

**DISTRICT WISE FRUIT PLANTATION PROGRAMME UNDER MGNREGS, 2012-15 (AREA IN Ha)**

Sl.No	District	2012-13					2013-14					2014-15					2012-13 to 2014-15										
		Mango	Litchi	Citrus	Cashew	Sapota	Guava	Total	Mango	Litchi	Citrus	Cashew	Sapota	Guava	Total	Mango	Litchi	Citrus	Cashew	Sapota	Guava	Total					
1	Balassore	150			150	10	310	150			100	10	270	200		410	500	0	0	450	30	10	990				
2	Bhadrak	100			100	10	210	150		200	10	360	150		360	400	0	0	500	30	0	930					
3	Bolangir	300		15			315	300	10			310	500	15	515	1100	0	40	0	0	0	1140					
4	Sonepur	200		15		15	230	200	20			230	400	15	430	800	0	50	0	0	40	890					
5	Cuttack	150			175	15	340	100		300	15	415	125		340	375	0	0	675	45	0	1095					
6	Jajpur	150			100		265	150	20			320	150	15	275	450	0	50	350	10	0	860					
7	Kendrapara	100			200		300	100		200		300	50		250	250	0	0	600	0	0	850					
8	J.S.Pur	100			200		300	100		200		300	50		250	250	0	0	600	0	0	850					
9	Dhenkanal	500			300	10	825	500		400	10	925	600	15	1025	1600	0	0	1100	30	45	2775					
10	Angul	500	25		300		825	600	15	400		1015	750	25	1175	1850	65	0	1100	0	0	3015					
11	Ganjam	250			300	15	565	250		350	15	615	250	15	865	750	0	0	1250	45	0	2045					
12	Gajapati	1000	25	25	50		1100	750	10	100		885	1000	25	1140	2750	60	75	240	0	0	3125					
13	Keonjhar	1000			300	15	1315	1000		300	15	1315	1250		1665	3250	0	0	1000	0	45	4295					
14	Koraput	1000	15	15	300		1330	1000	20	400		1435	1000	15	1430	3000	45	50	1100	0	0	4195					
15	Rayagada	1000	25	15	300	10	1350	1000	15	400	10	1450	1000	25	1450	3000	75	45	1100	0	30	4250					
16	NWPur	500		10	300		810	750	10	500		1260	1000	10	1410	2250	0	30	1200	0	0	3480					
17	Malkangiri	1000		15	300		1315	1000	15	500		1515	1120	15	1535	3120	0	45	1200	0	0	4365					
18	Kalahandi	575					575	500				500	700		700	1775	0	0	0	0	0	1775					
19	Nuapada	300		15			315	500	15			515	700	15	715	1500	0	45	0	0	0	1545					
20	Mayurbhanj	1000	15	50	300	20	1385	1000	50	400	20	1485	900	15	1485	2900	45	150	1200	0	60	4355					
21	Khurda	100			200	15	315	100		155	15	270	100		315	300	0	0	555	45	0	900					
22	Puri				200	10	210	50		400	15	465	100		210	150	0	0	700	35	0	885					
23	Nayagarh	875		10	300		1185	925	10	400		1335	775	10	1285	2575	0	30	1200	0	0	3805					
24	Phulbani	1000	10	10	300	15	1335	1000	10	300	15	1335	1250	10	1785	3250	30	30	1100	0	45	4455					
25	Boud	300			100	10	420	400		300	10	720	400	10	620	1100	0	0	600	30	30	1760					
26	Sambalpur	300	10	25	200		545	500	10	200	10	745	600	15	1050	1400	35	75	800	0	30	2340					
27	Jharsuguda	200			200		400	150		100		250	150		300	500	0	0	450	0	0	950					
28	Deogarh	300	25	25	100	10	460	300	25	100	10	460	400	25	560	1000	75	75	300	30	0	1480					
29	Baragarh	200		10	200		410	250	10	200		460	300	10	410	750	0	30	500	0	0	1280					
30	Sundargarh	500	25	15	200		740	700	25	300		1040	650	25	1040	1850	75	45	850	0	0	2820					
	<b>TOTAL</b>	<b>13650</b>	<b>175</b>	<b>285</b>	<b>5675</b>	<b>105</b>	<b>20000</b>	<b>14475</b>	<b>150</b>	<b>295</b>	<b>7355</b>	<b>110</b>	<b>22500</b>	<b>16620</b>	<b>180</b>	<b>285</b>	<b>7690</b>	<b>115</b>	<b>110</b>	<b>25000</b>	<b>44745</b>	<b>505</b>	<b>865</b>	<b>20720</b>	<b>330</b>	<b>335</b>	<b>67500</b>

**THREE-YEAR PROSPECTIVE PLAN  
FOR  
FRUIT TREE PLANTATION  
IN ORISSA  
UNDER MGNREGS  
(2012-13 TO 2014-15)**



**DIRECTOR OF HORTICULTURE.  
ORISSA, BHUBANESWAR**

# PROJECT SUMMERY

1. Name of the Project: THREE-YEAR PROSPECTIVE PLAN (2012-13 TO 2014-15) FOR FRUIT TREE PLANTATION IN ORISSA UNDER MGNREGS

2. Name of the district: 30 Districts

3. Year wise plantation programme: Area in ha

Crop	2012-13	2013-14	2014-15	Total
Mango	13650	14475	16620	39975
Litchi	175	150	180	500
Citrus	285	295	285	865
Cashew	5675	7355	7690	17995
Sapota	105	110	115	330
Guava	110	115	110	335
TOTAL	20000	22500	25000	67500

4. Project cost and MD generation:

(Cost in Lakh Rs. and mandays in Lakh nos)

Year	Labour	Material	Administrative	Total	Mandays
2012-13	6093.53	2717.02	264.32	9074.86	48.75
2013-14	10766.64	4651.42	462.54	15880.60	86.13
2014-15	14861.76	6530.83	641.78	22034.37	118.89
2015-16 (Maint)	7981.55	3422.43	342.12	11746.10	63.85
2016-17 (Maint)	3516.91	1666.28	155.50	5338.69	28.14
Total	43220.39	18987.98	1866.25	64074.61	345.76

5. Implementing agency: Respective district authorities of the state

## **PROSPECTIVE PLAN (2012-13 TO 2014-15)**

### **FOR FRUIT TREE PLANTATION**

### **IN ORISSA UNDER MGNREGS**

India is the 2<sup>nd</sup> largest producer of the fruits in the world. Though this distinction has been achieved, yet the per capita consumption of the fruits is still very low due to our huge population. At national level horticulture sector has emerged as a potential player in the Indian economy contributing 30% to GDP in agriculture from more 8.5% area under horticultural crops as well as a means of diversification in overall development of agriculture.

Horticulture invariably improved the economic status of our farmers. The earlier seasonal availability of fruits and vegetables has now extended to all the year round, increasing the per capital consumption of fruits and vegetables. It has also played a significant role in women empowerment, providing employment opportunities through mushroom cultivation, floriculture, processing, nursery raising, vegetable seed production etc. The national goal of achieving 4% growth in agriculture can be achieved through the major contribution in growth from horticulture.

Unfortunately the productivity of the fruit orchard is very low as compared to other fruit growing countries of the world. It is a major cause of concern to our scientists, extension workers & orchardists. Many reasons may be attributed to the low productivity & our scientists have to develop high yielding varieties/ hybrid resistance to biotic & abiotic stress & better agro techniques for realising the maximum potential of the fruit cultivation in India.



**Potential for Horticulture:** The agro-climatic diversity in the state with its high rain fall distributed over a four-month monsoon and a reasonably moderate winter allows for growing a variety of horticultural crops. The agro-climatic conditions are immensely suitable for perennial fruit crops like mango, litchi, guava, oranges and limes; annual fruit crops like banana, pineapple and papaya; spices like ginger, turmeric and chilly, a variety of root and tubers and a whole range of vegetables. The low-temperature in hilly areas at higher altitude offer ideal conditions for growing off-season vegetables. Of late floriculture is also showing excellent prospects. The State thus enjoys a natural comparative advantage for horticulture with possibilities for growing a diversified basket of fruits, vegetables, spices, tubers and flowers; whose potential has not been fully exploited.

Mango, guava, citrus, sapota, banana, litchi and papaya are the major fruits grown in the state over an area of 3.02 lakh ha. Mango, guava, banana, papaya, k.lime are grown all over the state where as orange, sapota and litchi in certain pockets. The area, production and productivity of various fruit crops for last four years are given below.



Year	Area (ha.)	Fruit bearing area (ha)	Production (MT.)	Productivity (MT.)
2006-07	255601	212772	1424859	6.69
2007-08	265268	222196	1275115	5.74
2008-09	289614	229369	1661350	7.24
2009-10	302063	243686	1845156	7.57

**Land Availability:** The state has a total cultivable area of 61.80 lakh hectares. Out of this, 15.11 lakh hectares are low lands, 17.55 lakh hectares are medium lands and 29.14 lakh hectares are high lands. The district wise break up is given overleaf.

Sl. No.	Name of the District	Cultivated area (Area in '000 ha.)			
		High	Medium	Low	Total
1	Balasore	39	104	107	250
2	Bhadrak	13	63	100	176
3	Bolangir	190	70	86	346
4	Sonepur	48	41	39	128
5	Cuttack	47	75	66	188
6	Jagatsinghpur	21	37	46	104
7	Jajpur	52	48	45	145
8	Kendrapara	31	72	49	152
9	Dhenkanal	92	54	40	186
10	Anugul	128	55	33	216
11	Ganjam	190	113	103	406
12	Gajapati	50	14	12	76
13	Kalahandi	228	82	68	378
14	Nuapada	133	28	28	189
15	Keonjhar	159	100	39	298
16	Koraput	187	79	38	304
17	Malkanagiri	87	31	24	142
18	Nawarangpur	118	39	29	186
19	Rayagada	129	42	22	193
20	Mayurbhanj	186	125	126	437
21	Kandhamal	96	21	11	128
22	Boudh	55	21	13	89
23	Puri	22	58	109	189
24	Khurda	40	42	47	129
25	Nayagarh	45	49	40	134
26	Sambalpur	97	61	36	194
27	Bargarh	183	90	76	349
28	Deogarh	35	21	11	67
29	Jharsuguda	50	25	13	88
30	Sundargarh	163	95	55	313
Total		2914	1755	1511	6180

Source: Orissa Agriculture Statistics 2008-09: pp 9

Out of the high lands, 8.0 lakh ha. are being used for rice cultivation in most traditional manner which is highly un-remunerative and the crop is always at risk. These high lands are most suitable for growing horticultural crops and the State Government has set an ambitious programme of bringing 7 lakh hectares out of these *high* lands including some other marginal *medium* paddy lands under horticultural crops with a view to enhance the incomes of the agricultural households.

## Modalities

- Constitution of **District level Plantation Core Committee** consisting of the following members for framing policies for the programme.
  - (i) Collector - Chairperson.
  - (ii) P.D.,DRDA - Member Convenor.
  - (iii) Addl.P.D.(Admn.) - Member.
  - (iv) Leading farmer of the district- Member.
  - (v) A.G.M., NABARD - Member
  - (vi) S.C.O. - Member-cum-Technical Advisor.
  - (vii) D.D.H.- Member-cum-Technical Advisor.
  - (viii) PA, ITDA- Member
  - (viii) B.D.O.s of Blocks - Members
- Regular meeting of Core Committee
- Practical field training to the implementing agencies / Block Sanjojaks / Gram Sanjojaks / Farmers will be imparted inside Govt. farms / orchard of leading farmer.
- The plantation implementing agencies like Block Development Officer, Horticulture, Soil Conservation, ITDA, OTELP etc of the respective block will make execution of the programme.
- Engagement of unemployed youth trained by any recognized institution in horticulture discipline in the state may be engaged to look after 50 Ha of land per person as Gram Sanjojaks to whom wages will be paid at semi-skilled wage rate out of administrative charges (3%) of the MGNREGS funds. They will inter-alia take care to maintain Muster Roll in the worksite. Further Block Sanjojaks may be engaged to look after the entire plantations of the block.
- The beneficiaries in whose land plantation will be taken up will be engaged in his own field along with other job card holders if required.
- The beneficiaries will be involved fully and he will be given responsibility to safe guard the plantation in his own field.
- Block wise as well as implementing agency wise division of plantation programmes should be carried out well in advance.
- Plantations under MGNREGS will be taken up in Govt and private land. Preference may be given to the land holders under Forest Right Act.
- All the payments except the cost of planting materials will be paid to the beneficiaries in shape of Demand draft / Cheque / on-line payment.
- The beneficiaries should be encouraged to take up intercrop during gestation period.

- For distribution of inputs, a working group will be formed by the District magistrate

**Area coverage: Area in ha**

Crop	2012-13	2013-14	2014-15	Total
Mango	13650	14475	16620	39975
Litchi	175	150	180	500
Citrus	285	295	285	865
Cashew	5675	7355	7690	17995
Sapota	105	110	115	330
Guava	110	115	110	335
<b>TOTAL</b>	<b>20000</b>	<b>22500</b>	<b>25000</b>	<b>67500</b>



**Requirement of planting materials: (Figure in Nos)**

Crop	2012-13	2013-14	2014-15	Total
Mango	1501500	1592250	1828200	4397250
Litchi	38500	33000	39600	110000
Citrus	82365	85255	82365	249985
Cashew	1248500	1618100	1691800	3958900
Sapota	11550	12100	12650	36300
Guava	33330	34845	33330	101505
<b>TOTAL</b>	<b>2915745</b>	<b>3375550</b>	<b>3687945</b>	<b>8853940</b>



The required planting materials are available in the departmental farms and registered private nurseries inside the state. However if required the same may be procured by tendering process.

### Requirement of funds and mandays generated:

(Cost in Lakh Rs. and mandays in Lakh nos)

Year	Labour	Material	Administrative	Total	Mandays to be generated
2012-13	6093.53	2717.02	264.32	9074.86	48.75
2013-14	10766.64	4651.42	462.54	15880.60	86.13
2014-15	14861.76	6530.83	641.78	22034.37	118.89
2015-16	7981.55	3422.43	342.12	11746.10	63.85
2016-17	3516.91	1666.28	155.50	5338.69	28.14
Total	43220.39	18987.98	1866.25	64074.61	345.76



#### Project Out Come:

1. 345.76 lakh mandays will be generated.
2. Increased production of fruits.
3. Increased green coverage over 67500 ha.
4. Income of the farmers will be increased after 3<sup>rd</sup> year from the main crop and from the intercrop during gestation period.

## Calendar of operations

Month	Work programme
January' 2012	District level coordination committee to finalize the plantation programme for 2012-13.
February'2012	Communication of target of plantation to the implementing agencies. Advance indent for quality planting materials to be placed with Director of Horticulture.
March'2012	Engagement of additional staff at field / block level. Selection of beneficiaries Collection of necessary documents.
April & May' 2012	Lay out, Pitting & pit filling. Final indent for quality planting materials.
June'2012	Supply of quality planting materials
July / August'2012	Lifting of quality planting materials Planting of saplings, staking and watering (if necessary)