

## National Oilseeds & Vegetable Oils Development Board, Gurgaon

Ongoing R&D programs on "Integrated Development of Tree Borne Oilseeds"

### A. List of R&D Institutes & the project title and duration of the project.

S.No.	State	Name of Institute/ University	Project title	Completed Year
1	2	3	4	5
1	Andhra Pradesh	CRIDA, Hyderabad	National Network on Integrated Development of Jatropha and Karanja	7 year (2004-05)
		ANGRAU, Hyderabad	Collection, characterization & evaluation of plant type for mass multiplication & Standardization of agro-techniques in Jatropha & Simarouba	3 Year (2008-09)
		JNTU(OTRI), Anantpur	Standardization of Quality Parameters of Oil and Bio-diesel of Jatropha and Karanja for commercial use	3 Year (2008-09)
2	Arunachal Pradesh	CAU, Pasighat (Arunachal Pradesh)	National Network on Integrated Development of Jatropha	6 Year (2005-06) (2005-06)
3	A&N. Island	CARI, Port Blair	Germplasm collection, evaluation and identification of high yielding genotypes of Jatropha & Karanja and their multiplication in bay Islands	3 Year (2008-09)
4	Assam	AAU, Jorhat, Assam	National Network on Integrated Development of Jatropha	6 Year (2005-06)
5	Bihar	RAU, Samastipur	National Network on Integrated Development of Jatropha & Karanja	6 Year (2005-06)
6	Delhi	NBPGR, New Delhi	DNA fingerprinting and molecular characterization of Jatropha germplasm collected from diverse agroclimatic zones of India	7 year (2004-05)

<b>S.No.</b>	<b>State</b>	<b>Name of Institute/ University</b>	<b>Project title</b>	<b>Completed Year</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
		IIT, New Delhi	Design & Development of Post Harvest Equipments for Jatropha, Karanja, Simarouba under National Network on integrated Development of Jatropha & Karanja	7 year (2004-05)
		University of Delhi	Development of Tissue culture protocol for mass propagation using elite Jatropha line & their biochemical evaluation	3 Year (2008-09)
		IIT, Delhi	Processing of Oilseed cakes of Jatropha, Karanja, Mahua and Neem for value addition for biofertilizers and biopesticides	3 Year (2008-09)
<b>7</b>	<b>Chhattisgarh</b>	IGAU, Raipur	National Network on Integrated Development of Jatropha & Karanja	7 year (2004-05)
		IGAU, Raipur (Mahua)	Collection, evaluation & genetic improvement of land races of mahua and development of agri-horti-silviculture models for wastelands in Chhattisgarh	1 Year (2010-11)
<b>8</b>	<b>Gujarat</b>	NAU, Navsari (Gujarat)	National Network on Integrated Development of Jatropha	6 Year (2005-06)
		SDAU, S.K. Nagar	National Network on Integrated Development of Jatropha	7 year (2004-05)
		AAU, Anand	Enhancement of Yield and other economic traits of Jatropha through breeding	3 Year (2008-09)
		SDAU, S.K.Nagar (Tissue Culture)	Propagation of elite tree bearing oil species for arid and semi arid regions of Gujarat through Plant Tissue Culture	3 Year (2008-09)
		NAU, Navsari	Germplasm collection,	3 Year

S.No.	State	Name of Institute/ University	Project title	Completed Year
1	2	3	4	5
		(Kar.)	evaluation, characterization and selection of harsh site tolerant clones of Karanja. Development of improved nursery and plantation techniques	(2008-09)
<b>9</b>	<b>Haryana</b>	NOVOD Board		
		CCS, HAU, Hisar-Dr.Hooda	National Network on Integrated Development of Jatropha	3 Year (2008-09)
		RRS, CCS, HAU, Karnal (T. culture) – Dr.Mehta	National Network on Integrated Development of Jatropha (Tissue culture)	7 year (2004-05)
		CCS HAU, RRS, Bawal	National Network on Integrated Development of Jatropha and Karanja	7 year (2004-05)
		CRAPTC, HAU, Hisar (frost tolerance) – Dr.Dhawan	Screening Jatropha germplasm under experimental and field conditions for survival and high oil yield in frost prone areas and developing technology for alleviation of frost effects	3 Year (2008-09)
		CCS HAU, Hissar-Jatropha & value chain – Dr.Dhillon	Germplasm collection , evaluation and development of High Yielding, dwarf varieties of Jatropha resistance to biotic and abiotic stress & establishment of value chain in different TBOs	3 Year (2008-09)
		CCSHAU, Hissar – Karanja – Dr.Benewal	Germplasm collection, evaluation and genetic improvement in Karanja tolerance to biotic and abiotic stresses including salt tolerance	3 Year (2008-09)
<b>10</b>	<b>Himachal Pradesh</b>	CSKHPKVV, Palampur(Jat.)	National Network on Integrated Development of	7 year (2004-05)

S.No.	State	Name of Institute/ University	Project title	Completed Year
1	2	3	4	5
			Jatropha	
		CSKHPKV, Palampur (Wild apricot)	National Network on Integrated Development of Wild apricot	6 Year (2005-06)
		Dr. Y.S. Parmar, University of Hort. & Forestry, Solan.	Development of post harvest equipments and refinement of technology for extraction and value addition of Wild apricot oil for commercial adoption	3 Year (2008-09)
11	Jharkhand	BAU, Ranchi (Jharkhand)	National Network on Integrated Development of Jatropha	6 Year (2005-06)
12	J&K	SKUA&T, Sri Nagar (Wild apricot)	National Network on Integrated Development of Wild apricot	7 year (2004-05)
		SKUA&T, Jammu	National Network on Integrated Development of Jatropha	7 year (2004-05)
13	Karnataka	UAS, Dharwad	National Network on Integrated Development of Karanja	7 year (2004-05)
		CFTRI, Mysore	Detoxification of seed meal of Jatropha, Karanja and Simorouba under National Network on integrated Development of Jatropha & Karanja	7 year (2004-05)
		UAS, GKVK, Bangalore	Germplasm collection, evaluation and development of varieties and hybrids of Jatropha	3 Year (2008-09)
		UAS, Dharwad (Etiology Jatropha)	Studies on etiology, epidemiology and management of diseases on Jatropha curcas	3 Year (2008-09)
14	Kerala	KAU, Thrissur	Germplasm collection, evaluation and standardization of nursery techniques and	3 Year (2008-09)

S.No.	State	Name of Institute/ University	Project title	Completed Year
1	2	3	4	5
			development of plantation of Jatropha & Karanja	
		NBPGRRS, Thrissur	Collection, clone multiplication, conservation and biochemical profiling of Kokum ( <i>Garcinia indica</i> )	3 Year (2008-09)
15	Madhya Pradesh	JNKVV, Jabalpur (Jatropha)	National Network on Integrated Development of Jatropha	7 year (2004-05)
		JNKVV, Jabalpur (Karanja)	National Network on Integrated Development of Karanja	6 Year (2005-06)
		TFRI, Jabalpur	National Network on Integrated Development of Jatropha & Karanja	7 year (2004-05)
		SFRI, Jabalpur	National Network on Integrated Development of Jatropha	7 year (2004-05)
16	Maharashtra	MPKV, Rahuri	National Network on Integrated Development of Jatropha & Karanja	7 year (2004-05)
		PDKV, Akola	National Network on Integrated Development of Jatropha & Karanja	7 year (2004-05)
		Dr BSKKV, Dapoli	Germplasm collection, evaluation and mass multiplication on TBOs (Jatropha, Karanja & Kokum) of Konkan region of Maharashtra and Goa	3 Year (2008-09)
		Dr PDKV, Akola (Mahua & Simarouba)	Germplasm Collection of Mahua and Simarouba in Vidarbha region and Standardization of vegetative propagation techniques & establishment of demonstration plot of Simarouba	3 Year (2008-09)
17	Manipur	ICAR, RCNEH, Manipur	National Network on Integrated Development of Jatropha	6 Year (2005-06)

S.No.	State	Name of Institute/ University	Project title	Completed Year
1	2	3	4	5
18	Meghalaya	ICAR, RCNEH, Umian Meghalaya	National Network on Integrated Development of Jatropha	6 Year (2005-06)
19	Nagaland	ICAR, RCNEH, Nagaland	National Network on Integrated Development of Jatropha	6 Year (2005-06)
20	Orissa	RRL, Bhubaneswar (Tissue culture)	National Network on Integrated Development of Jatropha (Tissue culture)	7 year (2004-05)
		RRL, Bhubaneswar (Jatropha)	National Network on Integrated Development of Jatropha	7 year (2004-05)
		OAUT, Bhubaneswar	Germplasm collection, evaluation and integrated tree improvement of Jatropha & Karanja for enhancing seed yield and oil content	3 Year (2008-09)
		IMMT, Bhubaneswar (Karanja, tissue culture)	Standardization of mass clonal propagation protocols of elite lines of <i>Pongamia pinnata</i> through in-vitro and in vivo techniques	1 Year (2010-11)
21	Punjab	PAU, Ludhiana	National Network on Integrated Development of Jatropha	7 year (2004-05)
		PAU, Ludhiana(TC)	Development of cost effective micro propagation protocol for mass production of Jatropha curcas	3 Year (2008-09)
22	Rajasthan	MPUA&T, Udaipur (Tissue culture)	National Network on Integrated Development of Jatropha (Tissue culture)	7 year (2004-05)
		MPUA&T, Udaipur (Jatropha)	National Network on Integrated Development of Jatropha	7 year (2004-05)
		MPUA&T, Udaipur (Karanja)	Germplasm collection, evaluation and development of Agro-techniques and Agro-forestry models of	3 Year (2008-09)

<b>S.No.</b>	<b>State</b>	<b>Name of Institute/ University</b>	<b>Project title</b>	<b>Completed Year</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
			Karanja in Rajasthan	
		MPUA&T, Udaipur (Variety/hyb./ genetic transformation of Jatropha)	Development of varieties and hybrids using conventional and contemporary methods including genetic transformation in Jatropha	2 Year (2009-10)
<b>23</b>	<b>Tamil Nadu</b>	TNAU, Mettupalayam	National Network on Integrated Development of Jatropha & Karanja	7 year (2004-05)
		TNAU, Coimbatore, Tamil Nadu	Standardization of seed enhancement and storage technique, seed certification standards for Jatropha and pungamia and standardization of seed handling techniques in Jatropha	3 Year (2008-09)
		FCRI, Mettupallayam	Collection, evaluation and genetic improvement of Mahua for high yield, oil content as well as superior oil quality	1 Year (2010-11)
<b>24</b>	<b>Tripura</b>	ICAR, RCNEH, Tripura	National Network on Integrated Development of Jatropha	6 Year (2005-06)
<b>25</b>	<b>U.P.</b>	CSFER, Allahabad	National Network on Integrated Development of Jatropha	7 year (2004-05)
		NRCAF, Jhansi	National Network on Integrated Development of Jatropha & Karanja	7 year (2004-05)
		NDUA&T, Faizabad	National Network on Integrated Development of Jatropha	7 year (2004-05)
		CSAUA&T, Kanpur	National Network on Integrated Development of Jatropha	7 year (2004-05)
		AAI, Allahabad	Characterization of genetic variability & yield	3 Year (2008-09)

S.No.	State	Name of Institute/ University	Project title	Completed Year
1	2	3	4	5
			improvement of jatropha through intra-population, improvement & development of high yielding disease free commercial cultivar suited to low input farming condition of Allahabad & Eastern U.P.	
		SVBPUAT, Meerut	Collection, Multiplication & Genetic Improvement of Jatropha and its distribution and popularization among the small and marginal farmers of U.P.	3 Year (2008-09)
		BHU, Varanasi	Insect, Pest & Diseases of Jatropha & the potential for their management in eastern Uttar Pradesh	3 Year (2008-09)
		SVBPUA&T, Meerut (Neem, Karanja & Mahua)	Devevelopment of value added products from leaves & oilcakes of Jatropha, Karanja, Neem & Mahua using as a substrate for mass multiplication of Trichoderma Spp.	3 Year (2008-09)
		NDUA&T, Faizabad	Germplasm collection, evaluation and development of varieties of Mahua ( <i>Bassia latifolia</i> ) to increase the oil content yield and oil quality	1 Year (2010-11)
26	Uttrakhand	GBPUA&T, Pantnagar (W. apricot & Cheura)	National Network on Integrated Development of Wild apricot & Cheura	6 Year (2005-06)
		GBPUA&T, Pantnagar (Jatropha)	National Network on Integrated Development of Jatropha	7 year (2004-05)
		Kumaun University,	National Network on Integrated Development of	7 year (2004-05)

S.No.	State	Name of Institute/ University	Project title	Completed Year
1	2	3	4	5
		Nainital	Wild apricot & Cheura	
		FRI, Dehradun	Germplasm collection, evaluation and planting of <i>Jatropha</i> and <i>Karanja</i> for improved productivity and higher oil content	3 Year (2008-09)
		ICFRE, Dehradun	Development of a Database on Tree-Borne Oilseeds in India	2 Year (2009-10)
		GBPUA&T, Pantnagar	Development of synthetic varieties in <i>Jatropha curcas</i>	1 Year (2010-11)
27	West Bengal	BCKV, Nadia	National Network on Integrated Development of <i>Jatropha</i>	6 Year (2005-06)
		UBKV, Cooch Behar	Collection, characterization & selection of superior plant type for mass multiplication & development of HYV/Hybrid Variety of <i>Jatropha curcas</i> for better yield & oil content for North Bengal and Assam	3 Year (2008-09)
		IIT, Kharagpur	Economic analysis of <i>Jatropha</i> cultivation, employment generation, supply-chain network of <i>Jatropha</i> seeds, oil., oilcake and other products and to study the problem related to production, marketing and credit availability in India	3 Year (2008-09)
		IIT, Kharagpur (Biotech) (Value addition, Neem, Jat.)	Biotechnology-based value-addition of leaves, oilseeds, and cakes of Neem & <i>Jatropha</i>	3 Year (2008-09)

## B. Financial outlay under ongoing R&D Network programme for the year 2011-12

S.No	SAUs/Instt	Components								Total (Rs in lakh)
		Salary		Input cost		Chem /Consumable	POL/travel	Institutional charges10% of 3 to 8	Contingency 10% of 3 to 8	
		SRF/Proj	Skill Helper	jatropha	karanja					
		Asstt								
1	2	3	4	5	6	7	8	9	10	11
<b>1</b>	<b>A. P.</b>									
i	CRIDA, Hyd.	5.616	1.44	0.40	0.20	0.00	0.40	0.806	0.806	<b>9.668</b>
ii	ANGRAU, Hyd	2.808	0.72	0.40	0.00	0.00	0.40	0.433	0.433	<b>5.194</b>
iii	OTRI, Anantpur	2.376	0.72	0.00	0.00	0.36	0.40	0.386	0.386	<b>4.628</b>
<b>2</b>	<b>Ar.Pradesh</b>									
iv	CAU, Pasighat	2.376	0.72	0.40	0.00	0.00	0.40	0.390	0.390	<b>4.676</b>
<b>3</b>	<b>A&amp;N Island</b>									
v	CARI, Port Blair	4.752	1.44	0.40	0.20	0.00	0.40	0.719	0.719	<b>8.630</b>
<b>4</b>	<b>Assam</b>									
vi	AAU, Jorhat	2.376	0.72	0.40	0.00	0.00	0.40	0.390	0.390	<b>4.676</b>
<b>5</b>	<b>Bihar</b>									
vii	RAU, Samastipur	4.752	1.44	0.40	0.20	0.00	0.40	0.719	0.719	<b>8.630</b>
<b>6</b>	<b>Delhi</b>									
viii	NBPGR, New Delhi	5.616	1.44	0.00	0.00	1.48	0.40	0.894	0.894	<b>10.724</b>
ix	IIT, New Delhi	4.32	0.94	0.00	0.00	0.90	0.40	0.656	0.656	<b>7.872</b>
x	University of Delhi	2.808	0.72	0.00	0.00	0.36	0.40	0.429	0.429	<b>5.146</b>
xi	IIT, Delhi	2.40	0.94	0.00	0.00	0.36	0.40	0.410	0.410	<b>4.920</b>
<b>7</b>	<b>Chhattisgarh</b>									
xii	IGAU, Raipur-jat & kar	5.184	1.44	0.40	0.20	0.00	0.40	0.762	0.762	<b>9.148</b>
xiii	IGAU, Raipur-mahua	2.304	0.72	0.27	0.00	0.00	0.40	0.369	0.369	<b>4.432</b>
<b>8</b>	<b>Gujarat</b>									
xiv	NAU, Navsari-Jat	2.376	0.72	0.40	0.00	0.00	0.40	0.390	0.390	<b>4.676</b>
xv	SDAU, S.K. Nagar	2.376	0.72	0.40	0.00	0.00	0.40	0.390	0.390	<b>4.676</b>
xvi	AAU, Anand	2.376	0.72	0.40	0.00	0.00	0.40	0.390	0.390	<b>4.676</b>

xvii	SDAU, S.K.Nagar (Tissue Culture)	2.376	0.72	0.00	0.00	0.36	0.40	0.386	0.386	<b>4.628</b>
xviii	NAU, Navsari (Kar.)	2.376	0.72	0.00	0.20	0.00	0.40	0.370	0.370	<b>4.436</b>
<b>9</b>	<b>Haryana</b>									
xix	NOVOD Board	4.992	1.44	0	0	14.60	0	0.000	0.000	<b>21.032</b>
xx	CCS, HAU, Hisar- Dr.Hooda	2.376	0.72	0.40	0.00	0.00	0.40	0.390	0.390	<b>4.676</b>
xxi	RRS, CCS, HAU, Karnal (T. culture) – Dr.Mehta	2.376	0.72	0.00	0.00	0.36	0.40	0.386	0.386	<b>4.628</b>
xxii	CCS, HAU, RRS, Bawal	4.752	1.44	0.40	0.20	0.00	0.40	0.719	0.719	<b>8.630</b>
xxiii	CRAPTC, HAU, Hisar (frost tolerance) – Dr.Dhawan	2.376	0.72	0.40	0.00	0.00	0.40	0.390	0.390	<b>4.676</b>
xxiv	CCS HAU, Hissar- value chain jat & TBOs – Dr.Dhillon	4.752	1.44	0.60	0.00	0.00	0.40	0.719	0.719	<b>8.630</b>
xxv	CCSHAU, Hissar – Karanja – Dr.Benewal	2.376	0.72	0.00	0.20	0.00	0.40	0.370	0.370	<b>4.436</b>
<b>10</b>	<b>H.P.</b>									<b>0.000</b>
xxvi	CSKHPKV, Palampur(Jat.)	2.376	0.72	0.40	0.00	0.00	0.40	0.390	0.390	<b>4.676</b>
xxvii	CSKHPKV, Palampur (Wild apricot)	2.376	0.72	0.40	0.00	0.00	0.40	0.390	0.390	<b>4.676</b>
xxviii	Dr.Y.S.PUH&F,Solan- Value addition Jat & Kar	2.376	0.72	0.00	0.00	0.36	0.40	0.386	0.386	<b>4.628</b>
<b>11</b>	<b>Jharkhand</b>									<b>0.000</b>
xxix	BAU, Ranchi (Jharkhand)	2.592	0.72	0.40	0.00	0.00	0.40	0.411	0.411	<b>4.934</b>
<b>12</b>	<b>J&amp;K</b>									<b>0.000</b>
xxx	SKUA&T, Sri Nagar (Wild apricot)	2.592	0.72	0.40	0.00	0	0.40	0.411	0.411	<b>4.934</b>
xxxi	SKUA&T, Jammu	2.592	0.72	0.40	0.00	0.00	0.40	0.411	0.411	<b>4.934</b>

<b>13</b>	<b>Karnataka</b>									<b>0.000</b>
xxxii	UAS, Dharwad(kar)	2.592	0.72	0.00	0.20	0.00	0.40	0.391	0.391	<b>4.694</b>
xxxiii	CFTRI, Mysore	2.592	0.72	0.00	0.00	1.18	0.40	0.489	0.489	<b>5.870</b>
xxxiv	UAS, GKVK, Bangalore	2.808	0.72	0.40	0.00	0.00	0.40	0.433	0.433	<b>5.194</b>
xxxv	UAS, Dharwad (Jat disease)	2.592	0.72	0.40	0.00	0.00	0.40	0.411	0.411	<b>4.934</b>
<b>14</b>	<b>Kerala</b>									<b>0.000</b>
xxxvi	KAU, Thrissur	2.376	0.72	0.40	0.00	0.00	0.40	0.390	0.390	<b>4.676</b>
xxxvii	NBPGRRS, Thrissur (kok bio chem profil)	2.376	0.72	0.00	0.00	0.36	0.40	0.386	0.386	<b>4.628</b>
<b>15</b>	<b>M.P.</b>									<b>0.000</b>
xxxviii	JNKVV, Jabalpur (Jatropha)	2.592	0.72	0.40	0.00	0.00	0.40	0.411	0.411	<b>4.934</b>
xxxix	JNKVV, Jabalpur (Karanja)	2.592	0.72	0.00	0.20	0.00	0.40	0.391	0.391	<b>4.694</b>
xli	TFRI, Jabalpur	5.184	1.44	0.40	0.20	0.00	0.40	0.762	0.762	<b>9.148</b>
xli	SFRI, Jabalpur	2.592	0.72	0.40	0.00	0.00	0.40	0.411	0.411	<b>4.934</b>
<b>16</b>	<b>Maharashtra</b>									<b>0.000</b>
xlii	MPKV, Rahuri	4.752	1.44	0.40	0.20	0.00	0.40	0.719	0.719	<b>8.630</b>
xliii	PDKV, Akola	4.752	1.44	0.40	0.20	0.00	0.40	0.719	0.719	<b>8.630</b>
xliv	Dr BSKKV, Dapoli	4.752	1.44	0.40	0.00	0.00	0.40	0.699	0.699	<b>8.390</b>
xlvi	Dr PDKV, Akola (Mahua & Simarouba)	4.752	1.44	0.09	0.10	0.00	0.40	0.678	0.678	<b>8.138</b>
<b>17</b>	<b>Manipur</b>									<b>0.000</b>
xlvi	ICAR, RCNEH, Manipur	2.376	0.72	0.40	0.00	0.00	0.40	0.390	0.390	<b>4.676</b>
<b>18</b>	<b>Meghalaya</b>									<b>0.000</b>
xlvi	ICAR, RCNEH, Umian Meghalaya	2.376	0.72	0.40	0.00	0.00	0.40	0.390	0.390	<b>4.676</b>
<b>19</b>	<b>Nagaland</b>									<b>0.000</b>
xlvi	ICAR, RCNEH, Nagaland	2.376	0.72	0.40	0.00	0.00	0.40	0.390	0.390	<b>4.676</b>

<b>20</b>	<b>Orissa</b>									<b>0.000</b>
xlix	RRL, Bhub (Jat-Tissue culture)	2.592	0.72	0.00	0.00	0.36	0	0.367	0.367	<b>4.406</b>
L	RRL, Bhub (Kar-Tissue culture)	2.304	0.72	0.00	0.00	0.75	0.40	0.417	0.417	<b>5.008</b>
li	RRL, Bhubaneswar (Jatropha)	2.592	0.72	0.40	0.00	0.00	0.40	0.411	0.411	<b>4.934</b>
lii	OAUT, Bhubaneshwar	2.592	0.72	0.40	0.00	0.00	0.40	0.411	0.411	<b>4.934</b>
<b>21</b>	<b>Punjab</b>									<b>0.000</b>
liii	PAU, Ludhiana	2.592	0.72	0.40	0.00	0.00	0.40	0.411	0.411	<b>4.934</b>
liv	PAU, Ludhiana(TC)	2.592	0.72	0.00	0.00	0.36	0.40	0.407	0.407	<b>4.886</b>
<b>22</b>	<b>Rajsthan</b>									<b>0.000</b>
lv	RAU, Bikaner	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	<b>0.000</b>
lvi	MPUA&T, Udaipur (Tissue culture)	2.376	0.72	0.00	0.00	0.36	0.40	0.386	0.386	<b>4.628</b>
lvii	MPUA&T, Udaipur (Jatropha)	2.376	0.72	0.40	0.00	0.00	0.40	0.390	0.390	<b>4.676</b>
lviii	MPUA&T, Udaipur (Karanja)	2.376	0.72	0.00	0.20	0.00	0.40	0.370	0.370	<b>4.436</b>
lix	MPUA&T, Udaipur (Variety/hyb./ genetic transformation of Jatropha)	2.376	0.72	0.40	0.00	0.00	0.40	0.390	0.390	<b>4.676</b>
<b>23</b>	<b>T.N.</b>									<b>0.000</b>
lx	TNAU, Mettupalayam	4.752	1.44	0.40	0.20	0.00	0.40	0.719	0.719	<b>8.630</b>
lxi	TNAU, Coimbatore, Tamil Nadu	4.752	1.44	0.40	0.00	0.00	0.40	0.699	0.699	<b>8.390</b>
lxii	FCRI, Mettupalayam-mahua	2.112	0.72	0.27	0.00	0.00	0.40	0.350	0.350	<b>4.202</b>
<b>24</b>	<b>Tripura</b>									<b>0.000</b>
lxiii	ICAR, RCNEH, Tripura	2.376	0.72	0.40	0.00	0.00	0.40	0.390	0.390	<b>4.676</b>

<b>25</b>	<b>U.P.</b>									<b>0.000</b>
lxiv	CSFER, Allahabad	2.592	0.72	0.40	0.00	0.00	0.40	0.411	0.411	<b>4.934</b>
lxv	NRCFAF, Jhansi	4.752	1.44	0.40	0.20	0.00	0.40	0.719	0.719	<b>8.630</b>
lxvi	NDUAT, Fzd-mahua	2.112	0.72	0.27	0.00	0.00	0.40	0.350	0.350	<b>4.202</b>
lxvii	NDUA&T, Fzd-Jat	2.376	0.72	0.40	0.00	0.00	0.40	0.390	0.390	<b>4.676</b>
lxviii	CSAUA&T, Kanpur	2.592	0.72	0.40	0.00	0.00	0.40	0.411	0.411	<b>4.934</b>
lxix	AAI, Allahabad	2.592	0.72	0.40	0.00	0.00	0.40	0.411	0.411	<b>4.934</b>
lxx	SVBPUAT, Meerut	2.592	0.72	0.40	0.00	0.00	0.40	0.411	0.411	<b>4.934</b>
lxxi	BHU, Varanasi	2.592	0.72	0.40	0.00	0.00	0.40	0.411	0.411	<b>4.934</b>
lxxii	SVBPUA&T, Meerut (Neem, Karanja & Mahua)	2.592	0.72	0.00	0.00	0.36	0.40	0.407	0.407	<b>4.886</b>
<b>26</b>	<b>Uttrakhand</b>									<b>0.000</b>
lxxiii	GBPUA&T, Pantnagar (W. apricot & Cheura)	4.752	1.44	0.40	0.40	0.00	0.40	0.739	0.739	<b>8.870</b>
lxxiv	GBPUA&T, Pantnagar (Jatropha)	2.376	0.72	0.40	0.00	0.00	0.40	0.390	0.390	<b>4.676</b>
lxxv	GBPUA&T, Pantnagar (syn var jat)	2.112	0.72	0.50	0.00	0.00	0.400	0.373	0.373	<b>4.478</b>
lxxvi	Kumaun University, Nainital( WA& Ch)	4.752	1.44	0.40	0.40	0.00	0.40	0.739	0.739	<b>8.870</b>
lxxvii	FRI, Dehradun	5.184	1.44	0.40	0.20	0.00	0.40	0.762	0.762	<b>9.148</b>
lxxviii	ICFRE, Dehradun							0.000	0.000	<b>0.000</b>
<b>27</b>	<b>West Bengal</b>									<b>0.000</b>
lxxix	BCKV, Nadia	2.376	0.72	0.40	0.00	0.00	0.40	0.390	0.390	<b>4.676</b>
lxxx	UBKV, Cooch Behar	2.376	0.72	0.40	0.00	0.00	0.40	0.390	0.390	<b>4.676</b>
lxxxii	IIT, Kharagpur	2.376	0.72	0.00	0.00	0.00	0.75	0.385	0.385	<b>4.616</b>
lxxxii	IIT, Kharagpur (Biotech) (Value addition, Neem, Jatropha)	2.376	0.72	0.00	0.00	0.36	0.40	0.386	0.386	<b>4.628</b>
	<b>Grand Total</b>	<b>245.136</b>	<b>71.720</b>	<b>22.400</b>	<b>4.100</b>	<b>23.230</b>	<b>31.550</b>	<b>37.715</b>	<b>37.715</b>	<b>473.566</b>