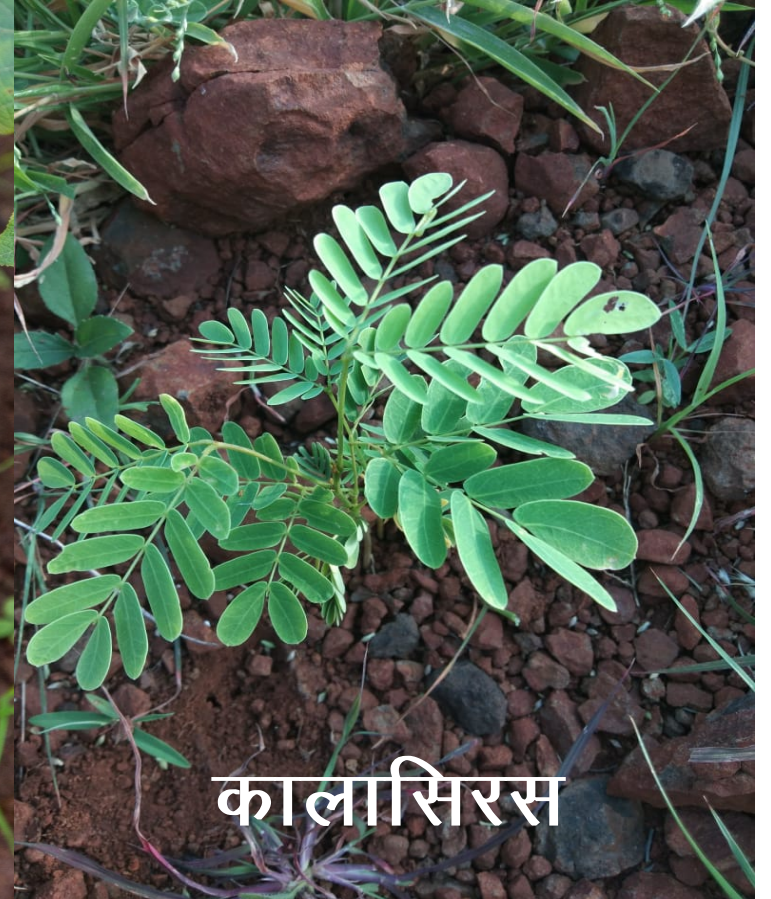




सीताफल



सुबबूल



कालासिरस



खैर



महूआ



करंज

Latitude: 22.072791  
Longitude: 74.612019  
Elevation: 267.07422 m  
Accuracy: 3.0 m  
Time: 07-27-2021 12:30





















vivo S1 Pro  
48MP AI Quad Camera



Latitude: 22.43012  
Longitude: 75.391813  
Altitude: 566.46±17 m  
Accuracy: 13.1 m  
Time: 09-03-2021 13:36  
Note: kakalpura

Powered by NoteCam



# Local Forest Species for Seed sowing (Annex-1)

S.No	Local Name	Scientific Name	Seed Collection period	No. of seed per KG	Viability	Germination percent	Seed treatment	Soil type	Remark
1	2	3	4	5	6	7	8	9	10
1	Sitafal, Sarifa	Annona squamosa	Sept.-Oct.	5500-6000	1 Year	80%	ठण्डा पानी 24 घण्टें	—	—
2	Kastar	&	April	-	—	-	—	काली मिट्टी, दोमट कछार जमीन, लाल मिट्टी, गहरी मुरम जमीन	—
3	Khair	Acacia catechu	Feb.-March	40000	6-12 Month	60-80%	गर्म पानी 24-48 घण्टे	उथली मुरमी जमीन, सख्त मुरुमी पथरीली जमीन	—
4	Prosopis	Prosopis juliflora	Feb.-March	.	5 Year	-	गर्म पानी 24-48 घण्टे	—	20% H2so4 1 घण्टे
5	Ber	Zizyphus mauritiana	Dec.-March	1224-1760	1-2 Year	31-95%	ठण्डे पानी का उपचार	सख्त मुरुमी पथरीली जमीन	नटकटर से काटकर
6	Siris	Alibizia lebek	Jan.-March	8000-13000	2 वर्ष से अधिक	60-94%	गर्म पानी 24-48 घण्टे	काली मिट्टी, दोमट कछार जमीन	—
7	Saja	Terminalia tomentosa	Feb.-March Next year	700-800	6-12 Month	50-60%	आवश्यकता नहीं	—	—
8	Arjun, Koha	Terminalia arjuna	March-May	775	6-12 Month	50-60%	आवश्यकता नहीं	—	—
9	Aonla	Emblica officinalis	Nov.-Feb.	6800-8000	1 Month	40%	आवश्यकता नहीं	लाल मिट्टी, गहरी मुरम जमीन, उथली मुरुमी जमीन	—



S.No	Species and Local Name	Scientific Name	Seed Collection period	No. of seed per KG	Viability	Germination percent	Seed treatment	Soil type	Remark
1	2	3	4	5	6	7	8	9	10
11	Sagon, Teak	Tectona grandis	Jan.-March	2150-3100	1-2 Year	10-60%	बीज को भिगोने एवं सुखाने का उपचार	काली मिट्टी, दोमट कछार जमीन, लाल मिट्टी, गहरी मुरम जमीन	नटकटर से काटकर
12	Rinjha	Acacia leucophloea	March-April	-	-	-	-	सख्त मुरुमी पथरीली जमीन	-
13	Mokha	Schrebera swietenoides	March-April	5000	1 Year	50-60%	-	-	-
14	Sissoo	Dalbergia sissoo	Dec.-Jan	55000	1 Year	90%	ठण्डा पानी 24 घण्टें	काली मिट्टी, दोमट कछार जमीन, लाल मिट्टी, गहरी मुरम जमीन, उथली मुरुमी जमीन,	-
15	Shisham	Dalbergia latifolia	Feb. March	53000	6-12 Month	90%	ठण्डा पानी 24 घण्टें	-	-
16	Medsingi	Dolichandrone faleata	March-April	4000-5000	1 Year	20-30%	गर्म पानी का उपचार	-	10-15 मिनट बावीस्टीन में
17	Dhawda	Anogeissus latifolia	April	108000-135000	1 Month	3-5%	ठण्डा पानी 48 घण्टें	लाल मिट्टी, गहरी मुरम जमीन	-
18	Gadhapalas	Erythrina suberosa	May	1000	1 Year	80-90%	-	-	-
19	Karanj	Pongamia pinnata	May	-	-	-	-	काली मिट्टी, दोमट कछार जमीन,	-
20	Baheda	Terminalia belerica	Nov. -Feb.	423	Month	30-60%	आवश्यकता नहीं	-	नटकटर से काटकर
21	Dhudhi	Wrightia tinctoria	April-May	-	-	-	-	-	-



S.No	Species and Local Name	Scientific Name	Seed Collection period	No. of seed per KG	Viability	Germination percent	Seed treatment	Soil type	Remark
1	2	3	4	5	6	7	8	9	10
22	Achar, Chirongi	Buchanania lanzan	May	3500-4000	6-12 Month	50-70%	—	—	नटकटर से काटकर
23	Anjan	Hardwickia binata	May	-	1 Year	-	—	—	—
24	Salai	Boswellia serrata	May-June	14000-15000	6-12 Month	40-50%	—	—	—
25	Haldu	Adina cordifolia	April	125000-150000	1 Year	20-30%	—	—	—
26	Kusum	Schleichera oleosa	June	2000-2500	6 Month	60-70%	—	—	—
27	Palash, Dhak	Butea monosperma	June	500-700	1 Year	80-90%	—	काली मिट्टी, दोमट कछार जमीन,	—
28	Chirol	Holoptelia integrifolia	May-June	-	1 Year	60-70%	—	—	—
29	Mahaneem	Ailanthus excelsa	May-June	9500	1-6 Month	70-90%	आवश्यकता नहीं	—	—
30	Semal	Bombax ceiba	March-May	21400-38500	6-12 Month	14-75%	आवश्यकता नहीं	—	—
31	Jangal Jalebi	Pithecolobium dulce	March-May	-	1 Year	80-90%	—	—	—
32	Kullu	Sterculia urens	May	5500-6000	6-9 Month	45-70%	—	—	—



S.No	Species and Local Name	Scientific Name	Seed Collection period	No. of seed per KG	Viability	Germination percent	Seed treatment	Soil type	Remark
1	2	3	4	5	6	7	8	9	10
33	Babool	Acacia nilotica	April	7000-11000	2 वर्ष से अधिक	88%	गर्म पानी का उपचार	काली मिट्टी, दोमट कछार जमीन, उथली मुरुमी जमीन	—
34	Imli	Tamarindus indica	March-April	1800	1-2 Year	66%	ठण्डे पानी का उपचार	—	—
35	Lendiya	Lagerstroemia parviflora	—	-	-	-	—	—	—
36	Khamer	Gmelina arborea	—	-	3 Month	-	—	दोमट कछार जमीन, लाल मिट्टी, गहरी मुरम जमीन	नटकटर से काटकर
37	Amaltas	Cassia fistula	March-April	6000-7000	2 वर्ष या अधिक	22-60%	गर्मपानी का उपचार	—	—
38	Bans, Bamboo	Dendrocalamus strictus	April-June	32000	6-12 Manth	25-80%	ठण्डे पानी का उपचार	दोमट कछार जमीन, लाल मिट्टी, गहरी मुरम जमीन	—
39	Mahua	Madhuca indica	June-Aug.	450	1 माह से कम समय	90%	आवश्यकता नहीं	—	—
40	Tendu	Diospyros melanoxylon	June	-	—	-	—	—	—
41	Jamun	Syzygium cuminii	June	1200	1 माह से कम समय	90%	आवश्यकता नहीं	—	—
42	Neem	Azadirachta indica	June-Aug.	3330	1 माह से कम समय	95%	आवश्यकता नहीं	काली मिट्टी, दोमट कछार जमीन, लाल मिट्टी, गहरी मुरम जमीन	—



S.No	Species and Local Name	Scientific Name	Seed Collection period	No. of seed per KG	Viability	Germination percent	Seed treatment	Soil type	Remark
1	2	3	4	5	6	7	8	9	10
44	Kachnar	Bauhinia variegata	May	-	-	-	-	-	-
45	Beeja	Pterocarpus marsupium	March	-	-	-	-	-	-
46	Safed Siris	Albizzia procera	March-May	-	5 वर्ष	-	-	काली मिट्टी, दोमट कछार जमीन	-
47	Surjana, Munga	Moringa concansis	Feb.-May	-	-	-	-	-	-
48	Safeda	-	Sept.-Oct.	367400	6-12 Month	90%	आवश्यकता नहीं	-	-
49	Subabool	Leucaena leucocephala	Jan.	15000-16000	6-12 Month	80-90%	गर्म पानी का उपचार	लाल मिट्टी, गहरी मुरम जमीन	-
50	Lasoda, Gondi	Cardia dichotoma	June-July	5000-6000	6-12 Month	80-90%	गर्म पानी का उपचार	-	-



## Details of Seed collection (Annex-2)

<b>S.N.</b>	<b>Range</b>	<b>Area of Seed Sowing</b>	<b>No. of species</b>	<b>Seed Collected in KG</b>	<b>Requirement in KG</b>	<b>Balance in KG</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
1	Sardarpur	385.00	20	2874	1097	1777
2	Tanda	360.75	14	1354	243	1111
3	Bagh	60.00	10	895	100	795
4	Kukshih	731.00	05	1897.25	374	1523.25
5	Dhar	370.00	29	5642	401	5241
6	Dhamnod	170.00	11	368	96	272
7	Mandu	585.00	06	214	360	—
<b>Total</b>		<b>2661.75</b>		<b>13244.25</b>	<b>2671</b>	<b>10719.25</b>



### Rangewise Details of Seed Collection (In Kg)

S.NO.	Name of Species	Scientific Name	Name of the Range							Total
			Sardarpur	Tanda	Bagh	Kukshi	Dhar	Mandav	Dhamnod	
1	Sitafal	Annona squamosa	0	50	80	226	100	50	14	520
2	Kastar	Albizzia amara	70	50	110	0	12	20	16	278
3	Kher	Acacia catechu	450	46	0	152	35	0	0	683
4	Prosopis	Prosopis juliflora	0	150	0	383	15	0	15	563
5	Ber	Zizyphus mauritiana	230	10	225	0	486	0	15	966
6	Siras	Albizzia procera	20	0	5	0	7	0	0	32
7	Sadad	Terminalia tomentosa	645	220	0	0	768	15	60	1708
8	Arjun	Terminalia arjuna	0	0	0	0	0	17	0	17
9	Amla	Emblica officinalis	75	0	5	0	60	0	0	140
10	Dhovan	Grewia tiliaefolia	0	0	0	0	18	0	0	18
11	Sagon	Tectona grandis	315	0	160	654	2006	72	66	3273
12	Shisham	Dalbergia latifolia	0	0	0	0	200	0	0	200
13	Dhawda	Anogeissus latifolia	0	0	0	0	36	0	5	41
14	Karanj	Pongamia pinnata	70	0	20	0	50	0	0	140
15	Baheda	Terminalia belerica	60	400	120	0	1110	40	145	1875
16	Dudhi	Wrightia tinctoria	2	0	0	0	5	0	0	7
17	Palash	Butea monosperma	0	10	0	0	0	0	0	10
18	Chirol	Holoptelia integrifolia	45	15	0	0	0	0	0	60
19	Mahaneem	Kirganelia reticulata	5	60	0	0	12	0	0	77
20	Jungle Jalebi	Pithecolobium dulce	0	0	0	0	15	0	0	15
21	Babool	Acacia nilotica	0	0	100	0	300	0	24	424
22	Imli	Tamarindus indica	0	198	60	0	150	0	0	408
23	Lendiya	Anogeissus latifolia	95	5	0	0	66	0	0	166
24	Khamer	Gmelina arborea	0	0	0	0	35	0	0	35
25	Amaltash	Cassia fistula	80	30	0	0	22	0	0	132
26	Baans	Dendrocalamus strictus	0	0	0	0	0	0	5	5
27	Subabool	Leucaena leucocephala	0	110	0	0	86	0	0	196
28	Sonpati	Bauhinia racemosa	10	0	0	0	0	0	0	10
29	Bakan	Melia azedarach	25	0	0	0	6	0	0	31
30	Patri		15	0	0	0	5	0	0	20
31	Ghatbor	Zizyphus xylopyra	0	0	0	0	0	0	3	3
32	Gulmohar	Delonix regia	0	0	10	0	5	0	0	15
33	Kawatiya		0	0	0	0	5	0	0	5
34	Glesidiya Fali		0	0	0	0	5	0	0	5
35	Cassia siamea	Cassia siamea	0	0	0	0	22	0	0	22
36	Bel	Aegle marmelos	550	0	0	0	0	0	0	550
37	Peepal	Ficus religiosa	12	0	0	0	0	0	0	12
38	Kabit	Feronia limonia	100	0	0	0	0	0	0	100
39	Mixed Species	-	0	0	0	482.3	0	0	0	482.25
	Total		2874	1354	895	1897	5642	214	368	13244.25



Regeneration Survey														
S.No	Range	Place/ Compartment No.	Area (In Hec.)	Germina tion on CCT	Regeneration Survey								Seeds to be needed (Quantity in KG.)	Remark
					May 2021 (In Per Hec.)				Oct 2021 (In Per Hec.)					
					Establis hed	Unestablis hed	Recruits	Regenerati on	Establishe d	Unestablis hed	Recruits	Regenera tion		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Dhar	125 Coup No. I Ambakundi	50	14425	0	600	0	150	0	700	3500	175	35	Increase in Regeneratio n
2	Dhar	125 Coup No. III Ambakundi	50	12550	575	1600	0	975	575	4310	6160	1653	31	
3	Dhar	126 Coup No. V Chaklya	50	15000	200	20	0	205	200	100	8880	225	46	
4	Dhar	193 Coup No. III Bhasamgarh	50	30000	400	700	0	575	400	800	4440	600	62	
5	Dhar	140 Coup No. I Semlipura	40	22040	480	800	0	680	480	860	3152	695	54	
6	Dhar	527 Coup No. III Haidri	40	15982	400	100	0	425	400	200	2220	450	56	
7	Dhar	200 Coup No. III Kamta	50	29280	500	600	0	650	500	700	6660	675	92	
		Total	330	139277	2555	4420	0	3660	2555	7670	35012	4473	376	
8	Mandav	CNo. 523 Mehndikhedi	60.71	₹	0	750	0	188	0	1333	2000	333	35	Increase in Regeneratio n
9	Mandav	CNo. 524 Mehndikhedi	107.34	₹	0	710	0	178	0	2167	2050	542	32	
10	Mandav	CNo. 255 Mogradav	100	₹	0	830	0	208	0	1757	1020	439	54	
11	Mandav	CNo. 244 Lavani	18	₹	0	665	0	166	0	1611	2000	403	30	
12	Mandav	CNo. 338 Banjari	100	10000	400	475	0	519	400	1202	1020	701	65	
13	Mandav	CNo. 329 Banjari	100	₹	0	520	0	130	0	1100	500	275	48	
14	Mandav	CNo. 486 Patada	50	₹	0	810	0	203	0	3210	3020	803	54	
15	Mandav	CNo. 485 Patada	100	10000	400	795	0	599	400	2520	2600	1030	42	
		Total	636.05	20000	800	5555	0	2191	800	14900	14210	4526	360	



Regeneration Survey

S.No	Range	Place/ Compartment No.	Area (In Hec.)	Germina tion on CCT	Regeneration Survey								Seeds to be needed (Quantity in KG.)	Remark
					May 2021 (In Per Hec.)				Oct 2021 (In Per Hec.)					
					Establis hed	Unestablis hed	Recruits	Regenerati on	Establishe d	Unestablis hed	Recruits	Regenera tion		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	Dhamnod	CNo. 521-314 Majidpura	100	9020	600	400	0	700	900	500	400	1025	24	increase in Regenreatio n
		Total	100	9020	600	400	0	700	900	500	400	1025	24	
17	Bagh	CNo. 02 Chikapoti	20	8240	400	900	0	625	700	1000	1600	950	29	increase in Regeneratio n
18	Bagh	CNo. 03 Chikapoti	20	6809	300	700	0	475	400	800	1300	600	33	
19	Bagh	CNo. 21 Rampura	20	13918	300	700	0	475	600	1100	1200	875	38	
		Total	60	28967	1000	2300	0	1575	1700	2900	4100	2425	100	
20	Kukshi	CNo. PF 595 Dharamray	229	13050	0	456	0	114	0	1450	13050	363	80	Increase in Regeneratio n
21	Kukshi	CNo. PF 599 Dharamray	109	7670	0	218	0	55	0	1030	7670	258	70	
22	Kukshi	CNo. PF 600 Dharamray	233	8870	0	360	0	90	0	1080	8870	270	81	
23	Kukshi	CNo. PF 606 Piplud	100	6740	0	200	0	50	0	560	6740	140	56	
24	Kukshi	CNo. PF 609 Piplud	83	9196	0	166	0	42	0	664	9196	166	52	
25	Kukshi	CNo. PF 626 Katarkheda	30	6942	0	30	0	8	0	358	6942	90	36	
		Total	784	52468	0	1430	0	359	0	5142	52468	1287	375	



Regeneration Survey														
S. N o.	Range	Place/ Compartment No.	Area (In Hec.)	Germination on CCT	Regeneration Survey								Seeds to be needed (Quantity in KG.)	Remark
					May 2021 (In Per Hec.)				Oct 2021 (In Per Hec.)					
					Established	Unestablished	Recruits	Regeneration	Established	Unestablished	Recruits	Regeneration		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
26	Tanda	CNo. 39 Tarsinga	108.93	201520	0	0	0	0	0	0	1850	0	61	Increase in New plant
27	Tanda	CNo. 72 Kharbadi	92.85	178272	0	0	0	0	0	0	1920	0	52	
28	Tanda	CNo.47 Chhatawani	95.48	204250	0	0	0	0	0	0	2150	0	58	
29	Tanda	CNo. 51 Gardi	63.49	97650	0	0	0	0	0	0	1550	0	72	
		<b>Total</b>	<b>360.75</b>	<b>681692</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7470</b>	<b>0</b>	<b>243</b>	
30	Sardarpur	CNo. 477 Vakyapada	20	11948	500	1200	0	800	800	1500	2500	1175	67	Increase in Regeneration
31	Sardarpur	CNo. 471 Kotdakala	20	14400	300	1300	0	625	700	2200	1500	1250	72	
32	Sardarpur	CNo. 439 Bherupada	40	39609	200	1400	0	550	600	2400	1500	1200	182	
33	Sardarpur	CNo.438 Ambapada	30	24440	500	1200	0	800	800	2200	1800	1350	117	
34	Sardarpur	CNo. 359 Handiya Kundiya	20	15955	200	900	0	425	600	1800	2000	1050	83	
35	Sardarpur	CNo. 360 Handiya Kundiya	20	16080	100	800	0	300	800	1600	2000	1200	86	
36	Sardarpur	CNo. 367 Jhikli	20	16750	300	600	0	450	600	1800	2200	1050	80	
37	Sardarpur	CNo. 370 Jhikli	20	14820	500	1300	0	825	900	2000	2400	1400	74	
38	Sardarpur	CNo. 116 Bawdikhodra	20	12884	100	2200	0	650	100	4000	2000	1100	72	
39	Sardarpur	CNo. 386 Ratakot	20	10513	300	200	0	350	600	400	1500	700	52	
		<b>Total</b>	<b>230</b>	<b>177399</b>	<b>3000</b>	<b>11100</b>	<b>0</b>	<b>5775</b>	<b>6500</b>	<b>19900</b>	<b>19400</b>	<b>11475</b>	<b>885</b>	
		<b>Grand Total</b>	<b>2500.8</b>	<b>1108823</b>	<b>7955</b>	<b>25205</b>	<b>0</b>	<b>14260</b>	<b>12455</b>	<b>51012</b>	<b>133060</b>	<b>25211</b>		



# Future Course...

- Such an extensive seed sowing activity was taken up after a long time.
- No such base line data available to corroborate.
- Being monitored closely and survival % is being recorded at a regular interval.
- Success of seed sowing shall promote for such an activity in the succeeding years.
- Very early to predict if this can be a low cost regeneration model.



# Future Course...

- Shall provide first hand info on seed germination.
- Methodology of collection and treatment given to the seeds shall be tested.
- Estimating the survival percentage.
- Study the environmental plasticity.
- Shall help collecting the data species wise.





THANK YOU

Lesser Frigican